August 2018 | Final Initial Study/Mitigated Negative Declaration

THOMAS JEFFERSON HIGH SCHOOL

Comprehensive Modernization Project
State Clearinghouse No. 2018051015

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1. Introduction

This Final Initial Study/Mitigated Negative Declaration (Final IS/MND) has been prepared in accordance with the California Environmental Quality Act (CEQA) as amended (Public Resources Code Section 21000 et seq.) and *CEQA Guidelines* (California Administrative Code Section 15000 et seq.). Documents relating to this IS/MND were cited and incorporated, in accordance with Sections 15148 and 15150 of the CEQA Guidelines. The incorporation eliminated the need for inclusion of voluminous engineering and technical reports within the IS/MND. All documents are available for review at the Los Angeles Unified School District (LAUSD) Office of Environmental Health & Safety located at 333 South Beaudry Avenue, 21st Floor, Los Angeles California, 90017, and online at **achieve.lausd.net/ceqa**.

1.1 CEQA REQUIREMENTS

Before the LAUSD Board of Education votes on whether or not to approve the Thomas Jefferson High School (Jefferson HS) Comprehensive Modernization Project (Project), it must certify that the Final IS/MND: a) has been completed in compliance with CEQA; and b) reflects LAUSD's independent judgment and analysis.

CEQA Guidelines Section 15071 specifies that the MND shall consist of the following:

- A brief description of the project, including a commonly used name for the project, if any;
- The location of the project, preferably shown on a map, and the name of the project proponent;
- A proposed finding that the project will not have a significant effect on the environment;
- An attached copy of the Initial Study documenting reasons to support the finding; and
- Mitigation measures, if any, included in the project to avoid potentially significant effects.

This Final IS/MND for the Project includes the following chapters:

- **Chapter 1**: Introduction and CEQA process
- **Chapter 2**: A list of persons, organizations, and public agencies commenting on the Draft IS/MND, the written comments received on the Draft IS/MND, and the written responses to each comment identified
- **Chapter 3**: Mitigation and Monitoring Program (MMRP)
- **Chapter 4**: IS/MND including revisions made to the Draft IS/MND in response to comments received or initiated by the Lead Agency
- **Chapter 5**: Errata

CEQA PROCESS

1.2.1 Public Participation Process

1.2.1.1 NOTICE OF INTENT OF THE DRAFT IS/MND

The Notice of Intent (NOI) to Adopt an IS/MND was posted on May 8, 2018 with the County Clerk in Los Angeles. The Draft IS/MND was circulated for a 30-day public review until June 7, 2018. The Draft IS/MND was circulated to federal, state, and local agencies, elected officials, parents of Jefferson HS students, residents, and interested parties requesting a copy of the Draft IS/MND. Copies of the Draft IS/MND were made available to the public at the following locations:

- LAUSD, Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017
- Thomas Jefferson High School Library, 1319 East 41st Street, Los Angeles, California 90011
- LAUSD, Local District - Central, 333 S. Beaudry Avenue, Los Angeles, CA 90017
- Vernon-Leon H. Washington Memorial Branch Library, 4504 S. Central Avenue, Los Angeles, CA 90011
- LAUSD Office of Environmental Health & Safety Web Site (achieve.lausd.net/ceqa.)

The Notice of Intent to Adopt an IS/MND was also posted in the classified section of the Los Angeles Daily News newspaper, posted in the classified section of the La Opinion newspaper, posted in a public location by the Registrar/Recorder of the Los Angeles County Clerk, and displayed at the project site during the public review and comment period. The State of California Governor's Office of Planning and Research Unit (the "State Clearinghouse") submitted copies of the Draft IS/MND to responsible and reviewing agencies.

1.2.2 Evaluation and Response to Comments

In accordance with Article 6 of the *CEQA Guidelines*, LAUSD, as the Lead Agency, was required to evaluate substantive environmental comments received on the Draft IS/MND. This response to comments section provides written responses to each comment received on the Draft IS/MND.

1.2.3 Final IS/MND Approval

LAUSD, as the CEQA Lead Agency, will submit this Final IS/MND to the Board of Education for adoption on September 11, 2018. The Final IS/MND also includes the Mitigation Monitoring and Reporting Program (MMRP), provided in Chapter 3 of this document. The MMRP, which provides the mitigation program for the Project, will also require adoption by the Board of Education, pursuant to California Public Resources Code Section 21081.6, thereby ensuring that all recommended mitigation measures identified for the proposed Project are implemented, and in so doing, minimizing the identified environmental effects.

1.2.4 Notice of Determination

Pursuant to Section 15094 of the *CEQA Guidelines*, LAUSD will file a Notice of Determination (NOD) with the Office of Planning and Research and Los Angeles County Clerk within five working days of Project approval.

2. Comment Letters and Response to Comments

The Draft IS/MND for the Thomas Jefferson High School Comprehensive Modernization Project was circulated for public review for 30 days (May 8, 2018 through June 7, 2018). LASUD received eight comment letters during the public review period from: the State of California Native American Heritage Commission, County of Los Angeles Department of Parks and Recreation, Los Angeles County Metropolitan Transportation Authority, Los Angeles Conservancy, South Coast Air Quality Management District, and three individuals. The comment letters are presented in the order listed in Table 2-1 and have been bracketed and assigned comment numbers. Each comment that requires a response within the letters has been assigned a number. Each comment has been recopied verbatim, or as close as possible to verbatim, from the original letter submitted.

TABLE 2-1
LIST OF COMMENT LETTERS RECEIVED

Letter Name	Commenter	Date of Letter
Federal, State and Local Agencies		
1	State of California, Native American Heritage Commission (NAHC)	May 31, 2018
2	County of Los Angeles, Department of Parks and Recreation	May 9, 2018
3	Los Angeles County Metropolitan Transportation Authority (Metro)	June 8, 2018
4	South Coast Air Quality Management District	June 5, 2018
Organizations and Individuals		
5	Los Angeles Conservancy	June 7, 2018
6	Everett L. Banks	May 22, 2018
7	Ofelia Gramayo	May 22, 2018
8	Johnny Sight	May 22, 2018

The comment letters are provided in the following section.

Comment Letter 1

STATE OF CALIFORNIA Edmund G. Brown Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
Environmental and Cultural Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone (916) 373-3710
Fax (916) 373-5471

May 31, 2018

Eimon Smith
Los Angeles Unified School District
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

Also sent via e-mail: eimon.smith@lausd.net

Re: SCH# 2018051015, Thomas Jefferson High School Comprehensive Modernization Project, City of Los Angeles; Los Angeles County, California

Dear Mr. Smith:

The Native American Heritage Commission (NAHC) has reviewed the Mitigated Negative Declaration (MND) prepared for the project referenced above. The review included the Introduction and Project Description; the Environmental Checklist and Analysis, section 4.5, Cultural Resources and section 4.17, Tribal Cultural Resources prepared by Environmental Science Associates for the Los Angeles Unified School District. We have the following concerns: 1-1

1. The Stipulation that no tribes have provided contact request letters under AB-52 is in error. Three of the five Gabrieleno tribes affiliated to the area have sent letters to the Los Angeles Unified School District (in 2015 and 2016) requesting project information and the opportunity to consult. In 2018, two of the referenced tribes re-sent their AB-52 letters to LAUSD after the last project in which this statement was included (Huntington Park High School Comprehensive Modernization Project, SCH# 2017081047, letter sent January 24, 2018). **THIS IS NOT THE FIRST TIME YOU HAVE BEEN NOTIFIED OF BEING OUT OF COMPLIANCE IN THIS MANNER.** 1-2
   - The NAHC further recommends that consultation outreach should be done for all of the tribes on the NAHC list, which is consistent with Best Practices. Please refer to: http://nahc.ca.gov/wp-content/uploads/2015/04/AB52TribalConsultationRequirementsAndBestPractices_Revised_3_9_16.pdf

Please contact me at gayle.totton@nahc.ca.gov or call (916) 373-3714 if you have any questions. 1-3

Sincerely,

Gayle Totton

Gayle Totton, B.S., M.A., Ph.D.
Associate Governmental Project Analyst

Attachment

cc: State Clearinghouse

ADDITIONAL INFORMATION

The California Environmental Quality Act (CEQA)[1], specifically Public Resources Code section 21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment.[2] If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an environmental impact report (EIR) shall be prepared.[3] In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources with the area of project effect (APE).

CEQA was amended in 2014 by Assembly Bill 52. (AB 52).[4] **AB 52 applies to any project for which a notice of preparation or a notice of negative declaration or mitigated negative declaration is filed on or after July 1, 2015.** AB 52 created a separate category for "tribal cultural resources"[5], that now includes "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment.[6] Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.[7] Your project may also be subject to **Senate Bill 18 (SB 18)** (Burton, Chapter 905, Statutes of 2004), Government Code 65352.3, if it also involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space. **Both SB 18 and AB 52 have tribal consultation requirements**. Additionally, if your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966[8] may also apply. 1-4

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws. 1-5

Agencies should be aware that AB 52 does not preclude agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52. For that reason, we urge you to continue to request Native American Tribal Consultation Lists and Sacred Lands File searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/. Additional information regarding AB 52 can be found online at http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf, entitled "Tribal Consultation Under AB 52: Requirements and Best Practices". 1-6

The NAHC recommends lead agencies consult with all California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources.

A brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments is also attached.

Pertinent Statutory Information:

Under AB 52:

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a **lead agency** shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice.

A **lead agency** shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project.[9] and **prior to the release of a negative declaration, mitigated negative declaration or environmental impact report**. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code § 65352.4 (SB 18).[10] 1-7

The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

a. Alternatives to the project.
b. Recommended mitigation measures.
c. Significant effects.[11]

1. The following topics are discretionary topics of consultation:

a. Type of environmental review necessary.
b. Significance of the tribal cultural resources.

[1] Pub. Resources Code § 21000 et seq.
[2] Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b); CEQA Guidelines Section 15064.5 (b)
[3] Pub. Resources Code § 21080 (d); Cal. Code Regs., tit. 14, § 15064 subd.(a)(1); CEQA Guidelines § 15064 (a)(1)
[4] Government Code 65352.3
[5] Pub. Resources Code § 21074
[6] Pub. Resources Code § 21084.2
[7] Pub. Resources Code § 21084.3 (a)
[8] 154 U.S.C. 300101, 36 C.F.R. § 800 et seq.
[9] Pub. Resources Code § 21080.3.1, subds. (d) and (e)
[10] Pub. Resources Code § 21080.3.1 (b)
[11] Pub. Resources Code § 21080.3.2 (a)

c. Significance of the project's impacts on tribal cultural resources.

If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. [12]

With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process **shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code sections 6254 (r) and 6254.10.** Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public.[13]

If a project may have a significant impact on a tribal cultural resource, **the lead agency's environmental document shall discuss** both of the following:

a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code section 21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource.[14]

Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached.[15]

Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code section 21080.3.2 **shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program**, if determined to avoid or lessen the impact pursuant to Public Resources Code section 21082.3, subdivision (b), paragraph 2, and shall be fully enforceable.[16]

If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, **the lead agency shall consider feasible mitigation** pursuant to Public Resources Code section 21084.3 (b).[17]

1-7 (cont.)

An environmental impact report **may not be certified**, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code sections 21080.3.1 and 21080.3.2 and concluded pursuant to Public Resources Code section 21080.3.2.
b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code section 21080.3.1 (d) and the tribe failed to request consultation within 30 days.[18]

This process should be documented in the Tribal Cultural Resources section of your environmental document.

Under SB 18:

Government Code § 65352.3 (a) (1) requires consultation with Native Americans on general plan proposals for the purposes of "preserving or mitigating impacts to places, features, and objects described § 5097.9 and § 5091.993 of the Public Resources Code that are located within the city or county's jurisdiction. Government Code § 65560 (a), (b), and (c) provides for consultation with Native American tribes on the open-space element of a county or city general plan for the purposes of protecting places, features, and objects described in Sections 5097.9 and 5097.993 of the Public Resources Code.

- SB 18 applies to **local governments** and requires them to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf
- Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe**.[19]
- There is no Statutory Time Limit on Tribal Consultation under the law.

[12] Pub. Resources Code § 21080.3.2 (a)
[13] Pub. Resources Code § 21082.3 (c)(1)
[14] Pub. Resources Code § 21082.3 (b)
[15] Pub. Resources Code § 21080.3.2 (b)
[16] Pub. Resources Code § 21082.3 (a)
[17] Pub. Resources Code § 21082.3 (e)
[18] Pub. Resources Code § 21082.3 (d)
[19] (Gov. Code § 65352.3 (a)(2)).

- Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research,[20] the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code sections 5097.9 and 5097.993 that are within the city's or county's jurisdiction.[21]
- Conclusion Tribal Consultation: Consultation should be concluded at the point in which:
    - The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    - Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation.[22]

1-7 (cont.)

NAHC Recommendations for Cultural Resources Assessments:

- Contact the NAHC for:
    - A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
    - A Native American Tribal Contact List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
        - The request form can be found at http://nahc.ca.gov/resources/forms/.
- Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
    - If part or the entire APE has been previously surveyed for cultural resources.
    - If any known cultural resources have been already been recorded on or adjacent to the APE.
    - If the probability is low, moderate, or high that cultural resources are located in the APE.
    - If a survey is required to determine whether previously unrecorded cultural resources are present.
- If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    - The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
    - The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

1-8

Examples of Mitigation Measures That May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

- Avoidance and preservation of the resources in place, including, but not limited to:
    - Planning and construction to avoid the resources and protect the cultural and natural context.
    - Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
- Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
    - Protecting the cultural character and integrity of the resource.
    - Protecting the traditional use of the resource.
    - Protecting the confidentiality of the resource.
- Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
- Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed.[23]
- Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated.[24]

The lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

- Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources.[25] In areas of identified

[20] pursuant to Gov. Code section 65040.2,
[21] (Gov. Code § 65352.3 (b)).
[22] (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).
[23] (Civ. Code § 815.3 (c)).
[24] (Pub. Resources Code § 5097.991).
[25] per Cal. Code Regs., tit. 14, section 15064.5(f) (CEQA Guidelines section 15064.5(f)).

archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.

- Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
- Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code section 7050.5, Public Resources Code section 5097.98, and Cal. Code Regs., tit. 14, section 15064.5, subdivisions (d) and (e) (CEQA Guidelines section 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

1-8 (cont.)

Comment No. 1-1

The Native American Heritage Commission (NAHC) has reviewed the Mitigated Negative Declaration (MND) prepared for the project referenced above. The review included the Introduction and Project Description; the Environmental Checklist and Analysis, section 4.5, Cultural Resources and section 4.17, Tribal Cultural Resources prepared by Environmental Science Associates for the Los Angeles Unified School District. We have the following concerns:

Response to Comment No. 1-1

This comment is introductory and provides general information regarding the Draft IS/MND. Responses to the comments contained in this letter are provided below in Responses to Comments Nos. 1-2 through 1-8.

Comment No. 1-2

1. The Stipulation that no tribes have provided contact request letters under AB-52 is in error. Three of the five Gabrieleno tribes affiliated to the area have sent letters to the Los Angeles Unified School District (in 2015 and 2016) requesting project information and the opportunity to consult. In 2018, two of the referenced tribes re-sent their AB-52 letters to LAUSD after the last project in which this statement was included (Huntington Park High School Comprehensive Modernization Project, SCH# 2017081047, letter sent January 24, 2018). THIS IS NOT THE FIRST TIME YOU HAVE BEEN NOTIFIED OF BEING OUT OF COMPLIANCE IN THIS MANNER.

   - The NAHC further recommends that consultation outreach should be done for all of the tribes on the NAHC list, which is consistent with Best Practices. Please refer to: http://nahc.ca.gov/wpcontent/uploads/2015/04/AB52TribalConsultationRequirementsAndBestPractices_Revised_3_9_16.pdf

Response to Comment No. 1-2

As outlined in Section 4.18 Tribal Cultural Resources of the Draft IS/MND, the LAUSD satisfied the requirements of Assembly Bill 52, which requires, the lead agency to begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed Project prior to the release of the CEQA if:

> (1) the California Native American tribe requested to the lead agency, in writing, to be informed by the lead agency through formal notification of proposed projects in the geographic area that is traditionally and culturally affiliated with the tribe, and
>
> (2) the California Native American tribe responds, in writing, within 30 days of receipt of the formal notification, and requests the consultation. When responding to the lead agency, the California Native American tribe shall designate a lead contact person.

Further, the lead agency is to provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project.

On January 25, 2016, the LAUSD contacted the NAHC to request a search of the Sacred Lands File (SLF). The NAHC responded to the request in a letter dated January 28, 2016 (Appendix C2 of the IS/MND). The SLF results indicate that no Native American cultural resources are known to be located within the Project Site. The letter also included a list of Native American contacts. Contact letters to all individuals and tribes indicated by the NAHC as having affiliation with the Project Site were prepared and mailed to five tribes on February 4, 2016. These tribes were: Gabrieleño Band of Mission Indians – Kizh Nation, Gabrielino Tongva Indians of California Tribal Council, Gabrielino Tongva Tribe, Gabrielino/Tongva Nation, and the Gabrieleno/Tongva San Gabriel Band of Mission Indians. The letters described the proposed Project and included a map depicting the location of the Project Site. Recipients were requested to reply with any information they were able to share about Native American resources that might be affected by the proposed Project. ***To date, no responses or requests for consultation have been received by the LAUSD.***

Subsequently, the LAUSD sent the Notice of Intent to adopt an IS/MND to the same five tribes in May 2018 prior to the start of the public review period for the Project. ***No letters from any of these tribes were received by LAUSD in response to this outreach.***

As discussed during a conference call with the NAHC on October 18, 2017, the District's actions are consistent with AB 52. Further, the District completed these same practices for the Huntington Park High School Comprehensive Modernization Project and engaged in a successful consultation process with one Tribe for that project. The process is documented in the Environmental Impact Report for the Huntington Park High School Comprehensive Modernization Project, SCH# 2017081047.

Comment No. 1-3

Please contact me at gayle.totton@nahc.ca.gov or call (916) 373-3714 if you have any questions.

Response to Comment No. 1-3

This is a concluding comment providing the State of California Native American Heritage Council's contact information. The comment is noted and will be provided to the LAUSD Board of Education (decision-making body) for review and consideration.

Comment No. 1-4

ADDITIONAL INFORMATION

The California Environmental Quality Act (CEQA)[1] specifically Public Resources Code section 21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource is a project

[1] Pub. Resources Code § 21000 et seq.

that may have a significant effect on the environment.[2] If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an environmental impact report (EIR) shall be prepared[3]. In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources with the area of project effect (APE).

CEQA was amended in 2014 by Assembly Bill 52. (AB 52).[4] AB 52 applies to any project for which a notice of preparation or a notice of negative declaration or mitigated negative declaration is filed on or after July 1, 2015. AB 52 created a separate category for "tribal cultural resources"[5] that now includes "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment.[6] Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.[7] Your project may also be subject to Senate Bill 18 (SB 18) (Burton, Chapter 905, Statutes of 2004), Government Code 65352.3, if it also involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space. Both SB 18 and AB 52 have tribal consultation requirements. Additionally, if your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966[8] may also apply.

Response to Comment No. 1-4

This comment provides a description of the legal requirements under CEQA. The text also provides a description of relatively new legal requirements under CEQA, to consider potential impacts to tribal cultural resources. Section 4.18, Tribal Cultural Resources, page 149 of the Draft IS/MND provides a separate section of the CEQA Environmental Checklist related to tribal cultural resources.

The comment also provides a description of SB 18. The Project is not subject to SB 18, as the Project does not involve the adoption of or amendment to a general plan. Specific plan, or the designation of open space.

Comment No. 1-5

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

[2] Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b); CEQA Guidelines Section 15064.5 (b)
[3] Pub. Resources Code § 21080 (d); Cal. Code Regs., tit. 14, § 15064 subd. (a)(1); CEQA Guidelines § 15064 (a)(1)
[4] Government Code 65352.3
[5] Pub. Resources Code § 21074
[6] Pub. Resources Code § 21084.2
[7] Pub. Resources Code § 21084.3 (a)
[8] 154 U.S.C. 300101, 36 C.F.R. § 800 et seq.

Response to Comment No. 1-5

This comment is not related to an environmental issue in the Draft IS/MND, and no further comment is required. Nevertheless, LAUSD's legal counsel was consulted regarding this Project.

Comment No. 1-6

Agencies should be aware that AB 52 does not preclude agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52. For that reason, we urge you to continue to request Native American Tribal Consultation Lists and Sacred Lands File searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/. Additional information regarding AB 52 can be found online at http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf, entitled "Tribal Consultation Under AB 52: Requirements and Best Practices".

The NAHC recommends lead agencies consult with all California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources.

A brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments is also attached

Response to Comment No. 1-6

This comment is not related to an environmental issue in the Draft IS/MND, and no further comment is required. LAUSD appreciates the information provided by NAHC and the list of suggestions and resources provided, and it has incorporated these recommendations and practices into this Project.

As described in Section 4.18, Tribal Cultural Resources page 149 of the Draft IS/MND, LAUSD requested a Native American Tribal Consultation List and Sacred Lands File search from the NAHC. LAUSD prepared letters to all individuals and groups indicated by the NAHC as having affiliation with the Project Site and were mailed out on February 4, 2016.

Comment No. 1-7

Pertinent Statutory Information:

Under AB 52:

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice. A lead agency shall begin the consultation process within 30 days of receiving a request for

consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project.[9] and prior to the release of a negative declaration, mitigated negative declaration or environmental impact report. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code § 65352.4 (SB 18).[10]The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

a. Alternatives to the project.

b. Recommended mitigation measures.

c. Significant effects.[11]

1. The following topics are discretionary topics of consultation:

   a. Type of environmental review necessary.

   b. Significance of the tribal cultural resources.

   c. Significance of the project's impacts on tribal cultural resources.

If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency.[12]

With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code sections 6254 (r) and 6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public.[13] If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

a. Whether the proposed project has a significant impact on an identified tribal cultural resource.

b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code section 21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource.[14]

Consultation with a tribe shall be considered concluded when either of the following occurs:

[9] Pub. Resources Code § 21080.3.1, subds. (d) and (e)
[10] Pub. Resources Code § 21080.3.1 (b)
[11] Pub. Resources Code § 21080.3.2 (a)
[12] Pub. Resources Code § 21080.3.2 (a)
[13] Pub. Resources Code § 21082.3 (c)(1)
[14] Pub. Resources Code § 21082.3 (b)

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached.[15]

Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code section 21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code section 21082.3, subdivision (b), paragraph 2, and shall be fully enforceable.[16] If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code section 21084.3 (b).[17]

An environmental impact report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code sections 21080.3.1 and 21080.3.2 and concluded pursuant to Public Resources Code section 21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code section 21080.3.1 (d) and the tribe failed to request consultation within 30 days.[18] This process should be documented in the Tribal Cultural Resources section of your environmental document.

Under SB 18:

Government Code § 65352.3 (a) (1) requires consultation with Native Americans on general plan proposals for the purposes of "preserving or mitigating impacts to places, features, and objects described § 5097.9 and § 5091.993 of the Public Resources Code that are located within the city or county's jurisdiction. Government Code § 65560 (a), (b), and (c) provides for consultation with Native American tribes on the open-space element of a county or city general plan for the purposes of protecting places, features, and objects described in Sections 5097.9 and 5097.993 of the Public Resources Code.

- SB 18 applies to local governments and requires them to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific

[15] Pub. Resources Code § 21080.3.2 (b)
[16] Pub. Resources Code § 21082.3 (a)
[17] Pub. Resources Code § 21082.3 (e)
[18] Pub. Resources Code § 21082.3 (d)

plan, or the designation of open space. Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf

- Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.[19]
- There is no Statutory Time Limit on Tribal Consultation under the law.
- Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research,[20] the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code sections 5097.9 and 5097.993 that are within the city's or county's jurisdiction.[21]
- Conclusion Tribal Consultation: Consultation should be concluded at the point in which:
- The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
- Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation.[22]

Response to Comment No. 1-7

The above comment is an overview of pertinent statutory information provided by the commenter. The District's compliance with AB 52 is documented in Section 4.18, Tribal Cultural Resources (page 149) of the Draft IS/MND.

Comment No. 1-8

NAHC Recommendations for Cultural Resources Assessments:

Contact the NAHC for:

- A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
- A Native American Tribal Contact List of appropriate tribes for consultation concerning the

[19] (Gov. Code § 65352.3 (a)(2)).
[20] pursuant to Gov. Code section 65040.2
[21] (Gov. Code § 65352.3 (b)).
[22] (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

  - The request form can be found at http://nahc.ca.gov/resources/forms/.

- Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
  - If part or the entire APE has been previously surveyed for cultural resources.
  - If any known cultural resources have been already been recorded on or adjacent to the APE.
  - If the probability is low, moderate, or high that cultural resources are located in the APE.
  - If a survey is required to determine whether previously unrecorded cultural resources are present.
- If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
  - The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
  - The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

Examples of Mitigation Measures That May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

- Avoidance and preservation of the resources in place, including, but not limited to:
  - Planning and construction to avoid the resources and protect the cultural and natural context.
  - Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
- Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
  - Protecting the cultural character and integrity of the resource.
  - Protecting the traditional use of the resource.
  - Protecting the confidentiality of the resource.
- Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
- Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC

to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed.[23]

- Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated.[24]

The lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources.[25] In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.

- Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
- Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code section 7050.5, Public Resources Code section 5097.98, and Cal. Code Regs., tit. 14, section 15064.5, subdivisions (d) and (e) (CEQA Guidelines section 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

Response to Comment No. 1-8

This comment provides recommendations for Cultural Resources Assessments. This comment does not provide a specific environmental issue in the Draft IS/MND, and no further comment is required.

LAUSD appreciates the information provided by NAHC and the list of suggestions and resources provided, and it has already incorporated the applicable recommendations into the Draft IS/MND and Archaeological and Paleontological Resources Report provided in Appendix C2 of the Draft IS/MND.

[23] (Civ. Code § 815.3 (c)).
[24] (Pub. Resources Code § 5097.991).
[25] per Cal. Code Regs., tit. 14, section 15064.5(f) (CEQA Guidelines section 15064.5(f)).

COUNTY OF LOS ANGELES
DEPARTMENT OF PARKS AND RECREATION
"Parks Make Life Better!"
John Wicker, Director Norma E. Garcia, Chief Deputy Director

May 9, 2018

Ms. Eimon Smith
CEQA Project Manager
Los Angeles Unified School District
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

Dear Ms. Smith:

NOTICE OF INTENT TO ADOPT AN INITIAL STUDY/MITIGATED NEGATIVE DECLARATION (IS/MND) AND NOTICE OF PUBLIC COMMENT PERIOD FOR REMOVAL ACTION WORKPLAN THOMAS JEFFERSON HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

The above mentioned project has been reviewed for potential impacts on the facilities of the Department of Parks and Recreation. The project will not impact any parks and recreation facilities and we have no comments. 2-1

Thank you for including this Department in the review of this document. If you have any questions, please contact me at jyom@parks.lacounty.gov or (626) 588-5311. 2-2

Sincerely,

Julie Yom, AICP
Park Planner

JY:jy

c: Parks and Recreation (K. King, C. Lau)

Comment No. 2-1

The above mentioned project has been reviewed for potential impacts on the facilities of the Department of Parks and Recreation. The project will not impact any parks and recreation facilities and we have no comments.

Response to Comment No. 2-1

This comment states the County of Los Angeles, Department of Parks and Recreation's review of the Project as proposed in the Draft IS/MND and finding regarding the proposed Project. The comment is noted and will be provided to the decision-making body.

Comment No. 2-2

Thank you for including this Department in the review of this document. If you have any questions, please contact me at jyom@parks.lacounty.gov or (626) 588-5311.

Response to Comment No. 2-2

This is a concluding comment providing the County of Los Angeles, Department of Parks and Recreation's contact information. The comment is noted and will be provided to the decision–making body.

Metro

Los Angeles County
Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952

213.922.2000 Tel
metro.net

June 8th, 2018

Eimon Smith
Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

RE: Thomas Jefferson High School Comprehensive Modernization Project – Notice of Intent to Adopt an Initial Study/Mitigated Negative Declaration and Notice of Public Comment Period for Removal of Action Work Plan

Dear Ms. Smith:

Thank you for the opportunity to comment on the Notice of Intent to Adopt an Initial Study/Mitigated Negative Declaration and Notice of Public Comment Period for Removal of Action Work Plan for the Thomas Jefferson High School Comprehensive Modernization Project, located at 1319 East 41st Street in the City of Los Angeles (Project). Metro is committed to working with stakeholders across the County to support the development of transit oriented communities (TOCs). Transit Oriented Communities are places (such as corridors or neighborhoods) that, by their design, allow people to drive less and access transit more. The Los Angeles County Metropolitan Transportation Authority (Metro) looks forward to collaborating with local municipalities, developers, and other stakeholders in their land use planning and development efforts to support TOCs across Los Angeles County. 3-1

The purpose of this letter is to briefly describe the proposed Project, based on recent notifications, and convey recommendations from Metro concerning issues that are germane to our agency's statutory responsibility in relation to our facilities and services that may be affected by the proposed Project.

Project Description

The proposed Project consists of a comprehensive modernization of the campus, which includes demolition, construction, and renovation activities. Specific improvements include: the construction of new classroom buildings, a lunch pavilion, quad, baseball field/softball field, and gymnasium, and the renovation of several buildings, such as the existing Administrative, Academic, Cafeteria and Auditorium buildings. 3-2

Metro Comments

Metro Bus Stop Adjacency

Metro Bus Lines 55 and 335 operate on Compton Avenue, adjacent to the proposed Project. There is one Metro Bus stop on the corner of Compton Avenue and East 41st Street, directly adjacent to the proposed Project. The following comments relate to bus operations and the bus stop: 3-3

1. Impact Analysis: Although the Project is not expected to result in any long-term impacts on transit, the Project Sponsor should be aware of the bus facilities and services that are present. With an anticipated increase in traffic during and after construction, Metro encourages any impact analysis to include potential effects on the Metro Bus lines. Potential impacts could include construction traffic, operation of and shipment/deliveries to the completed Project, and temporary or permanent bus service rerouting. 3-4

2. Final Bus Stop Condition: The existing Metro bus stop must be maintained as part of the final Project. During construction, the stop must be maintained or relocated consistent with the needs of Metro Bus operations. Final design of the bus stop and surrounding sidewalk area must be compliant with the Americans with Disabilities Act (ADA) and allow passengers with disabilities a clear path of travel to the bus stop from the proposed development. 3-5

3. Bus Stop Access & Enhancements: Metro encourages the installation of bus shelters with benches, wayfinding signage, enhanced crosswalks, and ADA-compliant ramps, as well as pedestrian lighting and a continuous canopy of shade trees in paths of travel to access bus stops and other amenities that improve safety and comfort for transit riders. The City should consider requiring the installation of such amenities as part of the conditions of approval for the Project. 3-6

4. Driveways: Driveways accessing parking and loading at the Project site should be located away from bus stops, and be designed and configured to avoid potential conflicts with bus services and pedestrian traffic. Vehicular driveways should not be located in or directly adjacent to areas that are likely to be used as waiting areas for transit riders. 3-7

5. Wayfinding: Any temporary or permanent wayfinding signage with content referencing Metro services, or featuring the Metro brand and/or associated graphics (such as bus or rail pictograms) requires review and approval by Metro Art & Design. Please contact Lance Glover at 213-922-2360 or GloverL@metro.net. 3-8

6. Bus Operations Contacts: Please contact the Metro Bus Operations Control Special Events Coordinator at 213-922-4632 and Metro's Stops and Zones Department at 213-922-5190 with any questions and at least 30 days in advance of initiating construction activities. Other municipal buses may also be impacted and should be included in construction outreach efforts. 3-9

Active Transportation

Metro encourages the promotion of bicycle use through adequate short-term bicycle parking, such as ground level bicycle racks, as well as secure, access-controlled, enclosed long-term bicycle parking for students, faculty, and staff. Bicycle parking facilities should be designed with best practices in mind, 3-10

including: highly visible siting, effective surveillance, and equipment installed with preferred spacing dimensions to be safely and conveniently accessed. Additionally, the Project sponsor should help facilitate safe and convenient connections for pedestrians, people riding bicycles, and transit users to/from the campus and nearby destinations. The Project is also encouraged to support these connections with wayfinding signage inclusive of all modes of transportation. 3-10 (cont.)

If you have any questions regarding this response, please contact Eddi Zepeda by phone at 213-418-3484, by email at DevReview@metro.net, or by mail at the following address: 3-11

Metro Development Review
One Gateway Plaza MS 99-23-4
Los Angeles, CA 90012-2952

Sincerely,

Georgia Sheridan

Georgia Sheridan, AICP
Senior Manager, Transit Oriented Communities

Comment No. 3-1

Thank you for the opportunity to comment on the Notice of Intent to Adopt an Initial Study/Mitigated Negative Declaration and Notice of Public Comment Period for Removal of Action Work Plan for the Thomas Jefferson High School Comprehensive Modernization Project, located at 1319 East 41st Street in the City of Los Angeles (Project). Metro is committed to working with stakeholders across the County to support the development of transit oriented communities (TOCs). Transit Oriented Communities are places (such as corridors or neighborhoods) that, by their design, allow people to drive less and access transit more. The Los Angeles County Metropolitan Transportation Authority (Metro) looks forward to collaborating with local municipalities, developers, and other stakeholders in their land use planning and development efforts to support TOCs across Los Angeles County.

The purpose of this letter is to briefly describe the proposed Project, based on recent notifications, and convey recommendations from Metro concerning issues that are germane to our agency's statutory responsibility in relation to our facilities and services that may be affected by the proposed Project.

Response to Comment No. 3-1

This comment is an introduction to Metro and its comment letter. Responses to individual comments contained in the letter are provided in Responses to Comments Nos. 3-3 through 3-11.

Comment No. 3-2

Project Description

The proposed Project consists of a comprehensive modernization of the campus, which includes demolition, construction, and renovation activities. Specific improvements include: the construction of new classroom buildings, a lunch pavilion, quad, baseball field/softball field, and gymnasium, and the renovation of several buildings, such as the existing Administrative, Academic, Cafeteria and Auditorium buildings.

Response to Comment No. 3-2

This comment is introductory and provides general information summarizing the proposed Project description. The IS/MND described the Project in Chapter 3, Project Description. As this comment provides information that is already provided in the IS/MND, no further response is required.

Comment No. 3-3

Metro Bus Stop Adjacency

Metro Bus Lines 55 and 335 operate on Compton Avenue, adjacent to the proposed Project. There is one Metro Bus stop on the corner of Compton Avenue and East 41st Street, directly adjacent to the proposed Project. The following comments relate to bus operations and the bus stop:

Response to Comment No. 3-3

This comment lists the two bus lines that operate on the eastern boundary of the Project Site. These bus lines are acknowledged as part of the existing environment in Section 2.1, Project Location, of the IS/MND. The bus stop located on the corner of Compton Avenue and East 41st Street, is also acknowledged in Section 4.17, Transportation and Circulation, of the IS/MND. This comment serves as an introduction to Metro's concerns regarding bus stop adjacency. Responses to the comments regarding bus stop adjacency are provided below in Responses 3-4 through 3-9.

Comment No. 3-4

1. Impact Analysis: Although the Project is not expected to result in any long-term impacts on transit, the Project Sponsor should be aware of the bus facilities and services that are present. With an anticipated increase in traffic during and after construction, Metro encourages any impact analysis to include potential effects on the Metro Bus lines. Potential impacts could include construction traffic, operation of and shipment/deliveries to the completed Project, and temporary or permanent bus service rerouting.

Response to Comment No. 3-4

This comment encourages an analysis of traffic impacts on access to the Metro Bus lines. In Section 4.17, Transportation and Circulation, the IS/MND included a discussion of the construction and operational impacts on transportation and Metro services near the Project Site. This discussion was consistent with the intent of the comment, and demonstrated that the Project would not be expected to result in long-term impacts on transit. The traffic and transit analysis format contained in this IS/MND was also reviewed and approved by LADOT for the proposed Project. This comment is noted and will be provided to the decision-making body for consideration.

Comment No. 3-5

2. Final Bus Stop Condition: The existing Metro bus stop must be maintained as part of the final Project. During construction, the stop must be maintained or relocated consistent with the needs of Metro Bus operations. Final design of the bus stop and surrounding sidewalk area must be compliant with the Americans with Disabilities Act (ADA) and allow passengers with disabilities a clear path of travel to the bus stop from the proposed development.

Response to Comment No. 3-5

The comment states that during construction, the Metro stop must be maintained or relocated consistent with the needs of Metro Bus operations. As discussed in Section 4.17, Transportation and Circulation, of the Draft IS/MND, during construction, the existing bus stops will be avoided by construction activities. As discussed in the Draft IS/MND, the proposed Project will not entail off-site activities. In addition, consistent with SC-T-4 as included in the Draft IS/MND, the District would coordinate with the local agencies as necessary and the applicable transportation related safety measures shall be implemented during construction. Furthermore, the Project would be constructed and operated in compliance with the ADA.

Comment No. 3-6

3. Bus Stop Access & Enhancements: Metro encourages the installation of bus shelters with benches, wayfinding signage, enhanced crosswalks, and ADA-compliant ramps, as well as pedestrian lighting and a continuous canopy of shade trees in paths of travel to access bus stops and other amenities that improve safety and comfort for transit riders. The City should consider requiring the installation of such amenities as part of the conditions of approval for the Project.

Response to Comment No. 3-6

This comment encourages the Project to implement improvements and enhancements as a condition of Project approval. As discussed in Section 4.17, Transportation and Circulation, on page 143 of the Draft IS/MND, the proposed Project would not eliminate any bus stops or prevent the use of any roads on which public transit routes operate. As such, the Draft IS/MND concluded that the proposed Project would have a less-than-significant impact on transit facilities and operations, and no mitigation measures are required. Further, the suggested enhancements are outside of LAUSD's jurisdiction.

Comment No. 3-7

4. Driveways: Driveways accessing parking and loading at the Project site should be located away from bus stops, and be designed and configured to avoid potential conflicts with bus services and pedestrian traffic. Vehicular driveways should not be located in or directly adjacent to areas that are likely to be used as waiting areas for transit riders.

Response to Comment No. 3-7

As discussed in Section 3.1.3, Site Access, Circulation, and Parking, on page 34 of the Draft IS/MND, the proposed Project would not change the school entrances or drop-off/pickup zone. The number and location of driveways crossing sidewalks would not change. Furthermore, as discussed in Section 4.17, Transportation and Circulation, on page 143 of the Draft IS/MND, the proposed Project would not eliminate any bus stops or prevent the use of any roads on which public transit routes operate. School enrollment would remain the same with implementation of the proposed Project, so there would be no permanent increase in pedestrian or vehicular traffic generated by the school.

Comment No. 3-8

5. Wayfinding: Any temporary or permanent wayfinding signage with content referencing Metro services, or featuring the Metro brand and/or associated graphics (such as bus or rail pictograms) requires review and approval by Metro Art & Design. Please contact Lance Glover at 213-922-2360 or GloverL@metro.net.

Response to Comment No. 3-8

This comment requires that wayfinding that includes Metro content must conform to Metro's Signage Standards. This comment does not concern any environmental issue or information addressed or contained in the IS/MND. Therefore, no further response is required. However, this comment is noted, and will be presented to the decision–making body for their review and consideration.

Comment No. 3-9

6. Bus Operations Contacts: Please contact the Metro Bus Operations Control Special Events Coordinator at 213-922-4632 and Metros Stops and Zones Department at 213-922-5190 with any questions and at least 30 days in advance of initiating construction activities. Other municipal buses may also be impacted and should be included in construction outreach efforts.

Response to Comment No. 3-9

This comment requests that Metro be contacted with any questions at least 30 days in advance of initiating construction activities. This comment is acknowledged and no further response is required.

Comment No. 3-10

Active Transportation

Metro encourages the promotion of bicycle use through adequate short-term bicycle parking, such as ground level bicycle racks, as well as secure, access-controlled, enclosed long-term bicycle parking for students, faculty, and staff. Bicycle parking facilities should be designed with best practices in mind, including: highly visible siting, effective surveillance, and equipment installed with preferred spacing dimensions to be safely and conveniently accessed. Additionally, the Project sponsor should help facilitate safe and convenient connections for pedestrians, people riding bicycles, and transit users to/from the campus and nearby destinations. The Project is also encouraged to support these connections with wayfinding signage inclusive of all modes of transportation.

Response to Comment No. 3-10

As discussed in Section 4.17, Transportation and Circulation, on page 143 of the Draft IS/MND, students, faculty and staff can currently travel to school using public transit routes, bicycles and by walking. There are sidewalks on all streets surrounding the school. These conditions would continue unchanged with implementation of the proposed Project. In addition, LAUSD encourages ride-sharing programs for students and teachers, as well as walking and riding bicycles to school. Furthermore, as discussed in Section 3.1.3, Site Access, Circulation, and Parking, on page 34 of the Draft IS/MND, the proposed Project will provide for alternative transportation storage such as racks for bikes, scooters, and skateboards. The suggestion that wayfinding signage be incorporated as part of the proposed Project is noted and will be provided to the decision-making body for consideration.

Comment No. 3-11

If you have any questions regarding this response, please contact Eddi Zepeda by phone at 213-418- 3484, by email at DevReview@metro.net, or by mail at the following address:

Metro Development Review
One Gateway Plaza MS 99-23-4
Los Angeles, CA 90012-2952

Response to Comment No. 3-11

This comment is a conclusion to the letter and provides contact information at Metro if further questions arise. The comment is noted and will be provided to the Board of Education.

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL AND USPS: May 29, 2018
CEQA-comments@lausd.net
Eimon Smith, CEQA Project Manager
Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

Mitigated Negative Declaration (MND) for the Proposed Thomas Jefferson High School Comprehensive Modernization Project

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final MND.

SCAQMD Staff's Summary of Project Description

The Lead Agency proposes to demolish a number of existing buildings totaling 116,000 square and build 110,000 square feet of new buildings in addition to other improvements on 18.9 acres (Proposed Project). Construction is expected to take 5.5 years[1]. 4-1

SCAQMD Comments

One of the Air Quality Standard Conditions of Approval for the Proposed Project is to require, among others, "use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower[2]" (SC-AQ-4). This means that construction equipment rated between 50 and 750 horsepower will be required to meet *either* Tier 3 *or* Tier 4 emission standards (*Emphasis added*). However, in other parts of the MND (e.g., Pages 54, 56, and 62), the Lead Agency stated that off-road construction equipment will be compliant with Tier 4 engine standards (not either Tier 3 or Tier 4 engines). Additionally, Tier 4 construction equipment was used in CalEEMod (version 2016.3.2) to quantify the Proposed Project's construction emissions and DPM emissions[3]. To ensure consistency with the requirements under SC-AQ-4, which, as it is currently written, allows the use of Tier 3 engines, and to analyze a worst-case construction impact scenario, it is recommended that the Lead Agency revise the air quality analysis by modeling emissions from construction equipment with Tier 3 engines. Alternatively, SCAQMD staff recommends that the Lead Agency go beyond the SC-AQ-4 standard by requiring Tier 4 engines only. 4-2

Closing

Pursuant to CEQA Guidelines Section 15074, prior to approving the Proposed Project, the Lead Agency shall consider the MND for adoption together with any comments received during the public review process. Please provide the SCAQMD with written responses to all comments contained herein prior to the adoption of the Final MND. When responding to issues raised in the comments, response should provide sufficient details giving reasons why specific comments and suggestions are not accepted. There should be good faith, reasoned analysis in response. Conclusory statements unsupported by factual 4-3

[1] MND. Page 26.
[2] MND. Page 52.
[3] MND. Appendix A, *Air Quality Emissions Calculation Worksheets*, to Appendix A: *Air Quality Technical Report*. PDF Page 74 of 2379.

information do not facilitate the purpose and goal of CEQA on public disclosure and are not meaningful or useful to decision makers and the public who are interested in the Proposed Project. 4-3 (cont.)

SCAQMD staff is available to work with the lead agency to address these issues and any other questions that may arise. Please contact me at lsun@aqmd.gov if you have any questions regarding the enclosed comments.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
LAC180508-05
Control Number

Comment No. 4-1

SCAQMD Staff's Summary of Project Description

The Lead Agency proposes to demolish a number of existing buildings totaling 116,000 square feet and build 110,000 square feet of new buildings in addition to other improvements on 18.9 acres (Proposed Project). Construction is expected to take 5.5 years[26].

Response to Comment No. 4-1

The commenter summarizes the project description and the construction period. The Draft IS/MND described the Project in Section 3, Project Description. Responses to the comments contained in this letter are provided below in Response to Comments Nos 4-2 and 4-3.

Comment No. 4-2

SCAQMD Comments

One of the Air Quality Standard Conditions of Approval for the Proposed Project is to require, among others, "use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower"[27] (SC-AQ-4). This means that construction equipment rated between 50 and 750 horsepower will be required to meet either Tier 3 or Tier 4 emission standards (Emphasis added). However, in other parts of the MND (e.g., Pages 54, 56, and 62), the Lead Agency stated that off-road construction equipment will be compliant with Tier 4 engine standards (not either Tier 3 or Tier 4 engines). Additionally, Tier 4 construction equipment was used in CalEEMod (version 2016.3.2) to quantify the Proposed Project's construction emissions and DPM emissions[28]. To ensure consistency with the requirements under SC-AQ-4, which, as it is currently written, allows the use of Tier 3 engines, and to analyze a worst-case construction impact scenario, it is recommended that the Lead Agency revise the air quality analysis by modeling emissions from construction equipment with Tier 3 engines. Alternatively, SCAQMD staff recommends that the Lead Agency go beyond the SC-AQ-4 standard by requiring Tier 4 engines only.

Response to Comment No. 4-2

The commenter states that Air Quality Standard Condition of Approval SC-AQ-4 requires that all construction equipment between 50 and 750 horsepower be rated by the United States Environmental Protection Agency as having Tier 3 or Tier 4 emission limits. The air quality analysis for the proposed Project assumes Tier 4-compliant equipment would be used. Because SC-AQ-4 allows either Tier 3- or Tier 4-compliant equipment, the commenter requests that either (1) emissions calculations be updated to reflect the use of Tier 4 engines; or (2) the Lead Agency require Tier 4 engines only.

[26] MND. Page 26
[27] MND. Page 52.
[28] MND. Appendix A, Air Quality Emissions Calculation Worksheets, to Appendix A: Air Quality Technical Report. PDF Page 74 of 2379.

The air quality analysis for the proposed Project assumes Tier 4-compliant equipment would be used. As shown in Table 4.3-2, Table 4.3-2, and 4.3-5 of the MND, maximum regional, localized, and health risk impacts associated with construction of the Project would be well below allowable thresholds. The Lead Agency will require that Tier 4 compliant equipment be used where such equipment is available to ensure maximum reduction in emissions. In the event that specific specialized equipment that is rated Tier 4 is not available, Tier 3 would potentially be used. It is not anticipated that the use of a mix of Tier 3 and Tier 4 equipment would result in the exceedance of regional, local, or health risk thresholds. Additionally, SC-AQ-4 requires that construction equipment implement emission reduction measures including utilizing ultra-low sulfur diesel fuel, electrical power generators where feasible, electric or alternatively fueled equipment if feasible, and low-emission on-road construction fleet vehicles, further reducing impacts. With implementation of LAUSD Standard Conditions of Approval (specifically, SC-AQ-2, SC-AQ-3, and SC-AQ-4), provide a range of additional conditions that would be implemented into the Project to further reduce potential impacts. With the incorporation of these conditions, construction emissions would be less than significant, as determined in the MND. No mitigation measures are required to reduce emissions to less-than-significant levels.

Comment No. 4-3

Closing

Pursuant to CEQA Guidelines Section 15074, prior to approving the Proposed Project, the Lead Agency shall consider the MND for adoption together with any comments received during the public review process. Please provide the SCAQMD with written responses to all comments contained herein prior to the adoption of the Final MND. When responding to issues raised in the comments, response should provide sufficient details giving reasons why specific comments and suggestions are not accepted. There should be good faith, reasoned analysis in response. Conclusory statements unsupported by factual information do not facilitate the purpose and goal of CEQA on public disclosure and are not meaningful or useful to decision–making body and the public who are interested in the Proposed Project.

SCAQMD staff is available to work with the lead agency to address these issues and any other questions that may arise. Please contact me at lsun@aqmd.gov if you have any questions regarding the enclosed comments.

Response to Comment No. 4-3

The commenter requests that written responses to their comments be provided. This comment is a conclusion to the letter and provides contact information at SCAQMD if further questions arise. The IS/MND has been prepared in accordance with Section CEQA Guidelines Section 15074. While CEQA does not require the lead agency to respond to comments received during the public review period for an MND, the District has adopted a policy of providing written responses to each comment received during the public review period for MNDs. The substantial evidence for the finding that the proposed Project would have a significant effect on the environment, is documented in the IS/MND and the technical appendices. The comment is noted and pursuant to Section 15074, the IS/MND, technical appendices, and all comments will be provided to the decision makers for consideration prior to voting on the proposed Project.

Comment Letter 5

LOS ANGELES
CONSERVANCY

523 West Sixth Street, Suite 826
Los Angeles, CA 90014

213 623 2489 OFFICE
213 623 3909 FAX
laconservancy.org

June 7, 2018

Ms. Eimon Smith, CEQA Project Manager
Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: CEQA-comments@lausd.net

RE: Jefferson High School Comprehensive Modernization Project (Jefferson HS Comp Mod) MND

Dear Ms. Smith:

On behalf of the Los Angeles Conservancy, thank you for the opportunity to comment on the Mitigated Negative Declaration (MND) for the Jefferson High School Comprehensive Modernization Project. 5-1

The Conservancy appreciates LAUSD's approach with the comprehensive modernization of Jefferson High which combines the rehabilitation and upgrade of historic buildings with new construction, demonstrating that significant historic resources can and should be retained as part of a successful campus modernization project. 5-2

While this project will result in the loss of two contributors to the California Register-listed Jefferson High School Historic District, the Power House (Building 8) and the Mechanical Arts Building (Building 11), the Conservancy concurs that the campus will retain eligibility as a historic district and resource listed in the California Register. 5-3

The design of the proposed new construction, including the new Athletics Building and new Classroom Building, fits with the scale and massing of the historic buildings on campus and references their Streamline Moderne architecture while being clearly differentiated. Additionally, their siting protects the spatial relationships of the historic district's contributing structures. 5-4

While the interior of the library will be deconstructed and rebuilt, we are pleased to see that LAUSD has taken steps to protect, conserve and reinstall the Ross Dickinson mural once renovations of the Library are complete, with work to be conducted by a conservation artist and guided by a conservation plan. 5-5

We did note a level of ambiguity regarding the treatment of historic windows in the MND, which are important character-defining features of the building exteriors. The proposed rehabilitation work on Administration and Classroom Building 1, for example, states that "the exterior windows would be reconstructed where required, and ground floor windows would be replaced and repaired to match the original 5-6

design."[1] Because windows are important character-defining features and their retention or in-kind replacement is critical in maintaining a building's original exterior appearance, we strongly urge LAUSD to follow best practices in interpreting the Secretary of the Interior's Standards and maintain and repair all existing historic windows where possible and fabricate new windows or portions thereof of the same materials (in kind) when replacements are absolutely necessary. 5-6 (cont.)

About the Los Angeles Conservancy:
The Los Angeles Conservancy is the largest local historic preservation organization in the United States, with 6,000 members throughout the Los Angeles area. Established in 1978, the Conservancy works to preserve and revitalize the significant architectural and cultural heritage of Los Angeles County through advocacy and education. 5-7

Thank you for the opportunity to comment on the MND for the Jefferson High School Comprehensive Modernization Project. Please do not hesitate to contact me at (213) 430-4203 or afine@laconservancy.org should you have any questions or concerns.

Sincerely,

Adrian Scott Fine

Adrian Scott Fine
Director of Advocacy

[1] Jefferson Comp Mod MND. May 2018. Section 3.1.2, page 31.

Comment No. 5-1

On behalf of the Los Angeles Conservancy, thank you for the opportunity to comment on the Mitigated Negative Declaration (MND) for the Jefferson High School Comprehensive Modernization Project.

Response to Comment No. 5-1

This comment is an introduction to the Los Angeles Conservancy and its comment letter. The comment does not raise any environmental issues and therefore, no further response is required. Responses to individual comments contained in the letter are provided in Responses to Comments Nos. 5-2 through 5-6.

Comment No. 5-2

The Conservancy appreciates LAUSD's approach with the comprehensive modernization of Jefferson High which combines the rehabilitation and upgrade of historic buildings with new construction, demonstrating that significant historic resources can and should be retained as part of a successful campus modernization project.

Response to Comment No. 5-2

This comment states the Los Angeles Conservancy's support of LAUSD's approach for the Project as proposed in the Draft IS/MND. The comment is noted. The comment does not raise any environmental issues and therefore, no further response is required.

Comment No. 5-3

While this project will result in the loss of two contributors to the California Register-listed Jefferson High School Historic District, the Power House (Building 8) and the Mechanical Arts Building (Building 11), the Conservancy concurs that the campus will retain eligibility as a historic district and resource listed in the California Register.

Response to Comment No. 5-3

This comment states that the Los Angeles Conservancy concurs with the conclusion that the campus will remain eligible as a historic district and resource listed in the California Register after the Project is completed. The comment does not raise any environmental issues, and therefore, no further response is required.

Comment No. 5-4

The design of the proposed new construction, including the new Athletics Building and new Classroom Building, fits with the scale and massing of the historic buildings on campus and references their Streamline Moderne architecture while being clearly differentiated. Additionally, their siting protects the spatial relationships of the historic district's contributing structures.

Response to Comment No. 5-4

This comment states the Los Angeles Conservancy's support of the Project design as proposed in the Draft IS/MND, specifically how the new construction has been sensitively designed in relation to the historic buildings and landscaping of the campus. The comment is noted and will be provided to the decision-making body. The comment does not raise any environmental issues, and therefore, no further response is required.

Comment No. 5-5

While the interior of the library will be deconstructed and rebuilt, we are pleased to see that LAUSD has taken steps to protect, conserve and reinstall the Ross Dickinson mural once renovations of the Library are complete, with work to be conducted by a conservation artist and guided by a conservation plan.

Response to Comment No. 5-5

This comment states the Los Angeles Conservancy's support of the Project as proposed in the Draft IS/MND, specifically, the treatment of the Ross Dickinson mural. The comment is noted and will be provided to the decision-making body. The comment does not raise any environmental issues, and therefore, no further response is required.

Comment No. 5-6

We did note a level of ambiguity regarding the treatment of historic windows in the MND, which are important character-defining features of the building exteriors. The proposed rehabilitation work on Administration and Classroom Building 1, for example, states that "the exterior windows would be reconstructed where required, and ground floor windows would be replaced and repaired to match the original design."[29] Because windows are important character-defining features and their retention or in-kind replacement is critical in maintaining a building's original exterior appearance, we strongly urge LAUSD to follow best practices in interpreting the Secretary of the Interior's Standards and maintain and repair all existing historic windows where possible and fabricate new windows or portions thereof of the same materials (in-kind) when replacements are absolutely necessary.

Response to Comment No. 5-6

As discussed in the IS/MND LAUSD has developed Standard Conditions of Approval to minimize impacts to cultural resources. SC-CUL-3 states "[r]epair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match in materials and appearance." The windows have been identified as a character-defining feature and it is LAUSD's intent to retain as much of the historic material as is feasible. Windows would only be replaced (in-kind) if repair is not possible.

[29] Jefferson Comp Mod MND. May 2018. Section 3.1.2, page 31.

Comment No. 5-7

The Los Angeles Conservancy is the largest local historic preservation organization in the United States, with 6,000 members throughout the Los Angeles area. Established in 1978, the Conservancy works to preserve and revitalize the significant architectural and cultural heritage of Los Angeles County through advocacy and education.

Thank you for the opportunity to comment on the MND for the Jefferson High School Comprehensive Modernization Project. Please do not hesitate to contact me at (213) 430-4203 or afine@laconservancy.org should you have any questions or concerns.

Response to Comment No. 5-7

This comment provides background information for the Los Angeles Conservancy. The comment is a conclusion to the letter and provides contact information at the Los Angeles Conservancy if further questions arise. The comment is noted and will be provided to the decision-making body for their review. The comment does not raise any environmental issues, and therefore, no further response is required.

Comment Letter 6

COMMENT CARD / *TARJETA De COMENTARIO*

Public Meeting / Reunión Pública

Jefferson High School Comprehensive Modernization Project

Modernización Integral de la Escuala Preparatoria de Jefferson

May 22, 2018 / *22 de Mayo 2018*

Name / Nombre: Everett L. Banks 1-310-9084008

Affiliation / Afiliación: Alumni - Class of 1968

Address / Dirección: 1011 E. 50th St Los Angeles, CA. 90011

Comments / Comentarios:

I would like to have a copy of the CD for my interest and study of building design - Thank you. 6-1

Written comments must be received no later than June 7, 2018 at the following address:

Envia su commentaios antes de Junio 7, 2018 a la siquient dirección:

LAUSD Office of Environmental Health and Safety

333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017

Attn: Eimon Smith

2. Comment Letters and Response to Comments

Comment No. 6-1

1011 East 50th Street, Los Angeles, CA 90011

I would like to have a copy of the C.D. for my interest and study of building design – Thank you.

Response to Comment No. 6-1

The commenter requests that a copy of the CD (construction design) be sent to the identified address. This comment does not relate to an environmental effect of the project within the scope of CEQA or the Draft IS/MND. The full IS/MND and site plan was provided at the start of the public review period on May 8, 2018 at the following locations:

LAUSD, Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017 (by appointment, call 213.241.3199)

Thomas Jefferson High School Library, 1319 East 41st Street, Los Angeles, California 90011

LAUSD, Local District - Central, 333 S. Beaudry Avenue, Los Angeles, CA 90017

Vernon-Leon H. Washington Memorial Branch Library, 4504 S. Central Avenue, Los Angeles, CA 90011

LAUSD Office of Environmental Health and Safety Website:

CEQA IS/MND (http://achieve.lausd.net/ceqa)

RAW (http://achieve.lausd.net/siteassessment

The commenter will be sent a copy of this response and is encouraged to follow-up with Mr. Fortunato Tapia at: fortunato.tapia@lausd.net in order to receive a copy of the building designs provided in the community meeting presentation from May 22, 2018.

Comment Letter 7

COMMENT CARD / *TARJETA De COMENTARIO*

Public Meeting / Reunión Pública

Jefferson High School Comprehensive Modernization Project

Modernización Integral de la Escuala Preparatoria de Jefferson

May 22, 2018 / *22 de Mayo 2018*

Name / Nombre: Ofelia Gramajo

Affiliation / Afiliación:

Address / Dirección:

Comments / Comentarios:

Nava tendra un edificio o iran a estar mesclados en las clases 7-1

Written comments must be received no later than June 7, 2018 at the following address:

Envia su commentaios antes de Junio 7, 2018 a la siquient dirección:

LAUSD Office of Environmental Health and Safety

333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017

Attn: Eimon Smith

2. Comment Letters and Response to Comments

Comment No. 7-1

Nava tendra un edificio o iran a estar mesclados en las clases?

[Will NAVA have their own building, or will they be mixed in with the classes?]

Response to Comment No. 7-1

The commenter is asking whether the NAVA program will be accommodated within the planned classrooms, or if it will be housed in its own building. The Project however, has been designed to accommodate the planned enrollment for the total student population on the campus. This comment does not relate to an environmental effect of the project within the scope of CEQA or the Draft IS/MND. This comment has been noted and will be provided to the decision-making body for review and consideration.

Comment Letter 8

COMMENT CARD / *TARJETA De COMENTARIO*

Public Meeting / Reunión Pública

Jefferson High School Comprehensive Modernization Project

Modernización Integral de la Escuala Preparatoria de Jefferson

May 22, 2018 / *22 de Mayo 2018*

Name / Nombre: Johnny Sight, Jeff maxpres.com sports reporter

Affiliation / Afiliación: Alumni Jeff class 1977 & Area Resident

Address / Dirección: 883 E. 49th St. #2

Comments / Comentarios: L.A. CA 90011 2132187980

New 3 Tennis courts are planned on campus however for home games 4 courts are required. Is it possible to add the 4th court to ensure home games? 8-1

Written comments must be received no later than June 7, 2018 at the following address:

Envia su commentaios antes de Junio 7, 2018 a la siquient dirección:

LAUSD Office of Environmental Health and Safety

333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017

Attn: Eimon Smith

Comment No. 8-1

3 new tennis courts are planned on campus however for home games 4 courts are required. Is it possible to add the 4th court to ensure home games?

Response to Comment No. 8-1

The commenter is requesting that a fourth tennis court be added to the proposed Project. The Project is currently designed to accommodate four tennis courts (see Figure 5 of the IS/MND). This comment does not relate to an environmental effect of the project within the scope of CEQA or the Draft IS/MND. This comment has been noted and will be provided to the decision–making body for review and consideration.

3. Mitigation Monitoring and Reporting Program

This Mitigation Monitoring and Reporting Program (MMRP) has been prepared pursuant to Public Resources Code Section 21081.6, which requires adoption of a MMRP for projects in which the Lead Agency has required changes or adopted mitigation to avoid significant environmental effects. LAUSD is the Lead Agency for the proposed Project and therefore is responsible for administering and implementing the MMRP. LAUSD Standard Conditions of Approval (SCs) were adopted by the Board of Education and incorporated into this Project along with one Mitigation Measure.

Standard Conditions of Approval. LAUSD Standard Conditions of Approval (SCs) are uniformly applied development standards and were adopted by the LAUSD Board in November 2015.[30] The SCs have been updated since the adoption of the 2015 version in order to incorporate and reflect changes in the recent laws, regulations and the LAUSD's standard policies, practices and specifications. The SCs were compiled from established LAUSD standards, guidelines, specifications, practices, plans, policies, and programs, as well as typically applied mitigation measures. The SCs are divided into the 19 LAUSD CEQA environmental topics. For each SC, compliance is triggered by factors such as the project type, existing conditions, and type of environmental impact. Compliance with every condition is not required.

Mitigation Measures. If, after incorporation and implementation of federal, State, and local regulations; Collaborative for High-Performance Schools prerequisite criteria; Project Design Features; and SCs, there are still significant environmental impacts, then feasible and project-specific mitigation measures (MMs) are required to reduce impacts to less than significant levels.

The SCs and MM identified for the Thomas Jefferson Comprehensive Modernization Project are included in this MMRP.

[30] LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

3. Mitigation Monitoring and Reporting Program

TABLE 3-1
MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
Aesthetics							
SC-AE-1	**School Design Guide.** This document outlines measures for re-use rather than destruction of historical resources. Requires the consideration of architectural appearance/consistency and other aesthetic factors during the preliminary design review for a proposed school upgrade Project. Architectural quality must consider compatibility with the surrounding community.	Planning	Los Angeles Unified School District (LAUSD), Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-AE-2	**School Design Guide** This document outlines measures to reduce aesthetic impacts around schools, such as shrubs and ground treatments that deter taggers, vandal-resistant and graffiti-resistant materials, painting, etc.	Planning, Construction & Post-construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-AE-3	LAUSD shall assess a proposed Project's consistency with the general character of the surrounding neighborhood, including any proposed changes to the density, height, bulk, and setback of new building (including stadium), addition, or renovation. Where feasible, LAUSD shall make appropriate design changes to reduce or eliminate viewshed obstruction and degradation of neighborhood character. Such design changes could include, but are not limited to, changes to campus layout, height of buildings, landscaping, and/or the architectural style of buildings.	Planning	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety, Facilities Services Division			
SC-AE-7	LAUSD shall reduce the lighting intensity from the new sources on adjacent residences to no more than two foot-candles, measured at the residential property line. LAUSD shall utilize hoods, filtering louvers, glare shields, and/or landscaping as necessary to achieve the standard. The lamp enclosures and poles shall also be painted to reduce reflection. Following installation of lights the lighting contractor shall review and adjust lights to ensure the standard is met.	Construction	LAUSD, Office of Environmental Health and Safety and Facilities Services Division	LAUSD Facilities Services Division			

3. Mitigation Monitoring and Reporting Program

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
SC-AE-8	Design site lighting and select lighting styles and technologies to have minimal impact offsite and minimal contribution to sky glow. Minimize outdoor lighting of architectural and landscape features and design interior lighting to minimize trespass outside from the interior. International Dark-Sky Association (IDA) and the Illuminating Engineering Society (IES) Model Lighting Ordinance (MLO) shall be used a guide for environmentally responsible outdoor lighting. The MLO outdoor lighting has outdoor lighting standards that reduce glare, light trespass, and skyglow. The Joint IDA-IESNA Model Outdoor Lighting Ordinance (MLO) uses lighting zones (LZ0-4) which allow the District to vary the stringency of lighting restrictions according to the sensitivity of the area as well as consideration for the community. The MLO also incorporates the Backlight-Uplight-Glare (BUG) rating system for luminaires, which provides more effective control of unwanted light. IDA-IESNA Model establishes standards to: • Limit the amount of light that can be used • Minimize glare by controlling the amount of light that tends to create glare • Minimize sky glow by controlling the amount of uplight • Minimize the amount of offsite impacts or light trespass	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL-1	**Design Team to Include Qualified Historic Architect** For campuses with qualifying historical resources under CEQA, the Design team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as Project plans progress, with the Secretary of the Interior's Standards and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2). For Projects involving structural upgrades to historic resources, the Design team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated Project-level experience in Historic Preservation. The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the *LAUSD Design Guidelines and Treatment Approaches for Historic Schools*. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards.	Planning and Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
SC-CUL-2	**Role of Historic Architect on Design Team** The tasks of the Historic Architect on the Design team shall include (but not necessarily be limited to) the following: 1. The Historic Architect shall work with the Design team and LAUSD to ensure that Project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall work with the Design team throughout the design process to develop Project options that facilitate compliance with the applicable historic preservation standards. 2. For new construction, the Historic Architect shall work with the Design team and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus. 3. For modernization and upgrade Projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design team and LAUSD to ensure that specifications for design and implementation of Projects comply with the applicable historic preservation standards. 4. The Historic Architect shall participate in design team meetings through all phases of the Project through 100 percent construction drawings, pre-construction, and construction phases (as needed). 5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal Project components and treatment approaches comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The memos will be reviewed by LAUSD. 6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance	Planning and Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

3. Mitigation Monitoring and Reporting Program

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	with Secretary's Standards and/or avoidance of a material impairment of the historical resources. 7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or onsite storage. This shall include detailed instructions on maintaining and protecting in place relevant features. 8. The Design team and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process.						
Air Quality							
SC-AQ-2	LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment.	During Construction	LAUSD, Office of Environmental Health and Safety and Facilities Services Division	LAUSD, Facilities Services Division			
SC-AQ-3	LAUSD's construction contractor shall: • Maintain slow speeds with all vehicles. • Load impacted soil directly into transportation trucks to minimize soil handling. • Water/mist soil as it is being excavated and loaded onto the transportation trucks. • Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site. • Minimize soil drop height into transportation trucks or stockpiles during dumping. • During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks. • Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed.	During Construction	LAUSD, Office of Environmental Health and Safety and Facilities Services Division	LAUSD, Facilities Services Division			

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	• Place stockpiled soil on polyethylene sheeting and cover with similar material. • Place stockpiled soil in areas shielded from prevailing winds.						
SC-AQ-4	LAUSD shall prepare an air quality assessment: If site-specific review of a school construction Project identifies potentially significant adverse regional and localized construction air quality impacts, then LAUSD shall implement all feasible measures to reduce air emissions below the South Coast Air Quality Management District (SCAQMD) regional and localized significance thresholds. LAUSD shall mandate that construction bid contracts include the measures identified in the air quality assessment. Measures shall reduce construction emissions during high-emission construction phases from vehicles and other fuel driven construction engines, activities that generate fugitive dust, and surface coating operations. Specific air emission reduction measures include, but are not limited to, the following: <u>Exhaust Emissions</u> • Schedule construction activities that affect traffic flow to off-peak hours (e.g. between 10:00 AM and 3:00 PM). • Consolidate truck deliveries and/or limit the number of haul trips per day. • Route construction trucks off congested streets. • Employ high pressure fuel injection systems or engine timing retardation. • Utilize ultra-low sulfur diesel fuel, containing 15 parts per million (ppm) sulfur or less (ULSD) in all diesel construction equipment. • Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower. • Restrict non-essential diesel engine idle time, to not more than five consecutive minutes. • Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction. • Utilize electric or alternatively fueled equipment, if feasible.	Planning & Construction	LAUSD, Office of Environmental Health and Safety and	LAUSD, Office of Environmental Health and Safety and Facilities Services Division			

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	• Utilize construction equipment with the minimum practical engine size. • Utilize low-emission on-road construction fleet vehicles. • Ensure construction equipment is properly serviced and maintained to the manufacturer's standards. <u>Fugitive Dust</u> • Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for ten days or more). • Replace ground cover in disturbed areas as quickly as possible. • Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water). • Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip. • Pave construction roads that have a traffic volume of more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles. • Pave all construction access roads for at least 100 feet from the main road to the Project Site. • Water the disturbed areas of the active construction site at least three times per day, except during periods of rainfall. • Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a five percent or greater silt content. • Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph). • Apply water at least three times daily, except during periods of rainfall, to all unpaved road surfaces. • Limit traffic speeds on unpaved road to 15 mph or less. • Prohibit high emission causing fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD.						

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
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	• Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials. • Limit the amount of daily soil and/or demolition debris loaded and hauled per day. <u>General Construction</u> • Utilize ultra-low volatile organic compounds (VOCs) or zero-VOC surface coatings. • Phase construction activities to minimize maximum daily emissions. • Configure construction parking to minimize traffic interference. • Provide temporary traffic control during construction activities to improve traffic flow (e.g., flag person). • Develop a trip reduction plan for construction employees. • Implement a shuttle service to and from retail services and food establishments during lunch hours. • Increase distance between emission sources to reduce near-field emission impacts. • Require construction contractors to document compliance with the identified mitigation measures.						
Biological Resources							
SC-BIO-1	LAUSD qualified biologist shall identify sensitive species and their habitat within or near the Project Site. LAUSD will conduct a literature search, which shall consider a one-mile radius beyond the Project construction site and shall be performed by a qualified biologist with knowledge of local biological conditions as well as the use and interpretation of the data sources identified below. Where appropriate, in the opinion of the biologist, the literature search shall be supplemented with a site visit and/or aerial photo analysis. Resources and information that shall be investigated for each site should include, but not be limited to: • United States Fish and Wildlife Service (USFWS) • National Marine Fisheries Services (NMFS) • California Department of Fish and Wildlife (CDFW) • California Native Plant Society (CNPS)	As part of the site-specific CEQA review process; agency coordination prior to the start of construction; monitoring during construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety			

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	• County and/or city planning or environmental offices for sensitive species, habitat, and/or heritage trees that may not exist on published databases. • CNDDB • CNPS Rare Plant Inventory • Local Audubon Society • Los Angeles County Department of Regional Planning for information on Significant Ecological Areas • California Digital Conservation Atlas for District-wide location of reserves, plan areas, and land trusts that may overlap with Project sites. Biological Resources Report If a report is necessary and the LAUSD qualified biologist determines that a school construction Project will affect an identified sensitive plant, animal, or habitat, a biological resources report shall be prepared. To provide a complete assessment of the flora and fauna within and adjacent to a site-specific Project impact area, with particular emphasis on identifying endangered, threatened, sensitive, and locally unique species and sensitive habitats, the biological resources report shall include the following. • Information on regional setting that is critical to the assessment of rare or unique resources • A thorough, recent floristic-based assessment of special status plans and natural communities, following the CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities. CDFW recommends that floristic, alliance- and/or association-based mapping and vegetation impact assessments be conducted at the Project Site and neighboring vicinity. The Manual of California Vegetation (Sawyer et al.) should also be used to inform this mapping and assessment. Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect6 impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions. • A current inventory of the biological resources associated with each habitat type onsite and within the area of potential effect. CDFW's California Natural Diversity Data Base (CNDDB) should be contacted to obtain current information on any previously reported						

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
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	sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code. • An inventory of rare, threatened, and endangered, and other sensitive species onsite and within the area of potential effect. Species to be addressed should include all those identified in CEQA Guidelines Section 15380, including sensitive fish, wildlife, reptile, and amphibian species. Seasonal variations in use of the Project area should also be addressed. Focused species-specific surveys, conducted at appropriate time of year and time of day when sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with the CDFW and USFWS. • A discussion of the potential adverse impacts from light, noise, human activity, exotic species, and drainage. Drainage analysis should address Project-related changes on drainage patterns on and downstream from the site; the volume, velocity, and frequency of existing and post- Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-Project fate of runoff from the Project Site. • Discussions about direct and indirect Project impacts on biological resources, including resources in nearby public lands, open space, adjacent natural habitats, wetland and riparian ecosystems, and any designated and/or proposed or existing reserve lands (e.g., preserve lands associated with a NCCP). Impacts on, and maintenance of, wildlife corridor/movement areas, including access to undisturbed habitats in adjacent areas. • Mitigation measures for adverse Project-related impacts to sensitive plants, animals, and habitats. Measures should emphasize avoidance and reduction of biological impacts. For unavoidable impacts, onsite habitat restoration or enhancement should be outlined. If onsite measures are not feasible or would not be biologically viable, offsite measures through habitat creation and/or acquisition and preservation in perpetuity should occur. This measure should address restrictions on access, proposed land dedications, monitoring and management programs, control of illegal dumping, water pollution, increased human intrusion, etc. • Plans for restoration and vegetation shall be prepared by qualified biologist with expertise in southern California ecosystems and						

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	native plant vegetation techniques. Plans shall include, at a minimum: - location of the mitigation site - plant species to be used, container sizes, and seeding rates - schematic depicting the mitigation area - planting schedule - irrigation method - measures to control exotic vegetation - specific success criteria - detailed monitoring program - contingency measures should the success criteria not be met - identification of the party responsible for meeting the success criteria and providing for conservation of the site in perpetuity. LAUSD shall consult with the U.S. Army Corps of Engineers, USFWS and/or the CDFW and comply with any permit conditions or directives from those agencies regarding the protection, relocation, creation, and/or compensation of sensitive species and/or habitats.						
SC-BIO-2	LAUSD shall protect sensitive species from harmful exposure to light by shielding light sources, redirecting light sources, or using low intensity lighting.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-BIO-3	LAUSD shall comply with the following: • Project activities (including, but not limited to, staging and disturbances to native and nonnative vegetation, structures, and substrates[31]) should occur outside of avian breading season to avoid take of birds or their eggs.[32] Depending on the avian species present, a qualified LAUSD surveyor or biologist may determine that a change in the breeding season dates is warranted.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

[31] Substrate is the surface on which a plant or animal lives.

[32] Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill (Fish and Game Code Section 86), and includes take of eggs and/or young resulting from disturbances that cause abandonment of active nests.

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
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	• If avoidance of the avian breeding season is not feasible, beginning 30 days prior to the initiation of the Project activities, a qualified LAUSD surveyor or biologist with experience in conducting breeding bird surveys shall conduct weekly bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (within 500 feet for raptors). The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of Project activities. If a protected native bird is found, LAUSD shall delay all Project activities within 300 feet of the suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified biologist could continue the surveys in order to locate any nests. If an active nest is located, Project activities within 300 feet of the nest (within 500 feet for raptor nests), or as determined by a qualified LAUSD surveyor or biologist, shall be postponed until the nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing shall be used to demarcate the inside boundary of the 300- or 500-foot buffer between the Project activities and the nest. Project personnel, including all contractors working on site, shall be instructed on the sensitivity of the area. LAUSD shall provide results of the recommended protective measures to document compliance with applicable State and federal laws pertaining to the protection of native birds. • If the qualified LAUSD surveyor or biologist determines that a narrower buffer between the Project activities and observed active nests is warranted, a written explanation as to why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the Project activities and the nest and foraging areas) shall be submitted to LAUSD Office of Environmental Health and Safety (OEHS) Project manager. Construction contractors can then reduce the demarcated buffer. • No construction shall occur within the fenced next zone until the young have fledged, are no longer being fed by the parents, have left the nest, and will no longer by impacted the construction.						

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	• A qualified LAUSD surveyor or biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain outside the demarcated buffer and that the flagging, stakes, and/or construction fencing are maintained, and to minimize the likelihood that active nests are abandoned or fail due to Project activities. The biological monitor shall send weekly monitoring reports to LAUSD OEHS Project manager during the grubbing and clearing of vegetation, and shall notify LAUSD immediately if Project activities damage avian nests.						
SC-BIO-4	LAUSD shall comply with the following conditions if a new school would be located in an area containing native habitat or if a protected tree would be removed from an existing campus: • Mitigation shall not include translocation of rare plants. CDFW, in most cases does not recommend translocation, salvage, and/or transplantation of rare, threatened, or endangered plant species, in particular oak trees, as compensation for adverse effects because successful implementation of translocation is rare. Even if translocation is initially successful, it will typically fail to persist over time. • **Permanent conservation of habitat.** To ensure the conservation of sensitive plant species, the preferred method is permanent conservation of habitat containing these species; any translocation proposed shall only be an experimental component of a larger, more robust plan. • **Offsite acquisition of woodland habitat.** Due to the inherent difficulty in creating functional woodland habitat with associated understory components, the preferred method is offsite acquisition of woodland habitat in the local area. All acquired habitat shall be protected under a conservation easement and deeded to a local land conservancy for management and protection. • **Creation of oak woodlands.** Any creation of functioning woodlands shall be of similar composition, structure, and function of the affected oak woodland. The new woodland shall mimic the function, demonstrate recruitment, plant density, and percent basil, canopy, and vegetation cover, as well as other measurable success criteria before the measure is deemed a success.	During Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

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	- All seed and shrub sources used for tree and understory species in the new planting site shall be collected or grown from onsite sources or from adjacent areas and shall not be purchased from a supplier. This method should reduce the risk of introducing diseases and pathogens into areas where they might not currently exist. - Oaks should be replaced by planting acorns because this has been shown to result in greater oak survival. Monitoring efforts, including the exclusion of herbivores, shall be employed to maximize seedling survival during the monitoring period. - Monitoring period for oak woodland shall be at least 10 years with a minimum of seven years without supplemental irrigation. This allows the trees to go through one typical drought cycle. This should also be the minimal time needed to see signs of stress and disease and determine the need for replacement plantings. LAUSD shall request CDFW review and comment on any translocation plans, habitat preservation, habitat creation and/or restoration plans.						
SC-BIO-5	LAUSD shall comply with CDFW recommendations as listed below: • Project development or conversion that results in a reduction of wetland acreage or wetland habitat values shall not occur unless, at a minimum, replacement or preservation results in “no net loss” of either wetland habitat values or acreage. • All wetlands and watercourses, whether intermittent or perennial, should be retained and provided with substantial setbacks which preserve the riparian and aquatic values and maintain their value to onsite and offsite wildlife populations. • A jurisdictional delineation of creeks and their associated riparian habitats shall be conducted as part of the biological resources report. The delineation should be conducted pursuant to the USFWS wetland definition. • Implementation of recommended measures shall compensate for affected mature riparian corridors and loss of function and value of wildlife corridors.	As part of the site-specific CEQA review process; agency coordination prior to the start of construction; monitoring during and after construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

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Cultural Resources							
SC-CUL-1	Design Team to Include Qualified Historic Architect For campuses with qualifying historical resources under CEQA, the Design team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as Project plans progress, with the Secretary of the Interior's Standards and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2). For projects involving structural upgrades to historic resources, the Design team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated project-level experience in Historic Preservation. The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards.	Planning & Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL-2	Role of Historic Architect on Design Team The tasks of the Historic Architect on the Design team shall include (but not necessarily be limited to) the following: 1. The Historic Architect shall work with the Design and LAUSD to ensure that Project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall work with the Design throughout the design process to develop Project options that facilitate compliance with the applicable historic preservation standards. 2. For new construction, the Historic Architect shall work with the Design and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-	Planning & Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

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	defining site plan features, landscaping, and circulation corridors throughout campus. 3. For modernization and upgrade projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design and LAUSD to ensure that specifications for design and implementation of projects comply with the applicable historic preservation standards. 4. The Historic Architect shall participate in design team meetings through all phases of the Project through 100 percent construction drawings, pre-construction, and construction phases (as needed). 5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal Project components and treatment approaches comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The memos will be reviewed by LAUSD. 6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources. 7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or on site storage. This shall include detailed instructions on maintaining and protecting in place relevant features. 8. The Design and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process.						

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SC-CUL-3	School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. LAUSD has adopted policies and guidelines that apply to projects involving historic resources. The Design team and Historic Architect shall apply these guidelines, which include the LAUSD School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and upgrade/modernization projects. In keeping with the district's adopted policies and goals, LAUSD shall re-use rather than destroy historical resources where feasible. LAUSD shall follow the guidelines outlined in these documents to the maximum extent practicable when planning and implementing projects and adjacent new construction involving historical resources. General guidelines shall include: • Retain and preserve the historic character of buildings, structures, landscapes, and site features that are historically significant. • Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match in materials and appearance. • Avoid removing, obscuring, or destroying character-defining features and materials. • Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity. • Conceal reinforcement required for structural stability or the installation of life safety or mechanical systems. Undertake surface cleaning, preparation of surfaces, and other projects involving character-defining features using the least invasive, gentlest means possible. Avoid sandblasting and chemical treatments.	Planning & Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL-4	Prior to demolition or mothballing activities, LAUSD shall retain a professional architectural photographer and a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to prepare HABS-like documentation for the historical resources slated for demolition. The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for demolition. Documentation prepared for the package will draw upon primary- and	Planning & Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

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	secondary-source research and available studies previously prepared for the Project. Measured drawings shall not be required for the Project. The specifications for the HABS-like package follow: Photographs: Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context photographs for the campus and adjacent setting. Photographs will be taken of interior and exterior features of the buildings using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be printed in black and white on archival film paper and also provided in electronic format. Descriptive and Historic Narrative: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate. Historic Documentation Package Submittal: The draft package will be assembled by the historian or architectural historian and submitted to LAUSD for review and comment. After final approval, one hard-copy set of the package will be prepared as follows: Photographs will be individually labeled and stored in individual acid-free sleeves. The remaining components of the historic documentation package (site map, photo index, historic narrative, and additional data) will be printed on archival bond, acid-free paper. Upon completion of the descriptive and historic narrative, all materials will be compiled in electronic format and presented to LAUSD for review and approval. Upon approval, one hard-copy version of the historic documentation package will be prepared and submitted to LAUSD. The historian or architectural historian shall offer a hardcopy package and compiled, electronic version of the final package to the Los Angeles Public Library (Central Library), Los Angeles Historical Society, and the South Central Coastal Information Center, to make available to researchers.						

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SC-CUL-5	LAUSD, consistent with Education Code Section 17540, may offer to sell any useful features of the school building (e.g., the school bell, chalkboards, lockers) that do not contain hazardous materials for use or display, if features are not retained by LAUSD for reuse or display.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL-6	LAUSD, consistent with Education Code Section 17545, may offer for sale any remaining functional and defining features and building materials from the buildings. These materials could include doors, windows, siding, stones, lighting, doorknobs, hinges, cabinets, and appliances, among others. They may be made available to the public for sale and reuse, if features are not retained by LAUSD for reuse or display.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL-7	LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39).	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL-8	If historical or unique archaeological resources are discovered during construction activities, the contractor shall halt construction activities in the immediate area and notify the LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the building site while evaluation and treatment of historical or unique archaeological resources takes place.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL-9	LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique archaeological resources have been identified on a site, but LAUSD does not implement a Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program.	Prior to the start of construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety			

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SC-CUL-10	If evidence of prehistoric or historic cultural resources is uncovered, all work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed Project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL11	Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil disturbance. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety			
SC-CUL12	If archeological resources qualifying as unique archaeological resources are discovered and LAUSD determines not to avoid them by abandoning the site or redesigning the Project, LAUSD will determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by the Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation will be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor will be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

3. Mitigation Monitoring and Reporting Program

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
SC-CUL-13	If evidence of Native American resources is uncovered during construction, then all work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL14	LAUSD shall have a paleontological monitor on-call during construction activities. This monitor shall provide the construction crew(s) with a brief summary of the sensitivity, the rationale behind the need for protection of these resources, and information on the initial identification of paleontological resources. If paleontological resources are uncovered during construction, the on-call paleontologist shall be notified and afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to ensure the protection of any other resources that may be in the area.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-CUL-15	The paleontological monitor shall be on site for all ground altering activities and shall advise LAUSD as to necessary means of protecting potentially significant paleontological resources, including, but not limited to, possible cessation of construction activities in the immediate area of a find. If resources are identified during the monitoring program, the paleontologist shall be afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to insure the protection of any other resources that may be in the area.	During grading, excavation, or other ground-disturbing activities	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
MM-CUL-1	To communicate stories, information, and experiences pertinent to the history/historic events that took place on the Jefferson High School campus, an Interpretive Program shall be developed in collaboration with the Jefferson High School community (i.e. students, staff, alumni, community members, etc.). An Interpretive Plan shall be developed by the District as a guideline for the Interpretive Program. The Interpretive Program shall be located in a publically accessible area on campus (such as the school library) and shall describe the history of Jefferson High School prior to the Project; specifically, the period of significance (1935–1937) and key historical events that were relevant to Jefferson High School. The Interpretive Program may include historical photographs, aerials, Sanborn maps, student photographs, yearbooks, newspapers, artifacts, and written narrative that visually demonstrate the physical appearance, activities, and architectural style of the school. A District-approved representative shall provide input and oversight to the contents, design, and installation of the Interpretive Program.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety and Facilities Services Division			

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
Geology and Soils							
SC-GEO-1	**OEHS CEQA Specification Manual, Appendix G, Supplemental Geohazard Assessment Scope of Work.** This document outlines the procedures and scope for LAUSD geohazard assessments.	Planning & Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-HWQ-1	**Stormwater Technical Manual** This manual establishes design requirements and provides guidance for the cost-effective improvement of water quality in new and significantly redeveloped LAUSD school sites. These guidelines are intended to improve water quality and mitigate potential impacts to the Maximum Extent Practicable (MEP). While these guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) requirements. The guidelines address the mandated post-construction element of the National Pollutant Discharge Elimination System (NPDES) program requirements	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-HWQ-2	**Compliance Checklist for Storm Water Requirements at Construction Sites.** This checklist has requirements for compliance with the General Construction Activity Permit and is used by OEHS to evaluate permit compliance. Requirements listed include a Stormwater Pollution Prevention Plan (SWPPP); BMPs for minimizing storm water pollution to be specified in a SWPPP; and monitoring storm water discharges to ensure that sedimentation of downstream waters remains within regulatory limits.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
Greenhouse Gas Emissions							
SC-GHG-1	During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping and tanks to minimize water loss.	During School operation	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-GHG-2	LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation.	Post-construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

3. Mitigation Monitoring and Reporting Program

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
SC-GHG-3	LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season.	Post-construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-GHG-4	LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-GHG-5	LAUSD shall ensure that the time dependent valued energy of the proposed Project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency standards that are in force at the time the Project is submitted to the Division of the State Architect..	Planning and Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
Hydrology and Water Quality							
SC-HWQ-1	**Stormwater Technical Manual** This manual establishes design requirements and provides guidance for the cost-effective improvement of water quality in new and significantly redeveloped LAUSD school sites. These guidelines are intended to improve water quality and mitigate potential impacts to the Maximum Extent Practicable (MEP). While these guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) requirements. The guidelines address the mandated post-construction element of the NPDES program requirements.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-HWQ-2	**Compliance Checklist for Storm Water Requirements at Construction Sites.** This checklist has requirements for compliance with the General Construction Activity Permit and is used by OEHS to evaluate permit compliance. Requirements listed include a SWPPP; BMPs for minimizing storm water pollution to be specified in a SWPPP; and monitoring storm water discharges to ensure that sedimentation of downstream waters remains within regulatory limits.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD Facilities Services Division			

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
Noise							
SC-N-1	LAUSD shall include features such as sound walls, building configuration, and other design features in order to attenuate exterior noise levels on a school campus to less than 70 dBA L_{10} or 67 dBA L_{eq}.	During Project design	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety and Facilities Services Division			
SC-N-2	LAUSD shall analyze the acoustical environment of the site (such as traffic) and the characteristics of planned building components (such as heating, ventilation, and air conditioning [HVAC]), and design to achieve interior classroom noise levels of less than 55 dBA L10 or 45 dBA Leq with maximum (unoccupied) reverberation times of 0.6 seconds. Noise reduction methods shall include, but are not limited to, sound walls, building and/or classroom insulation, HVAC modifications, double-paned windows, and other design features in order to achieve the noise standards. • The District should acknowledge the ANSI (American National Standards Institute) S12 standard as a District goal that may presently not be achievable in all cases. • Where economically feasible, new school design should achieve classroom acoustical quality consistent with the ANSI standard and in no event exceed the current CHPS (California High Performance Schools) standard of 45 dBA. • Where economically feasible, new HVAC (Heating, Ventilating, and Air Conditioning) installations should be designed to achieve the lowest possible noise level consistent with the ANSI standard. In no event should these installations exceed the current CHPS standard of 45 dBA. • To promote the development of lower noise emitting HVAC units, the District's purchase of new units should give preference to manufacturers producing the lowest noise level at the lowest cost. • Existing HVAC units operating in excess of 50 dBA should be modified.	During Project design	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety and Facilities Services Division			

3. Mitigation Monitoring and Reporting Program

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
SC-N-3	LAUSD shall require an acoustical analysis to identify feasible measures to reduce traffic noise increases to 3 dBA community noise equivalent level (CNEL) or less at the noise-sensitive land use. LAUSD shall implement recommended measures to reduce noise.	During project design and construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety			
SC-N-4	LAUSD shall incorporate long-term permanent noise attenuation measures between playgrounds, stadiums, and other noise-generating facilities and noise-sensitive land uses, to reduce noise levels to meet jurisdictional standards or an increase of 3 dB or less over ambient. Operational noise attenuation measures include, but are not limited to: • buffer zones • berms • sound barriers: – buildings – masonry walls – enclosed bleacher foot wells – other site-specific Project design features.	During Project design	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-N-5	LAUSD Facilities Division or its construction contractor shall consult and coordinate with the school principal or site administrator, and other nearby noise sensitive land uses prior to construction to schedule high noise or vibration producing activities to minimize disruption. Coordination between the school, nearby land uses and the construction contractor shall continue on an as-needed basis throughout the construction phase of the Project to reduce school and other noise sensitive land use disruptions.	Prior to construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-N-6	The LAUSD shall require the construction contractor to minimize blasting for all construction and demolition activities, where feasible. If demolition is necessary adjacent to residential uses or fragile structures, the LAUSD shall require the construction contractor to avoid using impact tools. Alternatives that shall be considered include mechanical methods using hydraulic crushers or deconstruction techniques.	During construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
SC-N-7	For Projects where pile driving activities are required within 150 feet of a structure, a detailed vibration assessment shall be provided by an acoustical engineer to analyze potential impacts related to vibration to nearby structures and to determine feasible mitigation measures to eliminate potential risk of architectural damage.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-N-8	LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers. • Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building. • The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building. • The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building. • During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any ground impacting operation associated with demolition and construction of a new building. During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue “stop-work” orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented.	Prior to and during demolition and construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety			
SC-N-9	LAUSD shall prepare a noise assessment. If site-specific review of a school construction Project identifies potentially significant adverse construction noise impacts, then LAUSD shall implement all feasible measures to reduce below applicable noise ordinances. Exterior construction noise levels exceed local noise standards, policies, or ordinances at noise-sensitive receptors. LAUSD shall mandate that construction bid contracts include the measures identified in the noise	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Office of Environmental Health and Safety and Facilities Services Division			

3. Mitigation Monitoring and Reporting Program

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
	assessment. Specific noise reduction measures include, but are not limited to, the following: <u>Source Controls</u> • Time Constraints – prohibiting work during sensitive nighttime hours • Scheduling – performing noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM) • Equipment Restrictions – restricting the type of equipment used • Noise Restrictions – specifying stringent noise limits • Substitute Methods – using quieter methods and/or equipment • Exhaust Mufflers – ensuring equipment have quality mufflers installed • Lubrication & Maintenance – well maintained equipment is quieter • Reduced Power Operation – use only necessary size and power • Limit Equipment OnSite – only have necessary equipment onsite • Noise Compliance Monitoring – technician on site to ensure compliance • Quieter Backup Alarms – manually-adjustable or ambient sensitive types <u>Path Controls</u> • Noise Barriers – semi-permanent or portable wooden or concrete barriers • Noise Curtains – flexible intervening curtain systems hung from supports • Enclosures – encasing localized and stationary noise sources • Increased Distance – perform noisy activities farther away from receptors, including operation of portable equipment, storage and maintenance of equipment <u>Receptor Controls</u> • Window Treatments – reinforcing the building's noise reduction ability						

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
	• Community Participation – open dialog to involve affected residents • Noise Complaint Process – ability to log and respond to noise complaints. Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the Project area. The notice shall State specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the contractor and the District. In the event of noise complaints, the LAUSD shall monitor noise from the construction activity to ensure that construction noise does not exceed limits specified in the noise ordinance. • Temporary Relocation – in extreme otherwise unmitigatable cases. Temporarily move residents or students to facilities away from the construction activity.						
Transportation and Circulation							
SC-T-2	**School Design Guide.** Vehicular access and parking shall comply with Section 2.3, Vehicular Access and Parking of the School Design Guide, January 2014 (and/or Current Version). The Design Guide contains the following regulations related to traffic: • Parking Space Requirements • General Parking Guidelines • Vehicular Access and Pedestrian Safety • Parking Structure Security	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-T-4	LAUSD shall require its Construction Contractors to submit a construction worksite traffic control plan to LAUSD for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. The Construction contractor shall implement the applicable transportation related safety measures during construction.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

3. Mitigation Monitoring and Reporting Program

Mitigation Measures (MM) / Standard Conditions of Approval (SC)		Implementing Phase	Responsible Monitoring Agency	Responsible Implementing Agency	Verification of Compliance		
					Initials	Date	Remarks
Tribal Cultural Resources							
SC-TCR-1	All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the affiliated Native American Tribal representative has been contacted and consulted to provide as-needed monitoring or to assist in the accurate assessment, recordation, and if appropriate, recovery of the resources, as required by the District.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD Facilities Services Division			
Utilities and Service Systems							
SC-USS-1	**School Design Guide.** Construction and demolition waste shall be recycled to the maximum extent feasible. LAUSD has established a minimum non-hazardous construction and demolition debris recycling requirement of 75% by weight as defined in Specification 01340, Construction & Demolition Waste Management. **Guide Specifications 2004 - Section 01340, Construction & Demolition Waste Management.** This section of the LAUSD Specifications includes procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvage or disposal of non-hazardous waste materials generated during demolition and/or new construction (Construction & Demolition (C&D) Waste), to foster material recovery and re-use and to minimize disposal in landfills. Requires the collection and separation of all C&D waste materials generated onsite, reuse or recycling onsite, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum of 75% of the C&D waste generated.	Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			
SC-USS-2	LAUSD shall coordinate with the City of Los Angeles Department of Water and Power or other appropriate jurisdictions and departments prior to the relocation or upgrade of any water facilities to reduce the potential for disruptions in service.	During Construction	LAUSD, Office of Environmental Health and Safety	LAUSD, Facilities Services Division			

4. Initial Study / Mitigated Negative Declaration

August 2018 | Revised Draft Initial Study/Mitigated Negative Declaration

THOMAS JEFFERSON HIGH SCHOOL

Comprehensive Modernization Project

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August 2018 | Revised Draft Initial Study/Mitigated Negative Declaration

THOMAS JEFFERSON HIGH SCHOOL

Comprehensive Modernization Project

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ABBREVIATIONS AND ACRONYMS

AAQS	ambient air quality standards
AB	Assembly Bill
ACM	Asbestos Containing Materials
ADA	Americans with Disabilities Act
APN	Assessor Parcel Number
AQMP	air quality management plan
BMP	best management practices
BOE	Board of Education
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Code
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CCR	California Code of Regulations
CDE	California Department of Education
CDFM	Character-Defining Features Memorandum (CDFM)
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CHPS	Collaborative for High Performance Schools
CHR	California Historic Register
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO	carbon monoxide
COC	Contaminant of Concern
CO_2e	carbon dioxide equivalent
dBA	decibels
CPA	Los Angeles Community Plan Area

Abbreviations and Acronyms

DPM	diesel particulate matter
DSA	Division of the State Architect (under the California Department of General Services)
DTSC	Department of Toxic Substances Control
EIR	Environmental Impact Report
EOP	Emergency Operations Plan
FEMA	Federal Emergency Management Agency
FETU	Facilities Environmental Technical Unit
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
GHG	greenhouse gases
HAPs	Hazardous Air Pollutants
HCP	Habitat Conservation Plan
HFCs	hydrofluorocarbons
HRA	health risk assessment
IS	Initial Study
LACM	Natural History Museum of Los Angeles County
LACSD	Los Angeles County Sanitation District
LADOT	City of Los Angeles Department of Transportation
LADPW	Los Angeles Department of Public Works
LADWP	City of Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
LAPD	City of Los Angeles Police Department
LAPL	Los Angeles Public Library
LASPD	Los Angeles School Police Department
LAUSD	Los Angeles Unified School District
LBP	Lead-based Paint
LID	Low Impact Development
LST	localized significance thresholds
MBTA	Migratory Bird Treaty Act
MCD	Modified Consent Decree
mgd	million gallons per day
MMT	million metric tons
$MMTCO_2e$	million metric tons of CO_2e

Abbreviations and Acronyms

MND	Mitigated Negative Declaration
$MTCO_2e$	metric ton of CO_2e
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
ND	Negative Declaration
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
O_3	Ozone
OCPs	Organochlorine pesticides
OEHS	Office of Environmental Health and Safety
OHP	Office of Historic Preservation
OPSC	California Office of Public School Construction
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated biphenyls
PDF	project design features
PFCs	perfluorocarbons
PM	Particulate Matter
ppm	parts per million
ppv	peak particle velocity
PRC	Public Resources Code
PSHA	pipeline safety hazard assessment
RAW	Removal Action Workplan
RCRA	Resource Conservation and Recovery Act
RMS	Root mean square
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
RWQCB	regional water quality control board
SAB	State Allocation Board
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCGC	Southern California Gas Company
SCS	sustainable communities strategy
SCs	Standard Conditions of Approval

Abbreviations and Acronyms

SEA	Significant Ecological Areas
SF	Square Feet
SF6	sulfur hexafluoride
SoCAB	South Coast Air Basin
SUP	School Upgrade Program
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
TAC	Toxic Air Contaminants
USFWS	United States Fish and Wildlife Service
USGS	United States Geologic Survey
TPH	petroleum hydrocarbons
UWMP	Urban Water Management Plan
UST	underground storage tank
VMT	vehicle miles traveled
VOC	volatile organic compounds

1. Introduction

1.1 OVERVIEW

The Los Angeles Unified School District (LAUSD) is proposing a comprehensive modernization of Thomas Jefferson High School, located at 1319 East 41st Street, City of Los Angeles, Los Angeles County, California. The Thomas Jefferson High School (Jefferson HS) Comprehensive Modernization Project (Project) is designed to address the most critical physical needs of the building and grounds at the campus through building replacement, renovation, modernization, and reconfiguration. The Project is required to undergo an environmental review pursuant to the California Environmental Quality Act (CEQA). This initial study provides an evaluation of the potential environmental consequences associated with this proposed Project.

1.2 BACKGROUND

On July 31, 2008, the LAUSD Board of Education (Board or BOE) adopted a Resolution Ordering an Election and Establishing Specifications of the Election Order for the purpose of placing Measure Q, a $7 billion bond measure, on the November election ballot to fund the renovation, modernization, construction, and expansion of school facilities. On November 4, 2008, the bond passed. The nationwide economic downturn in 2009 resulted in a decline in assessed valuation of real property, which restricted the District's ability to issue Measure Q bonds and the remaining unissued Measures R and Y funds. Once assessed valuation improved, the BOE could authorize the issuance of bond funds.[33]

On December 10, 2013, the District refined its School Upgrade Program (SUP) to reflect the intent and objectives of Measure Q as well as the updated needs of District school facilities and educational goals.[34] Between July 2013 and November 2015, the SUP was analyzed under CEQA criteria in a Program Environmental Impact Report (EIR). On November 10, 2015, the BOE certified the Final SUP Program EIR.[35]

On March 10, 2015, LAUSD's Board approved pre-design and due diligence activities necessary to develop a project definition for a Comprehensive Modernization Project at Thomas Jefferson High School. The proposed Project is intended to provide facilities that are safe, secure, and better aligned with the instructional program. On December 8, 2015, the Board approved the Project definition for Thomas Jefferson High School (Project Site or Campus). This approval authorized LAUSD's Facilities Services Division to proceed with Project design and the completion of related technical and regulatory studies including those required under CEQA.

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33 LAUSD Board of Education Report. December 10, 2013. Report Number 143 – 13/14. Subject: School Upgrade Program.
34 LAUSD Board of Education Report. December 10, 2013. Report Number 143 – 13/14. Subject: School Upgrade Program.
35 LAUSD Regular Meeting Stamped Order Of Business. 333 South Beaudry Avenue, Board Room, 1 p.m., Tuesday, November 10, 2015 (Board of Education Report No. 159 – 15/16).

Since March 2015, the Project team, which is comprised of but is not limited to: Jefferson HS administrators and staff; District staff and consultants (including but not limited to: a range of technical specialists, design managers, architects, planners, historic architects, structural specialists, etc.); and the Jefferson HS community at-large (i.e., students, alumni, parents, neighbors, etc. – who have attended at least one or more of the three community meetings regarding this Project that the District has held to date), have worked to complete pre-design and due diligence activities for the Project.

1.3 CALIFORNIA ENVIRONMENTAL QUALITY ACT

The environmental compliance process is governed by the CEQA[36] and the State CEQA Guidelines.[37] CEQA was enacted in 1970 by the California Legislature to disclose to decision-makers and the public the significant environmental effects of projects and to identify ways to avoid or reduce the environmental effects through feasible alternatives or mitigation measures. Compliance with CEQA applies to California government agencies at all levels: local, regional, State agencies, boards, commissions, and special districts (such as school districts and water districts).

LAUSD is the lead agency for this proposed Project, and is therefore required to conduct an environmental review to analyze the potential environmental effects associated with the proposed Project.

California Public Resources Code (PRC) Section 21080(a) states that analysis of a project's environmental impact is required for any "discretionary projects proposed to be carried out or approved by public agencies…" In this case, LAUSD has determined that an initial study (IS) is required to determine whether there is substantial evidence that construction and operation of the proposed Project would result in environmental impacts. An IS a preliminary environmental analysis to determine whether an environmental impact report (EIR), a mitigated negative declaration (MND), or a negative declaration (ND) is required for a project.[38]

When an IS identifies the potential for significant environmental impacts, the lead agency must prepare an EIR,[39] however, if all impacts are found to be less-than-significant or can be mitigated to a less-than-significant level, the lead agency can prepare a ND or MND that incorporates mitigation measures into the project.[40]

1.4 ENVIRONMENTAL PROCESS

A "project" means the whole of an action that has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, and that is any of the following:

1) An activity directly undertaken by any public agency including but not limited to public works construction and related activities clearing or grading of land, improvements to existing public structures, enactment and

[36] California Public Resources Code (PRC) Sections 21000 et seq.
[37] California Code of Regulations (CCR), Title 14, Sections 15000 et seq.
[38] 14 CCR Section 15063.
[39] 14 CCR Section 15064.
[40] 14 CCR Section 15070.

amendment of zoning ordinances, and the adoption and amendment of local General Plans or elements thereof pursuant to Government Code Sections 65100-65700.

2) An activity undertaken by a person which is supported in whole or in part through public agency contacts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.

3) An activity involving the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies. (California Code of Regulations [CCR] Section 15378[a])

The proposed actions by LAUSD constitute a "project" because the activity would result in a direct physical change in the environment and would be undertaken by a public agency. All "projects" in the State of California are required to undergo an environmental review to determine the environmental impacts associated with implementation of the project.

1.4.1 Initial Study

This IS was prepared in accordance with CEQA and the CEQA Guidelines, as amended, to determine if the Project could have a significant impact on the environment. The purposes of this IS, as described in the State CEQA Guidelines Section 15063, are to: 1) provide the lead agency with information to use as the basis for deciding whether to prepare an EIR or ND; 2) enable the lead agency to modify a project, mitigating adverse impacts before an EIR is prepared, thereby enabling the project to qualify for a negative declaration; 3) assist in the preparation of an EIR, if one is required; 4) facilitate environmental assessment early in the design of a project; 5) provide documentation of the factual basis for the finding in an ND that a project will not have a significant effect on the environment; 6) eliminate unnecessary EIRs; and 7) determine whether a previously prepared EIR could be used with the project. The findings in this IS have determined that an MND is the appropriate level of environmental documentation for this Project.

1.4.2 Mitigated Negative Declaration

The MND includes information necessary for agencies to meet statutory responsibilities related to the proposed Project. State and local agencies will use the MND when considering any permit or other approvals necessary to implement the Project. A preliminary list of the environmental topics that have been identified for study in the MND is provided in the IS Checklist (Chapter 4).

One of the primary objectives of CEQA is to enhance public participation in the planning process; public involvement is an essential feature of CEQA. Community members are encouraged to participate in the environmental review process, request to be notified, monitor newspapers for formal announcements, and submit substantive comments at every possible opportunity afforded by the District. The environmental review process for this Project provides several opportunities for the public to participate through public notice and public review of CEQA documents. A Notice of Intent (NOI) to adopt an MND will be published in both an English and Spanish language newspaper; posted at the Project-Site and with the local and State repositories; and direct mailed and/or distributed to Parents/Guardians of students, tenants, and property-owners within a 0.25 mile radius. Copies of this IS/MND will be available at multiple repositories including Jefferson HS and online at the Office of Environmental Health and Safety website at: http://achieve.lausd.net/ceqa. In addition to the community meetings held by the District including those on November 5, 2015, December 14, 2016,

and March 18, 2017, the District will host a CEQA public meeting for the Project. Additionally, LAUSD will respond to Draft IS/MND public comments in the Final MND.

1.4.3 Tiering

This type of project is one of many that were analyzed in the LAUSD SUP Program EIR that was certified by the LAUSD BOE on November 10, 2015.[41] LAUSD's Program EIR meets the criteria for a Program EIR under CEQA Guidelines Section 15168 (a)(4) as one "prepared on a series of actions that can be characterized as one large project and are related…[a]s individual activities carried out under the same authorizing statutory or regulatory authority and having generally similar environmental effects which can be mitigated in similar ways."

The certified Program EIR enables LAUSD to streamline future environmental compliance and reduces the need for repetitive environmental studies.[42] The Program EIR serves as the framework and baseline for CEQA analyses of later projects through a process known as "tiering." Under CEQA Guidelines Sections 15152(a) and 15385, "Tiering" refers to using the analysis of general matters contained in a broader EIR (such as one prepared for a program) with later EIRs and negative declarations on narrower projects; incorporating by reference the general discussions from the broader EIR; and concentrating the later EIR or negative declaration solely on the issues specific to the later project.[43]

The Program EIR is applicable to all projects implemented under the School Upgrade Program. The Program EIR provides the framework for evaluating environmental impacts related to ongoing facility upgrade projects planned by the District.[44] Due to the extensive number of individual projects anticipated to occur under the SUP, projects were grouped into four categories based on the amount and type of construction proposed. The four categories of projects are as follows:[45]

- Type 1 – New Construction on New Property
- Type 2 – New Construction on Existing Campus
- Type 3 – Modernization, Repair, Replacement, Upgrade, Remodel, Renovation, and Installation
- Type 4 – Operational and Other Campus Changes

The proposed Project is categorized as Type 2 – New Construction on Existing Campus, which includes demolition and new building construction on existing campuses and the replacement of school buildings on the same location, and Type 3 – Modernization, Repair, Replacement, Upgrade, Remodel, Renovation, and Installation, which includes modernization and infrastructure upgrades. The evaluation of environmental

41 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015.
42 Ibid.
43 CEQA Guidelines Section 15152(a).
44 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015, at 4-8.
45 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015, at 1-7.

impacts related to Type 2 and Type 3 projects, and the appropriate Project design features and mitigation measures to incorporate, are provided in the Program EIR.

The proposed Project is considered a site-specific Project under the Program EIR; therefore, this MND is tiered from the SUP Program EIR. The Program EIR is available for review online at http://achieve.lausd.net/ceqa and at LAUSD's Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017.

1.4.3 Project Plan and Building Design

The Project is subject to the California Department of Education (CDE) design and siting requirements, and the school architectural designs are subject to review and approval by the California Division of the State Architect (DSA). The proposed Project, along with all other SUP-related projects, is required to comply with specific design standards and sustainable building practices. Certain standards assist in reducing environmental impacts, such as the California Green Building Code (CALGreen),[46] LAUSD Standard Conditions of Approval, and the Collaborative for High-Performance Schools (CHPS) criteria.[47]

Collaborative for High-Performance Schools. The proposed Project would include CHPS criteria points under seven categories: Integration, Indoor Environmental Quality, Energy, Water, Site, Materials and Waste Management, and Operations and Metrics. LAUSD is committed to sustainable construction principles and has been a member of the CHPS since 2001. CHPS has established criteria for the development of high-performance schools to create a better educational experience for students and teachers by designing the best facilities possible. CHPS-designed facilities are healthy, comfortable, energy efficient, material efficient, easy to maintain and operate, commissioned, environmentally responsive site, a building that teaches, safe and secure, community resource, stimulating architecture, and adaptable to changing needs. The proposed Project would comply with CHPS and LAUSD sustainability guidelines. The design team would be responsible in incorporating sustainability features for the proposed Project, including onsite treatment of stormwater runoff, "cool roof" building materials, lighting that reduces light pollution, water and energy-efficient design, water-wise landscaping, collection of recyclables, and sustainable and/or recycled-content building materials.

Project Design Features. Project design features (PDFs) are environmental protection features that modify a physical element of a site-specific project and are depicted in a site plan or documented in the project design plans. PDFs may be incorporated into a project design or description to offset or avoid a potential environmental impact and do not require more than adhering to a site plan or project design. Unlike mitigation measures, PDFs are not special actions that need to be specifically defined or analyzed for effectiveness in reducing potential impacts.

46 California Green Building Standards Code, Title 24, Part 11, of the California Code of Regulations.

47 The Board of Education's October 2003 Resolution on Sustainability and Design of High Performance Schools directs staff to continue its efforts to ensure that every new school and modernization project in the District, from the beginning of the design process, incorporate CHPS (Collaborative for High Performance Schools) criteria to the extent possible.

1. Introduction

Standard Conditions of Approval. LAUSD Standard Conditions of Approval (SCs) are uniformly applied development standards and were adopted by the LAUSD Board in November 2015.[48] The SCs have been updated since the adoption of the 2015 version in order to incorporate and reflect changes in the recent laws, regulations and the LAUSD's standard policies, practices and specifications. The SCs were compiled from established LAUSD standards, guidelines, specifications, practices, plans, policies, and programs, as well as typically applied mitigation measures. The SCs are divided into the 18 LAUSD CEQA environmental topics (Appendix G of the CEQA Guidelines plus Pedestrian Safety).[49] For each SC, compliance is triggered by factors such as the project type, existing conditions, and type of environmental impact. Compliance with every condition is not required.

Mitigation Measures. If, after incorporation and implementation of federal, State, and local regulations; CHPS prerequisite criteria; PDFs; and SCs, there are still significant environmental impacts, then feasible and project-specific mitigation measures are required to reduce impacts to less than significant levels. Mitigation under CEQA Guidelines Section 15370 includes:

- Avoiding the impact altogether by not taking a certain action or parts of an action.
- Minimizing impacts by limiting the degree or magnitude of the action and its implementation.
- Rectifying the impact by repairing, rehabilitating, or restoring the impacted environment.
- Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action.
- Compensating for the impact by replacing or providing substitute resources or environments.

Mitigation measures must further reduce significant environmental impacts above and beyond compliance with federal, State, and local laws and regulations; PDFs; and SCs.

The specific CHPS prerequisite criteria and ~~LAUSD~~ SCs are identified in the tables under each CEQA topic.[50] Federal, State, regional, and local laws, regulations, plans, and guidelines; CHPS criteria; PDFs; and ~~LAUSD~~ SCs are considered part of the Project and are included in the environmental analysis.[51]

[48] LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. (see Table 4-1 and Appendix F of the Program EIR).

[49] As of September 2016, an additional environmental topic has since been required by the State Office of Planning and Research (Tribal Cultural Resources). The LAUSD Environmental Checklist now has 19 topics.

[50] CHPS criteria are summarized. The full requirement can be found at http://www.chps.net/dev/Drupal/California.

[51] Where the LAUSD Standard Conditions of Approval identifies actions to be taken, it is understood that the Project proponent would implement all LAUSD actions for this Project.

1.5 IMPACT TERMINOLOGY

The following terminology is used to describe the level of significance of impacts.

- A finding of ***No Impact*** is appropriate if the analysis concludes that the Project would not affect the particular topic area in any way.
- An impact is considered ***Less Than Significant*** if the analysis concludes that it would cause no substantial adverse change to the environment and requires no mitigation.
- An impact is considered ***Less Than Significant with Mitigation Incorporated*** if the analysis concludes that it would cause no substantial adverse change to the environment with the inclusion of environmental commitments or other enforceable mitigation measures.
- An impact is considered ***Potentially Significant*** if the analysis concludes that it could have a substantial adverse effect on the environment. If any impact is identified as potentially significant, an EIR is required.

1.6 ORGANIZATION OF THE INITIAL STUDY

The content and format of this IS are designed to meet the requirements of CEQA and the State CEQA Guidelines. The conclusions in this IS are that the proposed Project would have no significant impacts with the incorporation of mitigation. This report contains the following sections:

Chapter 1, ***Introduction*** identifies the purpose and scope of the MND and supporting IS and the terminology used.

Chapter 2, ***Environmental Setting*** describes the existing conditions, surrounding land uses, general plan designations, and existing zoning at the proposed Project Site and surrounding area.

Chapter 3, ***Project Description*** identifies the location, background, and describes the proposed Project in detail.

Chapter 4, ***Environmental Checklist and Analysis*** presents the LAUSD CEQA checklist, an analysis of environmental impacts, and the impact significance finding for each resource topic. This section identifies the CHPS criteria, PDFs, SCs, and mitigation measures, as applicable. Bibliographical references and individuals cited for information sources and technical data are footnoted throughout this CEQA IS; therefore, a stand-alone bibliography section is not required.

Chapter 5, ***List of Preparers*** identifies the individuals who prepared the MND and supporting IS and technical studies and their areas of technical specialty.

Appendices have data supporting the analysis or contents of this CEQA IS.

A. Air Quality Technical Report

1. Introduction

B1. Protected Tree Report

B2. California Department of Fish and Wildlife, California Natural Diversity Database

C1. Historical Resources Technical Report

C2. Archeological and Paleontological Resources Report

D. Preliminary Geotechnical Report

E. Phase I Environmental Site Assessment

F. Preliminary Environmental Assessment - Equivalent Report

G. Removal Action Workplan

H. Noise and Vibration Technical Report

I. Traffic and Pedestrian Safety Memorandum

2. Environmental Setting

2.1 PROJECT LOCATION

Jefferson HS is located on an 18.9-acre site in a residential area, approximately two miles south of downtown Los Angeles and approximately 15 miles east of the Pacific Ocean (*Figure 1*, *Project Vicinity*). Specifically, the campus is located at 1319 East 41st Street within the southeast portion of the City of Los Angeles (Project Site). The campus comprises an entire block and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west,[52] and residences and East 33rd Street to the north (*Figure 2, Project Location*). The Assessor's Parcel Number (APN) for the Project Site is 5114-03-6900. Project implementation would not occur across the entire school campus, but on selected areas undergoing various levels of renovation over multiple phases. *Figure 3, Existing Site Plan* shows the existing site plan and buildings.

Direct access to the Project Site is provided by Hooper Avenue, East 41st Street, and Compton Avenue. Currently, the campus' main public entrance is located at the corner of East 41st Street and Compton Avenue, while the campus' student entrance is located on the corner of East 41st Street and Hooper Avenue.

Regional transportation facilities serving the Project vicinity include Interstate 110 (I-110), located approximately 1.75 miles west of the Project Site, and Interstate 10 (I-10) located approximately one-mile north of the Project Site. Local access to the I-110 is provided by Martin Luther King Jr. Boulevard and Jefferson Boulevard, and the I-10 is accessed by Long Beach Avenue.

Transit service to the Project Site is provided by the Los Angeles County Metropolitan Authority (Metro), which operates Bus Lines: 55/355 and 102, and the DASH Southeast Line which is operated by the Los Angeles Department of Transportation (LADOT). Regional service is provided by the Metro Blue Line, along Long Beach Avenue. The closest station to the Project Site is the Vernon Station, approximately 0.7-mile southeast of the Project Site.

2.2 SURROUNDING LAND USES

The campus is predominately surrounded by single- and multi- family residences on all sides, with the exception of a small limited industrial use to the east of the Project Site, along Compton Avenue. Morning Star Baptist Church is located south of the campus at the intersection of East 41st Street and Compton Avenue, residences surround the northern boundary of the campus and the Emmanuel Church of God in Christ is located across East 33rd Street on the corner of East 33rd Street and Compton Avenue alongside residences and an industrial site.

[52] Also South Hooper Avenue.

SOURCE: Los Angeles County GIS.

LAUSD Jefferson Comp Mod Project . D160789.01

Figure 1
Project Vicinity

SOURCE: NAIP 2014

LAUSD Jefferson Comp Mod Project . D160789.01

Figure 2
Project Location

2.3 CAMPUS HISTORY

The campus was initially constructed in 1917. The campus was essentially rebuilt following the Long Beach Earthquake in 1933. The primary period of significance for the campus is between 1935 and 1937 when the campus was rebuilt in the Streamline Moderne style. Buildings at the Project Site include: a two-story Administrative and Main Classroom Building, Assembly Building (Auditorium), Cafeteria Building, Science Building, two Gymnasiums, lunch shelter/service building, Mechanical Arts Building, Music Building, Homemaking Building, Industrial Arts Building, several additional buildings including the Metal Shop and Power and Pump Vaults, portable buildings, and modular structures.[53]

During the Phase I Getty Survey conducted on March 15, 2002, Jefferson HS was recommended eligible for the National Register of Historic Places (National Register) and California Register of Historical Resources (California Register) through survey evaluation and assigned California Historic Register (CHR) Status Codes of 3S and 3CS.[54] Jefferson HS was evaluated again in 2004, as a result of Section 106 of the National Historic Preservation Act of 1966 (Section 106) review, and formally determined eligible as an individual property for the National Register through consensus with the State Historic Preservation Office (SHPO), automatically listed in the California Register, and assigned a CHR Status Code of 2S2.[55] Lastly, Jefferson HS was re-evaluated by SurveyLA in March 2012 during the Office of Historic Resources' historic resources survey of the Southeast Los Angeles Community Plan Area (CPA), recommended eligible for the national, State, and local level as an individual resource and was assigned CHR Status Codes of 3S, 3CS, and 5S3.[56]

2.4 EXISTING CONDITIONS

Jefferson HS is an operational high school serving students in grades 9 through 12. After the traditional high school hours, the campus is used for the Jefferson Adult School. As previously noted, buildings at the Project Site include: a two-story Administrative and Main Classroom Building, Assembly Building (Auditorium), Cafeteria Building, Science Building, two Gymnasiums, lunch shelter/service building, Mechanical Arts Building, Music Building, Homemaking Building, Industrial Arts Building, several additional buildings including the Metal Shop and Power and Pump Vaults, portable buildings, and modular structures (see *Figure 3, Existing Site Plan*).

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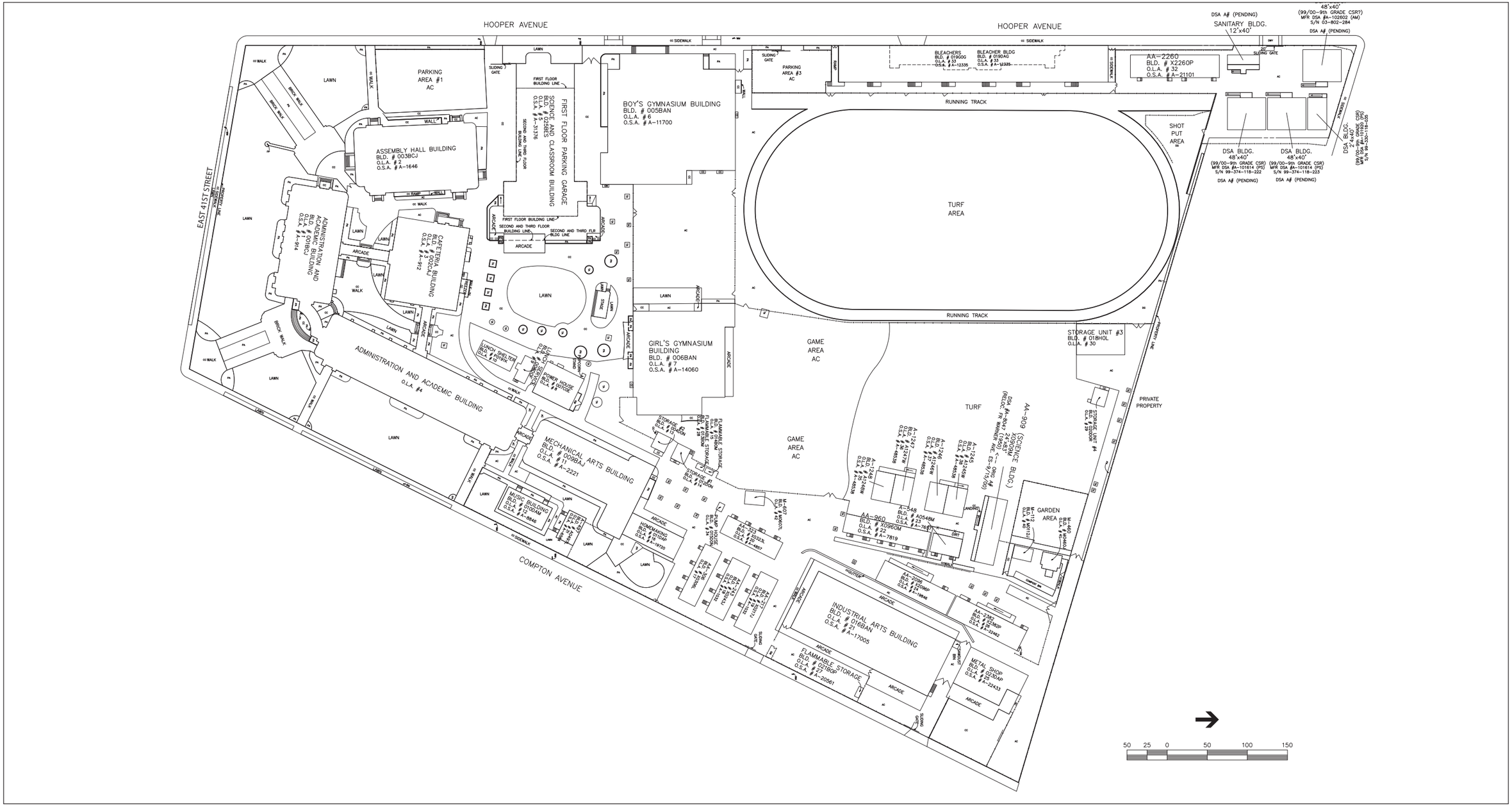
53 LAUSD. July 28, 2015. Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California 90011. Los Angeles, CA.

54 Leslie J. Heumann, SAIC, DPR Primary Record Form for Thomas Jefferson High School (March 15, 2002).

55 Office of Historic Preservation Historic Resources Inventory, Directory of Properties in the Historic Property Data File for Los Angeles County (April 5, 2012): 325.
Jefferson High School (Property Number of 146101) was assigned a CHR status code of 2S2 as result of a historic resources survey (DOR-19-04-0019-0000) and Project review (FEMA031024A) on March 16, 2004.

56 Galvin Preservation Associates, *Historic Resources Survey of Southeast Los Angeles: Historic Districts, and Multi-Property Resources*, Prepared for Office of Historic Resources, Department of City Planning (March 2012): 44-47, http://preservation.lacity.org/files/SELAAppendixCFinal3_12.pdf, accessed August 11, 2017.



SOURCE: LAUSD

LAUSD Jefferson Comp Mod Project . D160789.01

Figure 3
Existing Site Plan

2. Environmental Setting

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The City of Los Angeles General Plan Land Use designation for the school property is 'Public Facilities'. The zoning for the school property is [Q]PF-1XL. PF (Public Facilities), the designation for the use and development of publicly owned land, including public elementary and secondary schools. [Q] means additional restrictions on building design, landscape buffer, signs, etc.; '1' is Height District No. 1; and 'XL' is Extra Limited Height District where no building or structure shall exceed two stories, nor shall the highest point of the roof of any building or structure exceed 30 feet in height. The Project includes a new Gym that is 45.5 feet in height to the campus.

However, LAUSD anticipates that in accordance with Government Code Section 53094, the Board of Education, by a two-thirds vote of its members, will exempt the proposed Project from the City of Los Angeles Zoning Ordinance.

2.5 AGENCY REVIEWS AND APPROVALS

It is anticipated that the reviewing agencies that would review the IS for technical adequacy or may issue ministerial approvals or permits for the proposed Project would include, but may not be limited to, the following:

Reviewing Agencies

- California Department of General Services, Division of State Architect (DSA). Plan review and construction oversight, including structural safety, fire and life safety, and access compliance
- California Department of Transportation (Caltrans). Transportation permit for oversized vehicles on State highways
- State Office of Historic Preservation (OHP). May review of the IS/MND and Historic Resources Technical Report
- Los Angeles Regional Water Quality Control Board. Approval of water quality management plan
- South Coast Air Quality Management District. May review the applicable technical analyses, and review/file submittals for rules (as applicable)
- State Water Resources Control Board. Review of applicable permit coverage. General Construction Permit regulates stormwater and nonstormwater discharges associated with construction activities
- City of Los Angeles, Public Works Department. Permit for curb, gutter, and connections to offsite improvements (offsite improvements are not anticipated for this Project)
- City of Los Angeles, Fire Department. Approval of plans for emergency access and emergency evacuation
- City of Los Angeles, Department of Transportation. Approval of haul route

2. Environmental Setting

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3. Project Description

3.1 PROPOSED PROJECT

The proposed Project would include demolition, renovations, modernizations, and new construction at Jefferson HS; including the demolition and removal of existing buildings totaling approximately 116,000 square feet (sf), construction of new facilities totaling approximately 110,000 sf, and modernization of approximately 53,000 sf of buildings. *Table 3-1, Characteristics of Existing Buildings,* shows the buildings and modular buildings that would be demolished and removed and the buildings that would be renovated as a result of the proposed Project. Figure 3 shows the plot plan for the Project Site, including existing buildings and features on the site. *Figure 4, Preliminary Demolition Plan* provides an overview of the proposed building demolition, construction, and modernization.

As outlined in Table 3-1 and shown in Figure 4, the proposed Project would include demolition of the following:

- Music Building
- Home Economics Building[57]
- Gymnasium Building (Practice and Competitive)[58]
- Metal Shop Building
- Mechanical Arts Building
- Power House (Utility Building)
- Industrial Arts Building
- Lunch Shelter/Service Building
- Approximately 30 classrooms located in relocatable (or portable) buildings.

[57] Also referred to as the Homemaking Building

[58] Practice and competitive gymnasium spaces (also referred to as the Girls' Gymnasium Building and Boys' Gymnasium Building respectively).

SOURCE: LAUSD, FSD, 2015

LAUSD Jefferson Comp Mod Project . D160789.01

Figure 4
Preliminary Demolition Plan

TABLE 3-1
CHARACTERISTICS OF EXISTING BUILDINGS

Building/Site Plan Number	Building Name	Year Built	Building Type
Permanent Buildings/Structures to be Demolished/Removed			
Building 12/010DAM	Music Building	1951	Permanent
Building 16/011DAP	Home Economics[59]	1960	Permanent
Building 6/005BAN	Gymnasium Building (Competitive)	1955	Permanent
Building 25/023DAP	Metal Shop	1964	Permanent
Building 11/009BAJ	Mechanical Arts Building	1938	Permanent
Building 7/006BAN	Gymnasium Building (Practice)	1957	Permanent
Building 8/007C0E	Power House (Utility Building)	1915	Permanent
Building 21/016BAN	Industrial Arts Building	1959	Permanent
Building 34 / 015D0N	Pump House	1959	Permanent
012D0N	Storage #1	1938	Permanent
004D0N	Storage #2	1959	Permanent
014B0M	Flammable Storage	1953	Permanent
013B0M	Flammable Storage	1961	Permanent
Building 10/P0191K	Lunch Shelter Building	1941	Permanent
Building 9/008D0F	Lunch Service Building	1920	Permanent
Portable Buildings to be Removed			
X0217J	AA-217	1935	Portable
X0243J	AA-243	1935	Portable
A0497L	A-497	1949	Portable
A0548M	A-548	1950	Portable
A1245W	A-1245	1988	Portable
A1246W	A-1246	1988	Portable
A1247W	A-1247	1988	Portable
M0607L	M-607	1946	Portable
X0909M	AA-909	1950	Portable
X209P	AA-2096	1960	Portable
A1248W	A-1248	1988	Portable
X0960M	AA-960	1950	Portable
X2382P	AA-2382	1962	Portable
X0323L	AA-323	1947	Portable
X0306L	AA-306	1946	Portable

59 Also referred to as the Homemaking Building.

3. Project Description

Building/Site Plan Number	Building Name	Year Built	Building Type
Permanent Buildings to be Modernized and/or Upgraded			
Building 1/001BCJ	Administrative Building	1936	Permanent
Building 4/001BCJ	Academic Building	1936	Permanent
Building 2/003BCJ	Auditorium (Assembly Hall) Building	1937	Permanent
Building 3/002CAJ	Cafeteria Building	1936	Permanent
Permanent Buildings/Structures to Remain			
Building 5/025BES	Science and Classroom Building	1936	Permanent
Building 33/019DAG	Bleachers Building	1926	Permanent
019G0G	Bleachers	-	Permanent

SOURCE: LAUSD, 2016

3.1.1 Project Objectives

Projects developed under LAUSD's SUP, which includes Comprehensive Modernization Projects, are intended to provide facilities that improve student health, safety, and educational quality.

More specifically, the Board approved SUP goals and principals are:[60]

- Schools Should be Physically Safe and Secure
- School Building Systems Should be Sound and Efficient
- School Facilities Should Align with Instructional Requirements and Vision

Furthermore, six core objectives have been established for Comprehensive Modernization Projects undertaken under the SUP:[61]

- The buildings that have been identified as requiring seismic upgrades must be addressed.
- The buildings, grounds and site infrastructure determined to have significant/severe physical conditions that already do, or are highly likely (in the near future) to pose a health and safety risk or negatively impact a school's ability to deliver the instructional program and/or operate must be addressed.
- The school's reliance on relocatable buildings, especially for K-12 instruction, should be significantly reduced.

[60] LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Certified by the Board of Education on November 10, 2015.
[61] Ibid.

- Necessary and prioritized upgrades must be made throughout the school site in order to comply with the program accessibility requirements of the Americans with Disabilities Act (ADA) Title II Regulations, and the provisions of the Modified Consent Decree (MCD).
- The exterior conditions of the school site should be addressed to improve the visual appearance including landscape, hardscape, and painting.
- The interior physical conditions of classroom buildings that would otherwise not be addressed should be improved.

As these objectives, goals and principals are applied to the Jefferson HS campus and community, the following Project-specific objectives have been developed:

- Ensure that the buildings that have been identified as requiring seismic upgrades are addressed.
- Improve the overall functionality and utility of the campus.
- Direct limited bond funds to facilities with the greatest need, particularly at aged campuses where significant seismic/structural challenges and deterioration were identified by the District's Facilities Condition Assessment.
- Eliminate the reliance on portable classrooms.
- Maximize the use of limited bond funds to provide modern and permanent classroom facilities.
- Reconstruct and modernize Jefferson High School to provide an educational facility for students in the 21 century and beyond.
- Replace buildings and infrastructure that have reached the end of their useful lives.
- Reduce amount of stormwater runoff drainage and improve quality of runoff by increasing pervious surfaces on campus.
- Improve campus access and circulation especially for emergency vehicles and personnel.
- Provide upgrades throughout the school site in order to comply with the program accessibility requirements of the Americans with Disabilities Act (ADA) Title II Regulations, and the provisions of the Modified Consent Decree (MCD).
- Create a less congested campus to increase the safety and supervision of students.
- Increase energy efficiency of the campus by upgrading or replacing facilities and incorporating standards developed by the Collaborative for High Performance Schools (CHPS).

3. Project Description

The proposed Project would include construction of the following facilities that would be designed, constructed, and furnished/equipped to current code requirements and District design standards. *Figure 5, Proposed Site Plan*:

- New Athletics Building (Gymnasium): a new Gymnasium would be constructed generally within the location of the existing Mechanical Arts Building and Practice Gymnasium.
- New Lunch Pavilion and Quad: these areas would be remodeled to include a new outdoor amphitheater and green spaces.
- Baseball/Softball Field: A combined baseball/softball field would be created in the northeastern portion of the campus.
- New Classroom Building: This 2-story classroom building would provide general and specialty classrooms and support spaces. Additionally, a wellness center would be located in this building off Hooper Avenue and would be a part of the New Classroom Building.

Modernization and/or upgrades would be completed for the following buildings:

- Administrative Building (Building 1):[62] Interior remodeling would be completed throughout this building (including the Library) to accommodate relocated classroom and the exterior would be painted. The upgrades would also entail interior ADA programmatic access and structural (seismic) retrofits/improvements.[63]
- Main Classroom Building (Building 4):[64] Interior remodeling would be completed throughout this building to accommodate relocated classroom and the exterior would be painted. The upgrades would also entail interior ADA programmatic access and structural (seismic) retrofits/improvements.
- Cafeteria Building (Building 3): Structural (seismic) improvements would be completed within this building. The exterior of this building would also be painted.
- Auditorium (Assembly Hall) Building (Building 2): ADA programmatic access improvements would be completed within this building. ~~Several rows of seats may be removed and t~~The building's exterior would be painted.

[62] Also referred to along with the Main Classroom Building, Administrative Building, and the Administration and Academic Building (usually in conjunction with Building 4). Various documents for the Project Site that reference this building also refer to it as the: Administrative and Main Classroom Building, Administration Building, Administrative/or Administration/Library Building and Main Classroom Building.

[63] HMC Architects with input from IMEG (formerly TTG) Engineers, 2017. Thomas Jefferson High School Comprehensive Modernization Final Schematic Design, Structural Analysis.

[64] Also referred to as the Academic Building.

PARKING COUNT

- P1 **44** PARKING SPACES
- P2 **12** PARKING SPACES
- P3 **88** PARKING SPACES
- P4 **36** PARKING SPACES

TOTAL: 177 PARKING SPACES

LEGEND

(E) BUILDINGS

A1	ACADEMIC BUILDING
A2	ADMINISTRATION / ACADEMIC BUILDING
A3	CAFETERIA BUILDING
B	ASSEMBLY BUILDING
C	SCIENCE / CLASSROOM BUILDING
33	STADIUM / BLEACHERS

KEYNOTES

1	MAIN ENTRY
2	STUDENT ENTRY
3	HISTORIC 'GREAT LAWN'
4	SERVICE YARD
5	QUAD
6	STAGE
7	ELECTRICAL ENCLOSURE
8	HARDCOURTS
9	PLAYFIELDS
10	(E) TRACK & FIELD
11	GARDEN
12	STORAGE CONTAINERS
13	IRRIGATION CONTROLS
14	TENNIS COURTS
15	FLAMABLE STORAGE
P#	PARKING AREA

NOTE: *The building names are for reference with this figure only. Building names are not commensurate to the building names used by the District or in the report.

N

SOURCE: HMC Architects

Figure 5
Proposed Site Plan

Seismic retrofitting would be completed in compliance with the seismic safety requirements of the LAUSD Supplemental Geohazard Assessment Scope of Work, California Building Code, DSA, and CDE. A more detailed discussion of the approach describing the treatment, rehabilitation, and approach for each of these remaining historic building are provided in the following section 3.1.2.

Site upgrades that would be completed throughout the campus include:

- Site-wide infrastructure, including plumbing, electrical, and storm drain.
- Site-wide upgrades to remove identified and prioritized barriers to program accessibility.
- Landscape, hardscape, and exterior paint.

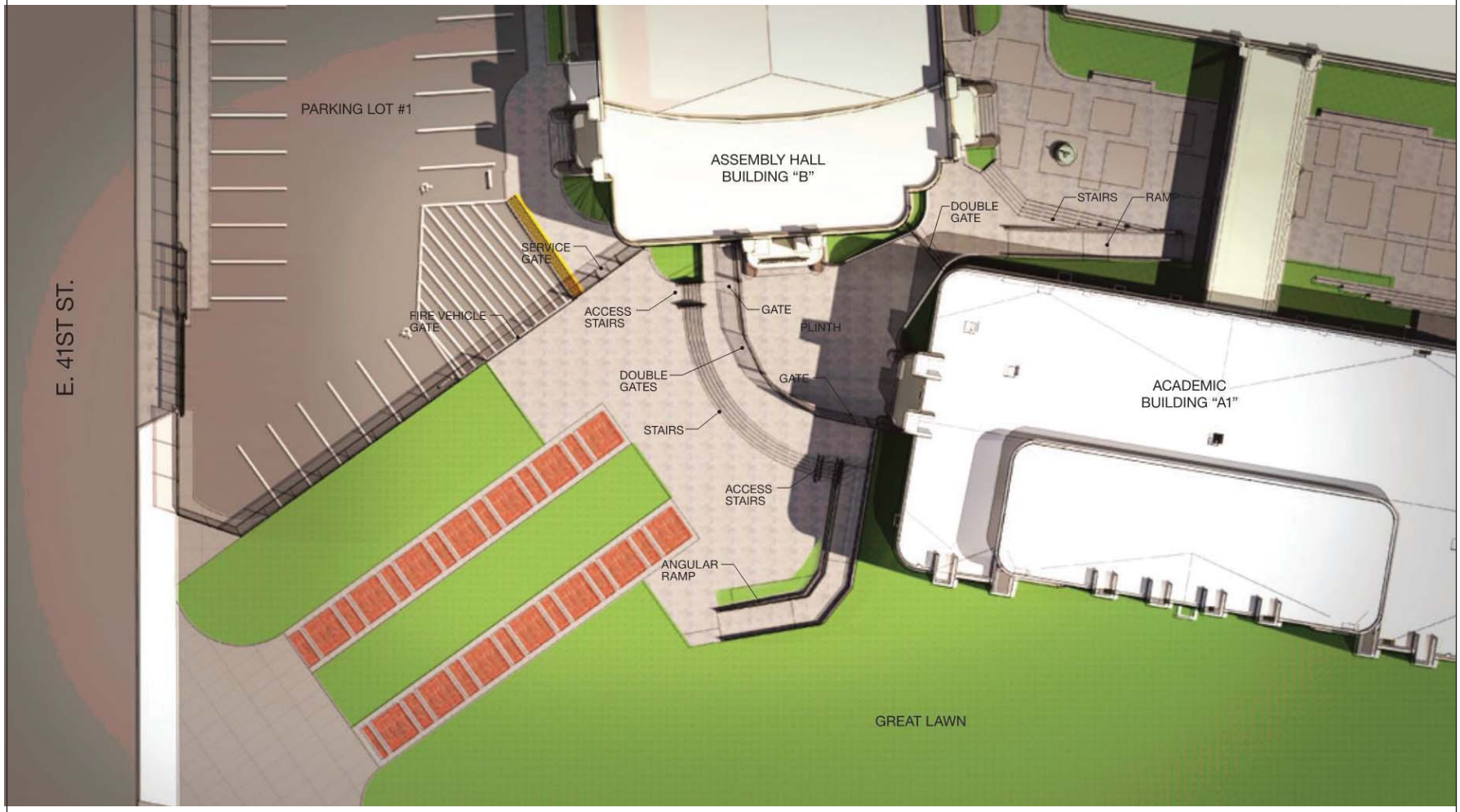
Improvements as required by the ADA, DSA, CEQA, Department of Toxic Substances Control (DTSC), Office of the Independent Monitor for ADA program accessibility, and any other required improvements or mitigations to ensure compliance with local, State, and/or federal facilities requirements.

3.1.2 Historic Resources Treatment/Approach

As discussed in the HRTR the landscapes and buildings at the Jefferson HS campus were originally classified as significant contributing and non-contributing with CDFs identified for each individual building and landscape. To facilitate planning efforts, the District identified each building, structure, and landscape in the Character-Defining Features Memorandum (CDFM) as "primary" (significant), "secondary" (contributing), and "tertiary" (contributing) character-defining features. These descriptors were used at times to inform the design process. The character-defining buildings and landscapes are the physical representations of the historical resource (potential Historic District) and as such are the most important features to retain. The current effort has determined that the campus is better defined as a potential historic district and the buildings and landscape features have been broken out into contributing and non-contributing resources. These classifications align with the determinations in the CDFM. The Project has been designed to preserve and enhance the majority of the contributing buildings and landscape. The design team included a qualified Historic Architect who worked to ensure that the specifications for design and implementation of the Project complied with the applicable historic preservation standards to achieve the Project objectives while also retaining the CDFs. Additionally, the proposed Project is designed to be implemented in a manner that complies with the LAUSD Design Guidelines and Treatment Approaches for Historic Schools.[65] The proposed Project is broken down into three distinct Project components that include a combination of restoration and rehabilitation of the majority of the contributing historic buildings alongside modernizations and seismic retrofits of the campus; site upgrades and landscape design improvements; and new construction, as described further below.

Figures 6, 7, 8, 9, and 10, *Contributing Buildings and Landscape Treatment/Approach* provide a preliminary draft depiction of the intended treatment/approaches for many of the restoration, repairs, and improvements outlined in this section for the site plan and landscape, Building 1, Building 2, Building 3, and Building 4.

[65] LAUSD. January 2015. Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. Los Angeles, CA.



SOURCE: HMC Architects

Figure 6

Historic Landscape and Buildings Treatment/Approach: Assembly Building (Auditorium) and Academic Building – Plinth Concept Plan

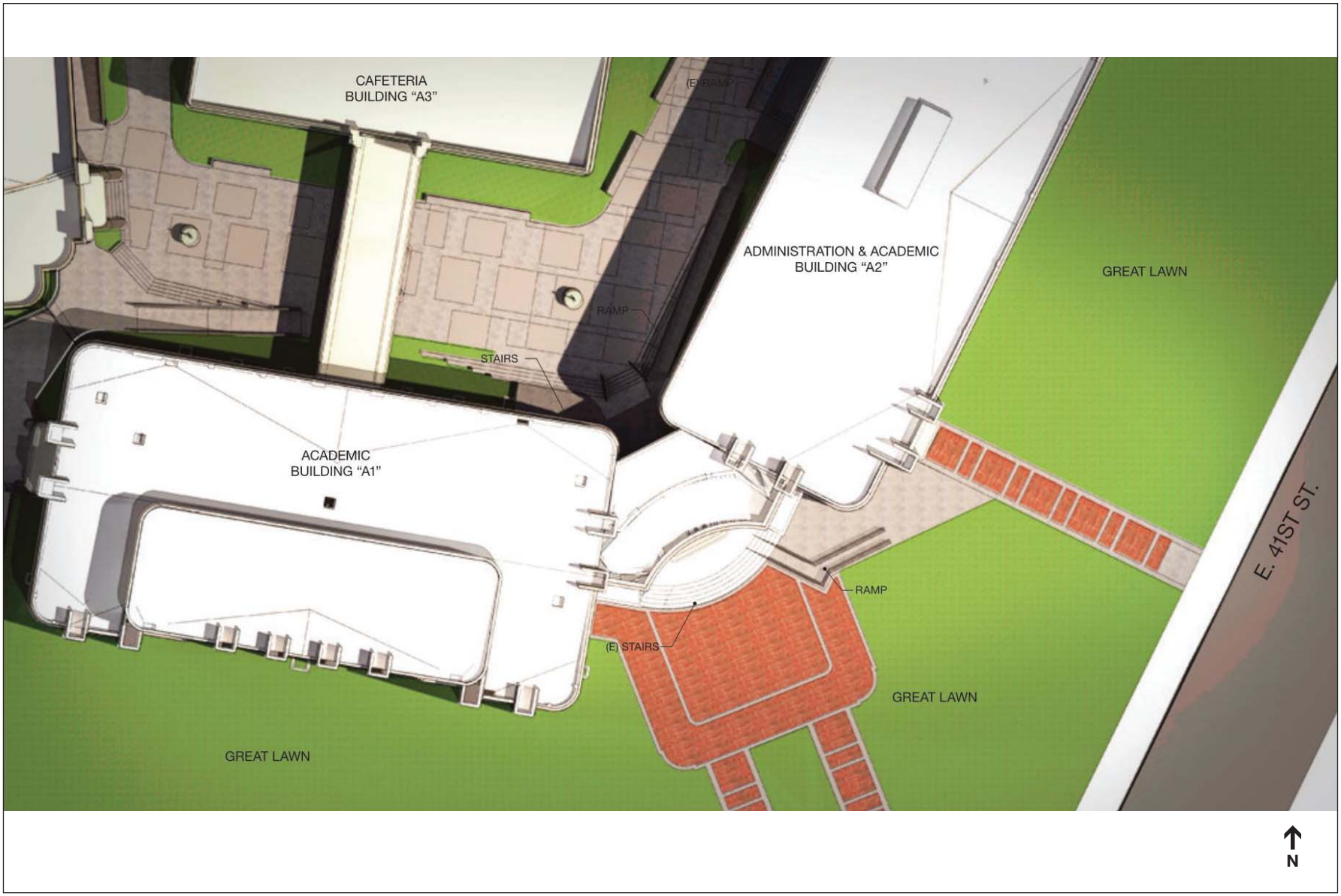
SOURCE: HMC Architects

Figure 7

Historic Landscape and Buildings Treatment/Approach: Student Entry – Corner of Hooper Avenue Perspective

SOURCE: HMC Architects

Figure 8
Historic Landscape and Buildings Treatment/Approach: View to Backside of Plinth



SOURCE: HMC Architects

LAUSD Jefferson Comp Mod Project . D160789.01

Figure 9

Historic Landscape and Buildings Treatment/Approach: Administration and Academic Buildings – Circulation Concept Plan

SOURCE: HMC Architects

Figure 10

Historic Landscape and Buildings Treatment/Approach: Administration and Academic Buildings – Stairs and Ramp View

3. Project Description

The District worked to balance the Project goals and objectives with the District's use of limited bond funds to upgrade and modernize the educational facilities with the greatest need in order to ensure that they are equitably available throughout the District (particularly at aged campuses where significant seismic/structural challenges and deterioration were identified by the District's Facilities Condition Assessment).[66] At Jefferson HS, 7 buildings are listed on the District's Assembly Bill (AB)-300 Criteria building List.[67] The Administrative and Classroom Building (Building 1 and Building 4), Auditorium Building (Building 2), Cafeteria Building (Building 3) along with both Gymnasium Buildings (Buildings 6 and 7), the Mechanical Arts Building (Building 11), Science & Classroom Building (Building 5), and Industrial Arts Building (Building 21), are all listed on the State of California's AB 300 List; a list identifies kindergarten through 12th grade school buildings that require detailed seismic evaluations to determine if they would be able to achieve the required life-safety performance metrics (which include a range of evaluations from structural support, foundation system, load resisting), during a seismic event.[68,69]

Site Plan and Landscape

- No changes are proposed to the trapezoid-shaped irregular lot
- The U-shaped relationship between Buildings 2, 1, and 4 (surrounding the west, east, and south sides of Building 3) would be retained
- The passageways (brick and concrete hardscape walkways) and drinking fountains at the courtyard would remain and be protected in place
- A raised plinth would be added between Buildings 1, and 2 leading into the courtyard and incorporating programmatic access requirements
- Irrigation would be added to the great lawn but the lawn (consisting of the green grass, mature trees, and planting layout) would be retained. In the event that it is impossible to replace the landscape shrubs comparable plants would be selected by the design team as replacements
- The temporary accessible ADA ramp would be removed from the front of Building 1 and a code compliant ramp would be added to the front of Building 4

66 LAUSD. 2017. Facilities Condition Assessment and AB 300 List for Jefferson HS. Los Angeles, CA.
67 LAUSD (AE Services). 2017. LAUSD AB-300 Criteria Building List. Los Angeles, CA.
68 Division of State Architects (DSA). Accessed 2017. AB 300. Available at: http://www.dgs.ca.gov/dsa/AboutUs/ab300.aspx
69 The Jefferson HS AB 300 List includes 62 buildings. All of which, with the exception of those noted, require no further action.

Administrative and Classroom Building 1

Exterior Alterations

- A new concrete, ADA-compliant (and DSA approved; building use and occupancy required)[70] exit would be provided at the interior quad side
- ~~S~~The exterior plaster ~~above~~covering windows would be removed to restore original window conditions. The exterior windows would be repaired ~~constructed~~ where required~~.~~ ~~, and ground floor windows would be replaced and repaired to match the original design~~.
- All roofing and mechanical equipment would be replaced

Interior Alterations

- Alterations would be completed in the interior for a new concrete shear wall. The Ross Dickinson mural in the library and existing plaster would be affected by this new wall. The Ross Dickinson mural would be repaired and restored in-place by a conservation artist, safely removed and stored offsite during modernization, and reinstalled when the library construction is complete. A conservation plan has been prepared by a Conservator of Paintings to ensure the safe treatment, removal, storage, and replacement of this mural[71]
- The existing gypsum plaster above the shelving in the library would be removed and mitigated at the location of the new shear wall.
- The elevator (that was not a part of the original building) would be removed to allow the lobby to be expanded. The alterations to the interior campus (quad side) entry to lobby would retain the curved walls connection between Building 1 and 4 and would insert the addition of an accessible and securable entrance that incorporates windows to allow natural light to access the lobby
- The floor circulation, stairs and corridors shall remain. The 2nd floor ~~of the~~ Library would be expanded to incorporate what originally was the 2nd floor corridor and adjacent classrooms.
- The interior design of the library would incorporate design elements that would distinguish boundaries where previous corridor walls used to be.
- Portions of the terrazzo floors on the first floor would require removal and abatement during the seismic upgrades. Prior to removal, the existing terrazzo floor would be photographed, and each color would be tested. Samples of the flooring would be removed in 2-foot sections for the purposes of comparing/matching to samples for replication purposes. These pieces would be replicated to match the existing design, color, texture, and other material qualities, ~~such as materials~~ to the extent feasible

[70] Per and consistent with the 2016 CHBC Section 8-501.3 and Section 8-102.1.5.
[71] ConserveArt Associates, Inc. 2017. Condition Report and Proposal for Treatment. Culver City, CA.

- No changes would occur to the curved concrete stairwells, with exception of added code compliant handrails.

Auditorium Building 2

- A lift for access to the 2nd floor control room would be added to the Auditorium Foyer
- The existing restrooms would be altered to ensure that they are ADA-compliant and California Building Code-compliant facilities to allow single-occupant and gender-neutral single occupant use
- The Auditorium stage would be modified to remove the south stairs and add a new lift for access to the stage
- An accessible, exterior ramp would be added at the east side of the building.

Cafeteria Building 3

- Seismic upgrade of roof structure bracing to exterior walls would be accomplished by opening up ceilings to gain access to existing roof structure. The work includes seismic retrofit work at the underside of existing roof trusses. Wall finishes would be removed and replaced as required to install structural connectors at walls. ~~Seismic upgrades are required in this building and would entail strengthening the building's structure (i.e., providing anchorage, strengthening an exit door, and installing a roof diaphragm) through the ceiling in order to avoid or to minimally altering the building.~~
- The exterior of the building would not be altered (it would only be painted along with all of the other remaining buildings)

Classroom Building 4

- A new concrete, code-required exit at interior quad side would be provided
- The interior would be altered for the addition of a new concrete shear wall
- All roofing and mechanical equipment would be replaced
- The textured plaster and smooth concrete exterior walls would be patched and repaired, where necessary
- ~~E~~The exterior plaster covering ~~above the~~windows would be removed, and windows~~to~~ repaired to original window conditions.
- ~~W~~The windows would be weatherproofed, repaired ~~habilitated~~ and or replaced where required ~~, and replaced and repaired~~to match the original design
- The existing streamline passageway would remain intact with no changes, other than roof replacement
- The major building features would be restored as necessary but would not be altered

3.1.3 Site Access, Circulation, and Parking

Currently, the school's main public entrance is located at the corner of East 41st Street and Compton Avenue, while the school's student entrance is located on the corner of East 41st Street and South Hooper Avenue. The proposed Project is designed to improve internal circulation, access (including the path of travel), and increase parking at the campus to ensure sufficient parking is available for the current need at the campus. Internal circulation routes would include vehicular access to adult education and community areas. The main public access point to the school would continue to be off of East 41st Street and Compton Avenue and the main student entry point would continue to be off East 41st Street and Hooper Avenue. Additional parking would be provided within the Project Site along Compton Avenue and along Hooper Avenue. In addition, the Project's provision for alternative transportation storage such as racks for bikes, scooters, and skateboards and onsite parking spaces to meet the campus demand would ease traffic congestion in the surrounding neighborhood by reducing the need to find on-street parking spaces. Figure 5 shows the proposed site plan and internal site circulation.

3.1.4 Campus-wide Landscape Improvements

The Jefferson HS campus is developed with: 1) buildings; 2) paved areas including parking lots, hardcourts, and walkways; and 3) landscaped areas, including turf playfields (i.e., football field and baseball/softball field) and ornamental landscaping with trees, shrubs, and/or grass. The proposed Project would include improvements to each of these areas. Landscape improvements may include repair or replacement of irrigation systems including lawn sprinklers and sprinkler controls, trees, shrubs and other vegetation; landscaping plant material; utilitarian landscape components, such as sprinkler piping; fencing and freestanding exterior walls. The proposed Project would remove two oak trees (which are protected by the City of Los Angeles) from the interior of the campus and up to 77 non-protected trees of various species.[72]

3.1.5 Infrastructure

The Project Site is currently served by existing utilities that are at the end of their service life and need replacement. Site-wide infrastructure improvements would be completed as part of the proposed Project for electrical, gas, sewer, water, and drainage.

Existing Storm Water Drainage Distribution

Stormwater sheet flows above ground and flows over the public sidewalks surrounding the campus. There are existing drain inlets, which are located in low spots, around the campus. As part of the Project, improvements to these areas would be completed. The existing campus synthetic running track and turf field was installed in 2011. A new underground drainage system was constructed at that time to convey the stormwater in this area so no changes to this new system are proposed as a part of the Project. Stormwater exits the campus north of the Boys Gymnasium and south of the bleachers into an existing 30-inch storm drain main in Hooper Avenue.

[72] Carlberg Associates. 2017. City of Los Angeles Protected Tree Report Thomas Jefferson High School. Los Angeles, CA.

As part of the new onsite stormwater improvements, stormwater would be collected by way of sheet flowing, and collection through catch basins and routing to new underground storm collection chambers. During an over flow event, the rain water would then be allowed to overflow and connect to existing offsite storm drainage system at Compton Avenue and Hooper Avenue. ~~During construction, a~~A pump system would be installed to pump storm water and route it as necessary to the existing storm-water and ~~to~~ route it as necessary to the existing storm-water systems.

Based on the findings from the geotechnical evaluation and infiltration testing, prepared by Gorian & Associates, Inc. in 201~~5~~6, the upper soils of the site (from 6 to 9 feet) are suitable for the construction of a stormwater infiltration system (greater than 0.5 inches/hour).[73]

Proposed Low Impact Development Best Management Practices

The Project would include Low Impact Development (LID) best management practices (BMPs) such as multiple installations of hydrodynamic separators which are pre-treatment BMPs using swirl concentration and continuous deflective separation to screen, separate and trap: trash, debris, sediment, and hydrocarbons from stormwater runoff. Underground storm water management chambers would also be installed as a stormwater retention chamber where water infiltrates into the sub-soils and is stored and percolates into the soil.

Water

Existing domestic water services, meters, backflow assemblies, pressure regulators (if needed) and onsite pipe systems would be upgraded. All existing underground water distribution pipes would be replaced to meet current LAUSD specification section 33 11 00 "Site Water Distribution Utilities" requirements. A new dedicated fire water looped system would be installed on campus including three new campus fire hydrants. Two new fire services, minimum 6-inches, would be constructed to service the looped fire water system. One would be installed along Compton Avenue and the other Hooper Avenue. Los Angeles Department of Water and Power (LADWP) would install the water services within the streets and stop at the property line where the school's contractor would pick up the work.

3.1.6 Utility Providers

LADWP provides electric and potable water service to the Project Site. The Southern California Gas Company (SCGC) provides natural gas to the Project Site. The City of Los Angeles Bureau of Sanitation is the sewer service provider for the Project Site.

3.1.7 Security and Safety Features

With the exception of the front lawn, the perimeter of the campus is currently surrounded by an 8-foot metal security fence. ~~The improvements to the Project site would include similar fencing.~~ New buildings are sited to create a secure perimeter, minimizing need for perimeter fencing. ~~Additionally, n~~New internal fencing would be installed to allow the athletic areas to be distinctly apart from the academic core of the campus to allow for

[73] Gorian & Associates. 2015, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California.

off-hour community access. A wellness center would also have a separate entrance off Hooper Avenue, apart from the main campus. All new structures would be equipped with fire suppression sprinkler systems and lighting on the exterior walls. All entries would be illuminated to provide safe access. The new/expanded parking lots and fields would have lighting that would be focused on the parking area and shielded to reduce glare and light spill-over. PDFs would be incorporated to ensure that these new sources would not create light spill-over greater than 2-foot candles onto adjacent residences (per SC-AE-7). Further, site lighting would be designed to have minimal offsite impact and contribution to sky glow. Outdoor lighting of architecture and landscape features and interior lighting would be designed to minimize light trespass to the outside from the point of focus or interior.

3.1.8 Sustainability Features

LAUSD is committed to sustainable construction principles, and has been a member of the Collaborative for High Performance Schools (CHPS) since 2001. CHPS has established criteria for the development of high performance schools to create a better educational experience for students and teachers~~ by designing the best facilities possible~~. CHPS-designed facilities are healthy, comfortable, energy efficient, material efficient, easy to maintain and operate, commissioned, and environmentally responsive. ~~Site, a building that teaches, safe and secure, community resource, stimulating architecture, and adaptable to changing needs.~~

School facilities seeking CHPS-certification complete a scorecard and must achieve a certain number of points to be certified. The proposed Project has exceeded the minimum requirements to qualify as a CHPS-certified school. Some of the sustainable design features that would be incorporated into the proposed Project include easy access to public transportation, onsite treatment of stormwater runoff, "cool-roof" building materials, lighting ~~which~~ that reduces light pollution, water and energy efficient design, water-wise landscaping, collection of recyclables, and sustainable and/or recycled-content building materials. The proposed Project's new buildings and structures would be designed to reduce energy use below current levels by incorporating modernized and energy-efficient features, which may include lighting, windows, electrical transformers, building insulation, or installation of irrigation smart controllers, etc. All new construction would exceed by 10 percent or more the California Title 24, Part 6 energy efficient standards.

3.1.9 Removal Action Workplan

A Preliminary Environmental Assessment Equivalent (PEA-E) was prepared for the northern portion of the campus.[74] Lead and arsenic were detected in soil samples exceeding residential screening levels. A Removal Action Workplan (RAW)[75] prepared for the Project outlines the proposed action at the campus which includes soil excavation, removal and disposal of the majority of soils impacts with contaminants of concern (COCs), lead and arsenic, identified during the PEA-E activities.

[74] Alta Environmental. 2017. Draft Preliminary Environmental Assessment Equivalent Investigation Report, Thomas Jefferson High School Comprehensive Modernization, 1319 E. 41st Street, Los Angeles, California 90255,

[75] Alta Environmental. 2017. Draft Removal Action Workplan for Soil, Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California.

The RAW outlines remedial goals developed and adopted for contaminated media at the Project Site that would achieve the following objectives:

- Minimize exposure of humans to the COCs in shallow soil through inhalation, dermal absorption, and ingestion;
- Minimize potential for migration of the COCs from the shallow soil to other media; and,
- Remove the majority of accessible impacts soils that exceed the established site-specific cleanup goals.

Soil excavation at the campus would include removal and disposal of soil containing the COCs (arsenic and lead) that exceed the cleanup goals listed in Table 1 of Appendix G of this IS/MND. The maximum assumed soil to be excavated and removed is approximately 300 cubic yards.[76] Confirmation soil sampling and analysis would be conducted to verify soil impact concentrations at the excavation bottom and sidewalls. Excavated soil would be either directly-loaded into waiting dump trucks or temporarily stockpiled within an onsite "holding area" using rubber-tire backhoe or similar equipment (e.g., wheel loader).[77] Excavated impacted soils would be transported to an appropriate landfill permitted to accept this waste type. Clean, imported soil and/or other fill material would include certificates, analytical data, and/or other supporting documents that indicate the import material is in conformance with cleanup criteria.[78] The RAW would be completed prior to construction for the comprehensive modernization.

3.1.10 Construction Phasing and Equipment

Construction Phasing

The proposed Project would be developed in five phases over approximately 5.5 years.[79] The construction schedule would have limited to no overlap between phases. Construction activities are anticipated to be initiated in 2019/2020 and to be completed in 2025.

Construction (Comprehensive Modernization Phases 1 to 5)

- **Phase 1**: This phase is anticipated to be completed in approximately 6 months. During Phase 1, portable buildings and structures located along Compton Avenue in the eastern portion of the site would be demolished and removed, as shown on Figure 4. After demolition and grading, this area

[76] Alta Environmental. 2017. Draft Removal Action Workplan for Soil, Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California.
[77] Alta Environmental. 2017. Draft Removal Action Workplan for Soil, Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California.
[78] Alta Environmental. 2017. Draft Removal Action Workplan for Soil, Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California.
[79] The analysis provided in this IS/MND conservatively assumes that construction will be completed within a 5-year construction period. The phasing components may overlap and the timeline may be refined as the final designs for the Project are complete.

would be used for construction staging and would include an electrical enclosure. The area east of the playing field would include the interim housing buildings.

- **Phase 2**: This phase is anticipated to be completed in approximately 24 months. During Phase 2, the portable buildings northeast of the playing field would be demolished. The Industrial Arts Building and Metal Shop Building interiors would be demolished as required for new proposed interim spaces. The interiors of the Industrial Arts and Shop Buildings would be remodeled. New portable buildings would be provided as interim housing in the same area.

- **Phase 3**: This phase is anticipated to be completed in approximately 24 months. During Phase 3, portable buildings, the Home Economics Building, Music Building, Mechanical Arts Building, Gymnasium Building, and Power House would be demolished. After demolition and grading activities, the development of the New Classroom Building, New Athletics Building, and new parking lots would be construction during this phase on the southeastern corner of the campus. The existing Administrative/Library Building interior remodeling would be completed during this phase. The new buildings would be built in two phases and would require the New Athletics Building construction to be finished before demolition of the existing Gymnasiums to allow for construction of the new Classroom Building.

- **Phase 4:** This phase is anticipated to be completed in approximately 24 months. During Phase 4, the Gymnasium (Boys' Gymnasium) would be demolished. The existing Administrative/Library Building interior would be demolished and remodeled during this phase. Improvements, including programmatic access and structural upgrades, for the Cafeteria Building and Auditorium Building would be completed during this phase. The new Lunch Pavilion and Quad would be constructed during this phase.

- **Phase 5:** This phase is anticipated to be completed in approximately six months. This phase would include the entire demolition of the interim housing area in the northeast portion of the campus and the buildings in the northwest corner of the campus. These areas would be redeveloped for parking, athletic courts and fields. The new parking area would be constructed internal to the campus along the Compton Avenue. The new tennis courts would be construction on the northwest corner of the campus the hardcourts and playing field and green house would be constructed in the eastern-northeastern area of the campus.

Table 3-2 describes the off-road construction equipment assumed to be used during construction activities. This list is based on assumptions provided by LAUSD, defaults generated using the CalEEMod model, and experience with other similar projects, as appropriate.

3. Project Description

TABLE 3-2
CONSTRUCTION EQUIPMENT

Description	Off-Road Equipment Type	Number
Utilities By-Pass and Interim Housing	Cranes	1
	Forklifts	1
	Generator Sets	1
	Tractors/Loaders/Backhoes	1
	Haul Trucks/Pickups	1
Demolition of Existing Structures and Development of New Structures	Concrete/Industrial Saws	1
	Rubber Tired Dozers	2
	Tractors/Loaders/Backhoes	4
	Graders	1
	Forklifts	2
	Generator Sets	2
	Cement and Mortar Mixers	2
	Pavers	1
	Rollers	1
	Water Trucks	-
	Haul Trucks/Pickups	-
Renovations/Remodeling, Removal of Temporary Buildings	Concrete/Industrial Saws	1
	Rubber Tired Dozers	2
	Tractors/Loaders/Backhoes	3
	Graders	1
	Forklifts	1
	Generator Sets	1
	Cement and Mortar Mixers	1
	Pavers	1
	Rollers	1
	Water Trucks	-
	Haul Trucks/Pickups	-

4. Environmental Checklist and Analysis

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- ☐ Aesthetics
- ☐ Agriculture & Forestry Resources
- ☐ Air Quality
- ☐ Biological Resources
- ☐ Cultural Resources
- ☐ Geology & Soils
- ☐ Greenhouse Gas Emissions
- ☐ Hazards & Hazardous Materials
- ☐ Hydrology & Water Quality
- ☐ Land Use & Planning
- ☐ Mineral Resources
- ☐ Noise
- ☐ Pedestrian Safety
- ☐ Population & Housing
- ☐ Public Services
- ☐ Recreation
- ☐ Transportation & Traffic
- ☐ Tribal Cultural Resources
- ☐ Utilities & Service Systems
- ☐ Mandatory Findings of Significance

DETERMINATION

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions on the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

4. Environmental Checklist and Analysis

EVALUATION OF ENVIRONMENTAL IMPACTS:

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants based on a project-specific screening analysis).
2) All answers must take account of the whole action involved, including offsite as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less that significant with mitigation incorporated, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
4) "Less Than Significant with Mitigation Incorporated" applies where the incorporation of a mitigation measure has reduced an effect from "Potentially Significant Impact" to "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analysis," as described in (5) below may be cross referenced).
5) Earlier analysis must be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration (CEQA Guidelines Section 15063 [c)][3][D]). In this case, a brief discussion should identify the following:
   a) Earlier Analysis Used. Identify and state where they are available for review.
   b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
   c) Mitigation Measures. For effects that are "Less Than Significant with Mitigation Measures Incorporated," describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the Project.
6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7) Supporting Information Sources: A sources list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8) The explanation of each issue should identify:
9) The significance criteria or threshold, if any, used to evaluate each question, and
10) The mitigation measure identified, if any, to reduce the impact to less than significance.
11) See Appendix D of the SUP Program EIR for Special CEQA Requirements Under State School Facility Program. This additional analysis is found under ENVIRONMENTAL IMPACTS, Sections III. AIR

Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code Section 21080.3.1? No Native American tribes have requested notification or consultation through the Public Resources Code Section 21080.3.1 process. LAUSD has received project-specific comment letters (which do not constitute Public Resources Code Section 21080.3.1 requests for consultation) from tribal representatives and have responded to these letters through the applicable CEQA process and/or coordinated with the tribal representatives, as appropriate.

Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process (see Public Resources Code Section 21083.3.2). Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code Section 5097.94 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code Section 21082.3(c) contains provisions specific to confidentiality.[80]

[80] Final Text for tribal cultural resources update to Appendix G: Environmental Checklist Form. 2016, September 29. The AB 52 regulations adopted by the California Natural Resources Agency were approved by the Office of Administrative Law, and will appear in the California Code of Regulations. Copies of the rulemaking materials can be found at: http://resources.ca.gov/ceqa.

4. Environmental Checklist and Analysis

4.1 AESTHETICS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS. Would the project:				
a. Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings, within a State scenic highway?	☐	☐	☐	☒
c. Substantially degrade the existing visual character or quality of the site and its surroundings?	☐	☐	☒	☐
d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

Discussion

The Program EIR includes ~~Standard Conditions of Approval(~~SCs~~)~~ for minimizing impacts to the aesthetic resources of the existing environment in areas where future projects would be implemented under the SUP. Applicable SCs related to aesthetic resource impacts associated with the proposed Project are provided below in *Table 4.1-1*.

TABLE 4.1-1
AESTHETIC RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-AE-1	**School Design Guide.** This document outlines measures for re-use rather than destruction of historical resources. Requires the consideration of architectural appearance/consistency and other aesthetic factors during the preliminary design review for a proposed school upgrade Project. Architectural quality must consider compatibility with the surrounding community.
SC-AE-2	**School Design Guide** This document outlines measures to reduce aesthetic impacts around schools, such as shrubs and ground treatments that deter taggers, vandal-resistant and graffiti-resistant materials, painting, etc.
SC-AE-3	LAUSD shall assess a proposed Project's consistency with the general character of the surrounding neighborhood, including any proposed changes to the density, height, bulk, and setback of new building (including stadium), addition, or renovation. Where feasible, LAUSD shall make appropriate design changes to reduce or eliminate viewshed obstruction and degradation of neighborhood character. Such design changes could include, but are not limited to, changes to campus layout, height of buildings, landscaping, and/or the architectural style of buildings.
SC-AE-7	LAUSD shall reduce the lighting intensity from the new sources on adjacent residences to no more than two foot-candles, measured at the residential property line. LAUSD shall utilize hoods, filtering louvers, glare shields, and/or landscaping as necessary to achieve the standard. The lamp enclosures and poles shall also be painted to reduce reflection. Following installation of lights the lighting contractor shall review and adjust lights to ensure the standard is met.

Applicable SCs	Description
SC-AE-8	Design site lighting and select lighting styles and technologies to have minimal impact offsite and minimal contribution to sky glow. Minimize outdoor lighting of architectural and landscape features and design interior lighting to minimize trespass outside from the interior. International Dark-Sky Association (IDA) and the Illuminating Engineering Society (IES) Model Lighting Ordinance (MLO) shall be used a guide for environmentally responsible outdoor lighting. The MLO outdoor lighting has outdoor lighting standards that reduce glare, light trespass, and skyglow. The Joint IDA-IESNA Model Outdoor Lighting Ordinance (MLO) uses lighting zones (LZ0-4) which allow the District to vary the stringency of lighting restrictions according to the sensitivity of the area as well as consideration for the community. The MLO also incorporates the Backlight-Uplight-Glare (BUG) rating system for luminaires, which provides more effective control of unwanted light. IDA-IESNA Model establishes standards to: • Limit the amount of light that can be used • Minimize glare by controlling the amount of light that tends to create glare • Minimize sky glow by controlling the amount of uplight • Minimize the amount of offsite impacts or light trespass
SC-CUL-1	**Design Team to Include Qualified Historic Architect** For campuses with qualifying historical resources under CEQA, the Design team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as Project plans progress, with the Secretary of the Interior's Standards and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2). For Projects involving structural upgrades to historic resources, the Design team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated Project-level experience in Historic Preservation. The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the *LAUSD Design Guidelines and Treatment Approaches for Historic Schools*. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards.
SC-CUL-2	**Role of Historic Architect on Design Team** The tasks of the Historic Architect on the Design team shall include (but not necessarily be limited to) the following: 1. The Historic Architect shall work with the Design team and LAUSD to ensure that Project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall work with the Design team throughout the design process to develop Project options that facilitate compliance with the applicable historic preservation standards. 2. For new construction, the Historic Architect shall work with the Design team and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus. 3. For modernization and upgrade Projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design team and LAUSD to ensure that specifications for design and implementation of Projects comply with the applicable historic preservation standards. 4. The Historic Architect shall participate in design team meetings through all phases of the Project through 100 percent construction drawings, pre-construction, and construction phases. 5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal Project components and

Applicable SCs	Description
	treatment approaches comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The memos will be reviewed by LAUSD and incorporated into the Mitigation Monitoring and Report Plan (MMRP) for the Project. 6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources. 7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or onsite storage. This shall include detailed instructions on maintaining and protecting in place relevant features. 8. The Design team and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process.

Impact Analysis

Would the Project:

a) Have a substantial adverse effect on a scenic vista?

No Impact. Scenic vistas generally include extensive panoramic views of natural features, unusual terrain, or unique urban or historic features, for which the field of view can be wide and extend into the distance, and focal views that focus on a particular object, scene or feature of interest. The Project Site is located south of downtown Los Angeles, and there is no single predominant pattern in the area extending south and west from downtown Los Angeles. The area's land uses are diverse, including industrial uses among large tracts of medium-density housing. Downtown Los Angeles is highly urbanized, featuring a blend of commercial, light and heavy industry, and skyscraper/office land uses. The urban nature of downtown Los Angeles represents a regional aesthetic resource, with a distinctive skyline that is widely visible throughout the region , and from the Project Site.[81] Construction of the new buildings (particularly the New Athletics Building) would enhance views of the downtown Los Angeles skyline. The campus upgrade is specifically designed to incorporate and to provide multiple views of the downtown Los Angeles skyline from the campus where it is currently not visible. The Project would occupy a similar visual field as the current conditions and would not significantly impact existing street views or other scenic vistas in the surrounding area. Therefore, the Project would have no impact on scenic vistas. No mitigation or further study is required.

[81] LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?

No Impact. The California Scenic Highway Program seeks to preserve and protect areas of outstanding natural beauty that are visible from State highways. The Program EIR lists highways and corridors considered eligible for Scenic Highway Designation in Table 5.1-1.[82] The Project Site is not located within or immediately near a Scenic Highway, Byway, Route, or Corridor designated by the California Department of Transportation (Caltrans) or the Los Angeles County General Plan.[83]The nearest designated State scenic highway to the site is State Route 2 (SR-2; Angeles Crest Highway) more than 10 miles to the north.[84] The proposed structures associated with the Project would not be visible from any designated scenic highway. Project development would not result in impacts to scenic resources within a designated State scenic highway. No impact would occur. No mitigation or further study is required.

c) Substantially degrade the existing visual character or quality of the site and its surroundings?

Less Than Significant Impact. The entire campus meets the definition of a historical resource under CEQA. In a 2015 Character-Defining Features Memorandum (CDFM) for Jefferson HS, landscapes and buildings on the campus were evaluated and classified contributing and non-contributing buildings, structures, and features.[85] The CDFM and the Historic Resources Technical Report (HRTR) are found in Appendix C of this IS/MND. The primary period of significance for Jefferson High School was identified as the period between 1935 and 1937 when the campus was rebuilt in the Streamline Moderne style following the Long Beach earthquake of 1933. The CDFM identified the U-shaped site plan of Buildings 1, 2, 3, and 4 (historic core); the landscape, hardscape, and open space fronting East 41st Street and Compton Avenue and surrounding the historic core. Jefferson HS is designed in the Streamline Moderne style, and character-defining features of the campus generally include the site plan of the 1930s-era buildings, landscape, and hardscape as well as the curving forms, long horizontal lines, and smooth exterior walls of the buildings themselves. Additional interior character-defining features of the Administration and Auditorium Buildings (Buildings 1 and 2) include circulation plans, various Streamline Moderne-style decorative elements, oil paintings by Ross Dickinson, terrazzo floors, and light fixtures.

The proposed Project would incorporate measures from the LAUSD School Design Guide to protect the character and quality of the site and its surroundings. For example, the Project design team included a qualified historic architect who provided input on the design throughout the planning phase. The Project objectives and designs have been extensively reviewed over several years by the design team to provide a design that was sensitive to the historic nature of the campus and that met the current and future academic, programmatic,

82 Ibid.

83 CalTrans, Scenic Highways, Los Angeles County. Available at: http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/, accessed August 15 2017.

84 California Department of Transportation (Caltrans). 2011, September 7. California Scenic Highway Mapping System. Available at: http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/index.htm, accessed August 15 2017.

85 LAUSD (PCR Services), Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California 90011, Prepared for Los Angeles Unified School District (LAUSD), July 28, 2015.

and operational needs of the students and campus. The new buildings have been designed to be fully integrated with Jefferson HS in terms of scale, materials, and landscaping.

The Project would also implement SCs that are designed to retain the visual character and quality of the site. Implementation of SC-AE-1 requires the consideration of architectural appearance/consistency and other aesthetic factors during the preliminary design review for school upgrades. SC-AE-1 requires that architectural quality consider compatibility with the surrounding community. Under SC-AE-1, reuse rather than destruction of historic resources is the preferred method, with the multiple goals of: 1) retaining and preserving the historic character of a building, structure, or site; treating distinctive architectural features or examples of skilled craftsmanship with sensitivity; concealing reinforcement required for structural stability or life, safety, or mechanical systems; and conducting surface cleaning of historic structures by the gentlest means possible. SC-AE-3 would also help minimize the likelihood of degraded visual character or quality during Project implementation. SC-AE-3 requires appropriate design changes to reduce or eliminate significant adverse aesthetic impacts resulting from a proposed school project's building or site design. These design changes could include, but are not necessarily limited to, changes to the campus layout, height of buildings, and/or architectural style of buildings. ~~LAUSD~~ SC-CUL-1 and SC-CUL-2 would ensure the proposed modernization of contributors and the design of new buildings would conform to the Secretary of the Interior's Standards for Rehabilitation, specifically Standards 9 and 10 for new construction (as discussed in the Historic Resources Technical Report for the Project Appendix C1), and LAUSD requirements and guidelines for the treatment of historical resources under the guidance of a qualified historic architect.

The Project would occupy a similar visual field as the current conditions and would not significantly impact existing street views or other scenic vistas in the surrounding area. The Project would incorporate recommendations from the LAUSD School Design Guide to protect unique or historic features. Implementation of SC-CUL-1, SC-CUL-2, SC-AE-1, and SC-AE-2 would ensure that impacts to visual character or quality would be less than significant. No mitigation or further study is required.

d) Create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area?

Less Than Significant Impact. The proposed Project would result in less-than-significant impacts related to light and glare for the following reasons.

Light Impacts

The campus contains two primary sources of light: 1) light emanating from building interiors that passes through windows and 2) light from exterior sources (e.g., street lighting, parking lot lighting, building illumination, security lighting, and landscape lighting). Depending upon the location of the light source and its proximity to adjacent light-sensitive use (e.g., residences), light introduction can be a nuisance, affecting adjacent areas and further diminishing the view of the clear night sky in an urban setting like the Project Site. Light spillage is typically defined as unwanted illumination from light fixtures on adjacent properties.

The Project Site is located within a commercial and residential area. Existing lighting conditions in the Project area include light emanating from building interiors, security lights and the surrounding commercial and

residential land uses, as well as nearby street lighting. There are residential uses located north, east, south and west of the Project Site.

The perimeter of the proposed new Classroom Building and Gymnasium would have new light fixtures attached to exterior walls. All entries would be illuminated to provide safe access. The new parking lot along the eastern boundary of the Project Site would also have security lighting on poles, that would be focused and shielded downward to reduce glare and light spillover. With use of shields and the orientation of the lights, site lighting would be designed to have minimal off-site impact and contribution to sky glow. Interior lighting would be designed to minimize light trespass to the outside from the interior. PDFs and SCs (which require that light intrusion is minimized) would be incorporated to ensure that these new sources would not create light spill-over greater than 2-foot candles onto adjacent residences. The Project's proposed parking and security, landscaping, and softball field lighting is expected to contribute to ambient nighttime illumination in the Project vicinity. However, lighting would be consistent with the existing lighting surrounding the campus and ~~LAUSD~~ SCs would also be included to reduce the potential for light spillover to adjacent properties. Implementation of ~~LAUSD~~ SC-AE-7 and SC-AE-8 would ensure that site lighting would have minimal undesired offsite impacts. No mitigation or further study is required.

Glare Impacts

Buildings with large facades constructed of reflective surfaces (e.g., brightly colored building façades, metal surfaces, and reflective glass) could increase existing levels of daytime glare. The proposed facilities would be constructed with limited high-glare materials. Implementation of SC-AE-6 and SC-AE-7 would reduce glare impacts to pedestrians, residences, drivers and sports teams. Given the minimal use of high-glare materials, reflective glare impacts would be less than significant. No mitigation or further study is required.

4.2 AGRICULTURE AND FORESTRY RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the State's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. -- Would the Project:				
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b. Conflict with existing zoning for agricultural use, or a Williamson Act Contract?	☐	☐	☐	☒
c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526) or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d. Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

Impact Analysis

Would the Project:

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. The Project Site is currently developed and void of any agricultural uses. The California Department of Conservation Important Farmland Map for Los Angeles identified the Project Site as urban and built-up land. Further, there is no Prime Farmland, Unique Farmland, or Farmland of Statewide Importance located adjacent to the Project Site.[86] Therefore, no impact to Prime Farmland, Unique Farmland, or Farmland of Statewide Importance would occur. No mitigation or further study is required.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. A Williamson Act contract is an agreement between private landowners and their city and/or county where the landowner voluntarily restricts their land to agriculture and compatible open-space uses. The Project Site is void of agricultural uses and does not include land enrolled in a Williamson Act contract.[87] Therefore, no impact would occur regarding conversion of existing agriculture uses or Williamson Act contracts. No mitigation or further study is required.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. The proposed Project would not conflict with existing zoning of forest land or cause rezoning of forest land, timberland, or timberland zoned for Timberland Production. The Project area is currently zoned as [Q]PF-1XL. The proposed Project does not involve any changes to current General Plan land use or zoning designations for forest land, or timberland. Additionally, there are no timberland-zoned production areas within the Project Site or surrounding areas.[88] Therefore, no impact to forest land or timberland would occur. No mitigation or further study is required.

[86] California Department of Conservation (CDC), 2017. California Important Farmland Finder. Available at: http://maps.conservation.ca.gov/ciff/ciff.html, accessed August 15, 2017.
[87] CDC, 2016.Los Angeles County Williamson Act FY 2016/2016 Map. 2016.
[88] Los Angeles County Department of Regional Planning, 2017. Planning and Zoning Information, GIS-Net 3. SEA Layer. Available at: http://gis.planning.lacounty.gov/GIS-NET3_Public/Viewer.html, accessed April, 2018.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. The Project Site and surrounding areas contain no forest land. Thus, implementation of the proposed Project would result in no impacts related to the loss or conversion of forest land to non-forest use. No mitigation or further study is required.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No Impact. As discussed in II. a.-d., the Project Site does not contain agricultural or forest uses. The Project Site is developed with school facilities. No changes to the existing environment would occur from implementation of the proposed Project that could result in conversion of farmland to nonagricultural use or forest land to non-forest use. Thus, no impact would occur. No mitigation or further study is required.

4.3 AIR QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project:				
a. Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b. Violate any air quality standard or contribute substantially to an existing or Projected air quality violation?	☐	☐	☒	☐
c. Result in a cumulatively considerable net increase of any criteria pollutant for which the region is non-attainment under an applicable federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	☐	☐	☒	☐
d. Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
e. Create objectionable odors affecting a substantial number of people?	☐	☐	☒	☐

Discussion

The Program EIR includes SCs for reducing impacts to air quality in areas where future projects would be implemented under the SUP. Applicable SCs related to Project air quality impacts are provided in *Table 4.3-1*, below. The analysis below is based on the Air Quality Technical Report[89] prepared for the proposed Project (Appendix A).

TABLE 4.3-1
AIR QUALITY STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-AQ-2	LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment.
SC-AQ-3	LAUSD's construction contractor shall: • Maintain slow speeds with all vehicles. • Load impacted soil directly into transportation trucks to minimize soil handling. • Water/mist soil as it is being excavated and loaded onto the transportation trucks.

[89] ESA, 2018. Los Angeles Unified School District, Thomas Jefferson High School Comprehensive Modernization Project. Prepared for Los Angeles Unified School District. April, 2018.

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Applicable SCs	Description
	• Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site. • Minimize soil drop height into transportation trucks or stockpiles during dumping. • During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks. • Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed. • Place stockpiled soil on polyethylene sheeting and cover with similar material. • Place stockpiled soil in areas shielded from prevailing winds.
SC-AQ-4	LAUSD shall prepare an air quality assessment: If site-specific review of a school construction Project identifies potentially significant adverse regional and localized construction air quality impacts, then LAUSD shall implement all feasible measures to reduce air emissions below the South Coast Air Quality Management District (SCAQMD) regional and localized significance thresholds. LAUSD shall mandate that construction bid contracts include the measures identified in the air quality assessment. Measures shall reduce construction emissions during high-emission construction phases from vehicles and other fuel driven construction engines, activities that generate fugitive dust, and surface coating operations. Specific air emission reduction measures include, but are not limited to, the following: <u>Exhaust Emissions</u> • Schedule construction activities that affect traffic flow to off-peak hours (e.g. between 10:00 AM and 3:00 PM). • Consolidate truck deliveries and/or limit the number of haul trips per day. • Route construction trucks off congested streets. • Employ high pressure fuel injection systems or engine timing retardation. • Utilize ultra-low sulfur diesel fuel, containing 15 parts per million (ppm) sulfur or less (ULSD) in all diesel construction equipment. • Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower. • Restrict non-essential diesel engine idle time, to not more than five consecutive minutes. • Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction. • Utilize electric or alternatively fueled equipment, if feasible. • Utilize construction equipment with the minimum practical engine size. • Utilize low-emission on-road construction fleet vehicles. • Ensure construction equipment is properly serviced and maintained to the manufacturer's standards. <u>Fugitive Dust</u> • Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for ten days or more). • Replace ground cover in disturbed areas as quickly as possible. • Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water). • Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip. • Pave construction roads that have a traffic volume of more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles. • Pave all construction access roads for at least 100 feet from the main road to the Project Site.

Applicable SCs	Description
	• Water the disturbed areas of the active construction site at least three times per day, except during periods of rainfall. • Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a five percent or greater silt content. • Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph). • Apply water at least three times daily, except during periods of rainfall, to all unpaved road surfaces. • Limit traffic speeds on unpaved road to 15 mph or less. • Prohibit high emission causing fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD. • Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials. • Limit the amount of daily soil and/or demolition debris loaded and hauled per day. General Construction • Utilize ultra-low volatile organic compounds (VOCs) or zero-VOC surface coatings. • Phase construction activities to minimize maximum daily emissions. • Configure construction parking to minimize traffic interference. • Provide temporary traffic control during construction activities to improve traffic flow (e.g., flag person). • Develop a trip reduction plan for construction employees. • Implement a shuttle service to and from retail services and food establishments during lunch hours. • Increase distance between emission sources to reduce near-field emission impacts. • Require construction contractors to document compliance with the identified mitigation measures.

Impact Analysis

Would the Project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impact. The Project Site is located within the Air Basin. The South Coast Air Quality Management District (SCAQMD) is required, pursuant to the CAA, to reduce emissions of criteria pollutants for which the Air Basin is in non-attainment (i.e., ozone, PM10, and PM2.5). The Project would be subject to the SCAQMD's Air Quality Management Plan (AQMP), which contains a comprehensive list of pollution control strategies directed at reducing emissions and achieving ambient air quality standards.[90] These strategies are developed, in part, based on regional population, housing and employment projections prepared by the SCAG, the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. A project is consistent with the AQMP if it is consistent with the population, housing and

[90] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp. Accessed April 2018.

employment assumptions that were used in the development of the AQMP. The Project is not designed for growth and as such is not a large, regionally significant project that would affect the regional growth projections made by the SCAG and used by the SCAQMD in formulating its AQMP. The student and faculty population at the school would not increase as a result of the Project.

Key elements of the AQMP include implementing fair-share emissions reductions strategies at the federal, State, and local levels; establishing partnerships, funding, and incentives to accelerate deployment of zero and near-zero-emissions technologies; and taking credit from co-benefits from greenhouse gas, energy, transportation and other planning efforts.[91] The strategies included in the 2016 AQMP are intended to demonstrate attainment of the NAAQS for the federal non-attainment pollutants O_3 and $PM_{2.5}$.[92] Provisions of the 2016 AQMP would not affect the proposed Project's consistency with the AQMP.

Construction

Under this criterion, the SCAQMD recommends that lead agencies demonstrate that a project would not directly obstruct implementation of an applicable air quality plan and that a project be consistent with the assumptions (typically land-use related, such as resultant employment or residential units) upon which the air quality plan is based. The proposed Project would result in an increase in short-term employment compared to existing conditions. Being relatively small in number and temporary in nature, construction jobs under the Project would not conflict with the long-term employment projections upon which the AQMP is based. Control strategies in the AQMP with potential applicability to short-term emissions from construction activities include strategies denoted in the 2016 AQMP as MOB-08 and MOB-10, which are intended to reduce emissions from on-road and off-road heavy-duty vehicles and equipment by accelerating replacement of older, emissions-prone engines with newer engines meeting more stringent emission standards. The Project would not conflict with implementation of these strategies. Additionally, the Project would comply with the California Air Resources Board (CARB) requirements to minimize short-term emissions from on-road and off-road diesel equipment. The Project would also comply with SCAQMD regulations for controlling fugitive dust pursuant to SCAQMD Rule 403 and implement SC-AQ-2 through SC-AQ-4. SC-AQ-2 would obligate construction contractors to have off-road equipment properly tuned and maintained in accordance with the manufacturer's specifications. SC-AQ-3 would implement methods for reducing onsite dust emissions during soil removal. These methods would include: maintain slow speeds for vehicles, applying water/mist to dirt as it is loaded and unloaded, minimize soil drop heights, covering haul truck loads, and using polyethylene sheeting during to cover excavated areas and dirt stockpiles. SC-AQ-4 is intended to reduce construction exhaust and fugitive dust emissions with a number of features including but not limited to: restricting diesel engine idling times to no more than five consecutive minutes, utilizing ultra-low sulfur diesel fuel, utilizing off-road construction equipment that is compliant with Tier 4 engine standards, applying soil stabilizers, replacing ground cover as soon as possible, and installing wheel washers.

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91 South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp. Accessed April 2018.

92 South Coast Air Quality Management District, NAAQS/CAAQS and Attainment Status for South Coast Air Basin, (2016), http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2. Accessed April 2018.

Compliance with these requirements is consistent with and meets or exceeds the AQMP requirements for control strategies intended to reduce emissions from construction equipment and activities. Because the Project would not conflict with the control strategies intended to reduce emissions from construction equipment, the Project would not conflict with or obstruct implementation of the AQMP. Additionally, the projected emissions from the project would not exceed the SCAQMD's regional significance thresholds, as discussed below. Thus, the Project would not be considered by SCAQMD to be a substantial source of air pollutant emissions, and would not conflict or obstruct implementation of the AQMP. Therefore, impacts would be less than significant. No mitigation or further study required.

Operations

The 2016 AQMP was prepared to accommodate growth, reduce the levels of pollutants within the areas under the jurisdiction of SCAQMD, return clean air to the region, and minimize the impact on the economy. Projects that are considered consistent with the AQMP would not interfere with attainment because this growth is included in the projections used in the formulation of the AQMP.

The proposed Project is a comprehensive modernization of the existing Jefferson HS. The student and faculty population at the school would not increase as a result of the Project. The land use would stay the same and thus be consistent with the AQMP. Additionally, the proposed Project would not significantly increase vehicle trips to the Project Site. As a result, the proposed Project would not result in long-term operational population or employment growth that exceeds planned growth projections in the SCAG Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS)[93] or the AQMP[94] or result in employment growth that would substantially add to traffic congestion. As the proposed Project would not conflict with the growth projections in the AQMP, impacts would be less than significant. No mitigation or further study required.

b) Violate any air quality standard or contribute substantially to an existing or Projected air quality violation?

As indicated above, the Project Site is located within the South Coast Air Basin, which is characterized by relatively poor air quality. State and federal air quality standards are often exceeded in many parts of the Basin, including those monitoring stations nearest to the Project's location. The Project would contribute to local and regional air pollutant emissions during construction (short-term or temporary) and Project occupancy (long-term). However, based on the following analysis, construction and operation of the Project would result in less than significant impacts relative to the daily significance thresholds for criteria air pollutant emissions established by the SCAQMD for construction and operational phases.

[93] Southern California Association of Governments, Final 2016-2040 RTP/SCS, http://scagrtpscs.net/Pages/FINAL2016RTPSCS.aspx. Accessed April 2018.

[94] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp. Accessed April 2018.

Construction

Less Than Significant Impact. For the purpose of this analysis, it was estimated that construction of the proposed Project would start in 2019 and finish in 2025. Preliminary design and scheduling information from LAUSD was used in conjunction with CalEEMod to estimate the number of days needed to execute Comprehensive Modernization Phases 1-5, as described in the Project description section of this IS/MND.

Construction of the proposed Project has the potential to generate temporary criteria pollutant emissions through the use of heavy-duty construction equipment, such as excavators and forklifts, and through vehicle trips generated from worker trips and haul trucks traveling to and from the Project Site. In addition, fugitive dust emissions would result from demolition and various soil-handling activities. Mobile source emissions, primarily NO_X, would result from the use of construction equipment such as dozers and loaders. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of construction activity, and prevailing weather conditions. The assessment of construction air quality impacts considers each of these potential sources.

Daily regional emissions during construction are forecasted by assuming a conservative estimate of construction activities (i.e., assuming all construction occurs at the earliest feasible date) and applying the mobile source and fugitive dust emissions factors. The emissions are estimated using the CalEEMod (Version 2016.3.2) software, an emissions inventory software program recommended by the SCAQMD. CalEEMod is based on outputs from OFFROAD and EMFAC, which are emissions estimation models developed by CARB and used to calculate emissions from construction activities, including on-and off-road vehicles. The input values used in the CalEEMod modeling analysis were adjusted based on construction equipment and schedule information from similar land use development projects in the LAUSD. These values were then applied to the construction phasing assumptions used in the criteria pollutant analysis to generate criteria pollutant emissions values for each construction activity. Detailed construction equipment lists, construction scheduling, and emissions calculations are provided in Appendix A.

The worst-case daily emissions were calculated as maximum daily construction emissions for each phase by year. The maximum daily emissions are predicted values for the worst-case day and do not represent the emissions that would occur for every day of construction. Detailed emissions calculations are provided in Appendix A. Results of the criteria pollutant calculations are presented in *Table 4.3-2*, *Maximum Daily Unmitigated Regional Construction Emissions*. As shown therein, construction-related daily emissions for the criteria and precursor pollutants (VOC, NO_X, CO, SO_X, PM10, and PM2.5) would be below the SCAQMD numeric indicators. These calculations include appropriate dust control measures required to be implemented during each phase of development, as required by SCAQMD Rule 403 (Control of Fugitive Dust) *and* SC-AQ-2 through SC-AQ-4. As discussed previously, SC-AQ-2 would obligate construction contractors to have off-road equipment properly tuned and maintained in accordance with the manufacturer's specifications. SC-AQ-3 would implement methods for reducing onsite dust emissions during soil removal. SC-AQ-4 is intended to reduce construction exhaust and fugitive dust emissions with a number of features including utilizing off-road construction equipment that is compliant with Tier 4 engine standards and applying soil stabilizers. Therefore, with respect to regional emissions from construction activities, impacts would be less than significant. No mitigation or further study is required.

TABLE 4.3-2
MAXIMUM DAILY UNMITIGATED REGIONAL CONSTRUCTION EMISSIONS (POUNDS PER DAY)

Phase	Source	VOC	NO_x	CO	SO_2	PM10 [b]	PM2.5 [b]
Phase 1	Soil Removal	2	47	24	<1	5	2
	Demolition	1	2	23	<1	2	1
	Grading	1	1	14	<1	4	1
	Building Construction	1	5	16	<1	2	1
Phase 2	Demolition	1	2	22	<1	2	1
	Grading	1	1	14	<1	3	1
	Building Construction	1	5	15	<1	2	1
Phase 3	Demolition	1	5	22	<1	2	1
	Grading	1	1	12	<1	3	1
	Building Construction	1	4	14	<1	2	1
	Paving	1	1	9	<1	2	<1
	Architectural Coating	33	1	7	<1	2	<1
Phase 4	Demolition	1	2	20	<1	2	1
	Grading	1	1	12	<1	3	1
	Building Construction	1	3	13	<1	2	1
	Paving	1	1	9	<1	2	<1
	Architectural Coating	33	<1	6	<1	2	<1
Phase 5	Demolition	1	3	20	<1	2	1
	Grading	1	1	13	<1	4	1
	Building Construction	1	2	6	<1	2	1
	Paving	1	1	8	<1	2	<1
Overlapping Phases							
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Grading		3	11	50	<1	8	3
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Building Construction		3	13	52	<1	6	2
Phase 2 Building Construction+Phase 3 Building Construction		2	9	30	<1	4	1
Phase 3 Paving+Phase 3 Architectural Coating+Phase 4 Demolition		2	3	30	<1	4	1
Maximum Daily Emissions		33	47	52	<1	8	3
SCAQMD Significance Thresholds		75	100	550	150	150	55
Exceeds Threshold?		**No**	**No**	**No**	**No**	**No**	**No**

NOTE: Detailed emissions calculations are provided in Appendix A.

With respect to all SUP projects, including the proposed Project, the Program EIR states that construction activities may generate short-term emissions that exceed significance thresholds. Though construction emissions for this Project are not expected to exceed regional thresholds, the District would implement SCs AQ-2, SC-AQ-3, and AQ-4 to ensure that construction emissions would have minimal impacts. Also, criteria pollutant emissions would occur outside of SCAQMD's jurisdiction during transportation of contaminated soil to Buttonwillow, California. The Project would be substantially below the San Joaquin Valley Air Pollution District's Thresholds of Significance for all criteria pollutants. No mitigation or further study is required.

Operations

Less Than Significant Impact. With respect to SUP modernization projects, the Program EIR states that operational activities would be less than significant, as these projects would not increase capacity to existing schools and net project emissions would be minimal. Additionally, overall District enrollment is forecast to decrease over the next 10 years and operational emissions are not expected to increase in the long-term.[95]

The proposed Project would replace or upgrade facilities on the campus of Thomas Jefferson High School, but it would not increase the number of students or faculty at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating and other onsite sources. Therefore, there would be no net increase in regional emissions of any criteria pollutant, and the impact would be less than significant. Additionally, the District is required to comply with all applicable SCs, and would implement SC-AQ-5 to further reduce Project-related operational impacts. No mitigation or further study is required.

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is in non-attainment under an applicable federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Short-term pollutants would be generated by construction of the proposed Project. The Project Site currently operates as a high school and would continue do so after construction. The proposed Project would not introduce any new long-term pollutants when operational. Therefore, only short-term construction emissions were evaluated for cumulative impacts.

Construction

Less Than Significant Impact. The proposed Project would result in the emission of criteria pollutants for which the area is in non-attainment during construction. A significant impact may occur if a project would add a cumulatively considerable contribution of a federal or State non-attainment pollutant. The Air Basin is currently in non-attainment for O_3, PM10, and PM2.5. As stated in the Program EIR, SUP-related

[95] Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015.

construction activities may generate short-term emissions that exceed significance thresholds and cumulatively contribute to the Air Basin's non-attainment designations.

Emissions from proposed Project construction are not predicted to exceed the SCAQMD regional or localized impact thresholds and therefore, are not expected to cause or substantially contribute to ground level concentrations that exceed the NAAQS or CAAQS. Furthermore, the District would implement SC-AQ-2, SC-AQ-3, and SC-AQ-4 to ensure that construction emissions would have minimal offsite impacts.[96, 97] Therefore, the Project would not result in a cumulatively considerable net increase for non-attainment pollutants or O_3 precursors and would result in a less than significant impact for construction emissions. No mitigation or further study is required.

Operations

The Program EIR states that operational activities would be less than significant for all SUP modernization projects, including the proposed Project, and are not expected to cumulatively contribute to non-attainment designations in the Air Basin.[98] As discussed above, there would be no net increase in regional operational emissions of any criteria pollutant. Additionally, the District would implement SC-AQ-5 to further reduce Project-related operational impacts. Therefore, the emissions of non-attainment pollutants and precursors generated by Project implementation would be less than significant. No mitigation or further study is required.

d) Expose sensitive receptors to substantial pollutant concentrations?

The proposed Project could expose sensitive receptors (i.e., sensitive populations or land uses) to elevated pollutant concentrations during construction. Sensitive receptors include children, the elderly, persons with pre-existing respiratory or cardiovascular illness, or already weakened by other disease or illness, and persons engaged in strenuous work or exercise. As defined in the SCAQMD CEQA Air Quality Handbook, a sensitive receptor to air quality is defined as any of the following land use categories: 1) long-term health care facilities, 2) rehabilitation centers, 3) convalescent centers, 4) retirement homes, 5) residences, 6) schools, 7) parks and playgrounds, 8) child care centers, and 9) athletic fields. The nearest sensitive receptors to the Project Site are existing students at Jefferson HS and residences surrounding the campus.

Construction-Criteria Pollutants

Less Than Significant Impact. The localized effects from the onsite portion of daily emissions were evaluated at sensitive receptor locations potentially impacted by the Project according to the SCAQMD's localized significance threshold (LST) methodology. Demolition, grading, and construction activities requiring heavy equipment and earthwork for each individual phase, would be performed on a portion of the 18.9-acre site. The construction phases have been designated so active construction areas are less than five acres. As such, the LST mass rate look-up methodology can be used to determine whether onsite emissions of NOx,

[96] Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015. Pgs 5.3-28 to 5.3-30.

[97] Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015. Pgs. 5.3-27 to 5.3-28.

[98] Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015. Pgs. 5.3-29

4. Environmental Checklist and Analysis

CO, PM10, and PM2.5 would cause violations of ambient air quality standards. As a conservative estimate, it was assumed that construction activities would be occurring on an area of one acre on a daily basis with sensitive receptors within 25 meters. As such, the LST mass rate look up methodology can be used to determine whether the emissions would cause violations of ambient air quality standards for the nearby SCAQMD Central Los Angeles monitoring station.

The maximum daily localized emissions for each of the construction phases and localized significance thresholds are presented in *Table 4.3-3*, *Maximum Unmitigated Localized Construction Emissions*. As shown therein, maximum localized construction emissions for sensitive receptors would not exceed the localized thresholds for NO_X, CO, PM10, and PM2.5. Therefore, with respect to localized construction emissions, impacts would be less than significant. No mitigation or further study is required.

TABLE 4.3-3
MAXIMUM UNMITIGATED LOCALIZED CONSTRUCTION EMISSIONS (POUNDS PER DAY) [A]

Source		NO_X	CO	PM10 [b]	PM2.5 [b]
Phase 1	Soil Removal	1	10	<1	<1
	Demolition	1	15	<1	<1
	Grading	1	7	2	1
	Building Construction	1	8	<1	<1
Phase 2	Demolition	1	15	<1	<1
	Grading	1	7	2	1
	Building Construction	1	8	<1	<1
Phase 3	Demolition	1	15	<1	<1
	Grading	1	7	2	1
	Building Construction	1	8	<1	<1
	Paving	<1	4	<1	<1
	Architectural Coating	<1	2	<1	<1
Phase 4	Demolition	1	15	<1	<1
	Grading	1	7	2	1
	Building Construction	1	8	<1	<1
	Paving	<1	4	<1	<1
	Architectural Coating	<1	2	<1	<1
Phase 5	Demolition	1	15	<1	<1
	Grading	1	9	2	1
	Building Construction	<1	2	<1	<1
	Paving	<1	4	<1	<1

Source	NO_X	CO	PM10 [b]	PM2.5 [b]
Overlapping Phases				
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Grading	3	30	2	1
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Building Construction	4	32	<1	<1
Phase 2 Building Construction+Phase 3 Building Construction	3	16	<1	<1
Phase 3 Paving+Phase 3 Architectural Coating+Phase	2	20	<1	<1
Maximum Daily Emissions	**4**	**32**	**2**	**1**
Localized Significance Thresholds[C]	74	680	5	3
Exceeds Threshold?	No	No	No	No

[a] Totals may not add up exactly due to rounding in the modeling calculations Detailed emissions calculations are provided in Appendix A.
[b] Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.
[c] The SCAQMD LSTs are based on Source Receptor Area 1 (Central Los Angeles) for a 1-acre site within a 25-meter receptor distance.

With respect to all SUP projects, the Program EIR states that construction activities may generate short-term emissions that exceed LSTs. Though construction emissions for this Project are not expected to exceed thresholds, the District would implement SC-AQ-2 to ensure that sensitive receptors would have minimal exposure to construction emissions. Additionally, emissions from Project-related construction activities would fall below both localized and regional SCAQMD significance thresholds and would not violate an air quality standard or contribute to an existing or projected air quality violation. Therefore, localized air quality impacts from Project-related construction would be less than significant. No mitigation or further study is required.

Construction -Toxic Air Contaminants

Concentrations of toxic air contaminants (TACs), or in federal parlance, hazardous air pollutants (HAPs), are also used as indicators of ambient air quality conditions. A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations.

Less Than Significant Impact. Project-related construction has the potential to expose sensitive receptors to substantial pollutant concentrations of TACs. TACs are pollutants for which neither California nor the federal government have set ambient air quality thresholds but which still pose health risks to sensitive individuals. The primary TAC of concern from construction is diesel particulate matter (DPM) as well as potential intake of arsenic and lead from removal of contaminated soil from the Project Site. Inhalation of DPM has been linked to increased cancer risk and chronic health hazards. Three classes of sensitive receptors were evaluated for this Project: offsite residents, onsite staff, and onsite students.

Contaminated Soil Removal

The proposed Project would require approximately one week to remove about 230 cubic yards of contaminated soil. During soil removal activities, dust emissions containing lead and arsenic could be inhaled, ingested, and/or absorbed. Dispersion modeling used area sources located in areas where soil excavation, handling and storage would take place. Receptors were placed at residential receptors in the immediate vicinity of the Project Site in addition to an onsite receptor to represent student and teacher exposures. This source receptor configuration was used to be representative of the worst-case scenario in terms of pollutant exposure.

Cancer and chronic health impacts are based on exposure to pollutants on an annual basis, while acute health impacts are based on a maximum hourly exposure. DPM and lead do not have acute RELs, only arsenic has an acute REL, therefore acute impacts for arsenic would be evaluated.

In order to account for sensitivity of younger age groups, risks were calculated for children and adults. In accordance with OEHHA guidance, child risk assumes exposure starting at 3rd trimester of pregnancy, while adult risk assumes exposure starting at 16 years of age. The minimum exposure duration the HARP model allows is a half year. Since actual exposure duration is one week, the HARP results would overestimate actual exposure. Impacts for residents offsite and students onsite were evaluated. *Table 4.3-4, Lead and Arsenic Health Impact Summary,* shows the results of the HARP2 model for impacts of lead and arsenic emissions. Lead does not have chronic or acute impacts; therefore, chronic and acute impacts are only presented for arsenic.

TABLE 4.3-4
LEAD AND ARSENIC HEALTH IMPACT SUMMARY

	Cancer Risk per Million			**Chronic Hazard Index**	**Acute Hazard Index**
Receptor Type	**Lead**	**Arsenic**	**Total**	**Arsenic**	**Arsenic**
Offsite Resident	2.2×10^{-7}	3.9×10^{-6}	4.1×10^{-6}	1.9×10^{-6}	5.7×10^{-8}
Students	5.0×10^{-6}	8.9×10^{-5}	9.4×10^{-5}	4.3×10^{-5}	7.1×10^{-7}
Staff	1.2×10^{-6}	2.0×10^{-5}	2.1×10^{-5}	1.4×10^{-5}	7.1×10^{-7}
SCAQMD Threshold	–	–	*10*	*1.0*	*1.0*
Exceed SCAQMD Threshold?	–	–	**No**	**No**	**No**

SOURCE: ESA 2018

Blood Lead

Although health risk estimates calculated above analyze exposure to heavy metals, lead exposure was further analyzed to determine potential impacts on child and fetal (pregnant adult) development. Potential blood lead concentrations in children and pregnant adults were estimated using the DTSC LeadSpread 8 model. Maximum concentrations of airborne lead were calculated using AERMOD dispersion modeling. Results of this model show that the incremental increase in child and pregnant adult blood lead concentrations would be

0.75 μg/dL for children and 0.13 μg/dL for adults, below the threshold of 1.0 μg/dL, and therefore, less than significant.

Construction Diesel Emissions

To evaluate health risks, off-road (onsite) construction equipment DPM emissions were estimated using the CalEEMod model. In accordance with SC-AQ-4, the Project would use construction equipment rated by the United States Environmental Protection Agency as having Tier 4 emission limits for engines between 50 and 750 horsepower. DPM emissions were analyzed for construction equipment having Tier 4 engines. On-road (offsite) equipment emissions within a quarter-mile of the site were included in this assessment. The next step involved estimating Project-related DPM concentrations at sensitive receptor locations. The AERMOD dispersion modeling was used to estimate DPM concentrations using several inputs: DPM emission rates per unit of time, five years of hourly meteorological data, and sensitive receptor locations. The DPM concentrations produced by AERMOD were converted to cancer risks and chronic health hazards using guidance issued by the California Office of Environmental Health Hazards and Assessment.[99] The SCAQMD has established a maximum incremental cancer risk of 10 in a million (1.0E-05) for CEQA projects and the OEHHA also sets a typical risk management level as 10 in a million.

The Project's health risk calculations were performed using a spreadsheet tool consistent with the OEHHA guidance, which incorporates the algorithms, variables, and equations of the guidance, and incorporates the AERMOD dispersion model.

For carcinogenic exposures, the cancer risk from DPM emissions from construction of the Project is estimated to result in a maximum carcinogenic risk of approximately 5.4 per million.[100] The maximum impact would occur at the residential property south west of the Project Site. Cancer risk to students and staff onsite would be 0.39 per million and 0.07 per million, respectively. As discussed previously, the lifetime exposure under OEHHA guidelines takes into account early life (infant and children) exposure. The calculated cancer risk assumes sensitive receptors (residential and school uses) would not have any mitigation, such as mechanical filtration and exposure would occur with windows open.

Table 4.3-5, *Project Maximum Health Impact Summary,* summarizes the maximum impacted sensitive receptors. Values in the table incorporate the results of health impacts from DPM, as well as the impacts from lead and arsenic found in Table 4.3-4.

99 Office of Environmental Health Hazard Assessment, 2015 Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf

100 The residential cancer risk is higher compared to staff and students due to conservative parameters used for early development stages of childhood (3rd trimester of pregnancy and 0-2 years old). These parameters include higher daily breathing rates, a fraction of time at home of 1.0 (meaning children would be at home 100 percent of the time, thus exposed to 100 percent of emissions), and an age sensitivity factor of 10. The residential scenario assumed a pregnant and nursing mother located approximately 50 feet from the Project Site for the duration of construction.

TABLE 4.3-5
PROJECT MAXIMUM HEALTH IMPACT SUMMARY

Receptor Type	Maximum Incremental Cancer Risk per Million	Chronic Hazard Index	Acute Hazard Index
Offsite Resident	5.4	5.5×10^{-5}	5.7×10^{-8}
Students	0.38	7.0×10^{-5}	7.1×10^{-7}
Staff	0.07	4.0×10^{-5}	7.1×10^{-7}
SCAQMD Threshold	*10*	*1.0*	*1.0*
Exceeds SCAQMD Threshold?	**No**	**No**	**No**

Notes Offsite residents assumed to be exposed for the entire 5.5 years of Project construction. Onsite school staff assumed to be exposed to the entire 5.5 years of Project construction. Students assumed to be exposed for a maximum of 4 years.

SOURCE: ESA 2018

The process of assessing health risks and impacts includes a degree of uncertainty, which is dependent on the availability of data and the extent to which assumptions are relied upon in cases where the data are incomplete or unknown. All health risk assessments (HRA) rely upon scientific studies to reduce the level of uncertainty; however, it is not possible to completely eliminate uncertainty from the analysis. Where assumptions are used to substitute for incomplete or unknown data, it is standard practice in performing HRAs to err on the side of health protection to avoid underestimating or underreporting the risk to the public by assessing risk on the most sensitive populations, such as children and the elderly. As shown in Table 4.3-5, cancer risk for nearby sensitive receptors would remain below significance thresholds. These short-term emissions would not substantially contribute to a significant construction health risk. No residual emissions and corresponding individual cancer risk are anticipated after Project construction. Therefore, the proposed Project would result in a less than significant impact related to construction TAC emissions. No mitigation or further study is required.

Operational-Criteria Pollutants

The proposed Project would replace or upgrade facilities on the campus of Jefferson HS, but it would not increase the number of students or faculty at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating and other onsite sources. Therefore, there would be no net increase in local operational emissions of any criteria pollutant, and the impact to sensitive receptors would be less than significant. No mitigation or further study is required.

Carbon Monoxide Hotspots

The Program EIR states the operation of SUP projects would not expose sensitive receptors to substantial pollutant concentrations because stationary sources at schools have nominal emissions related to the use of

natural gas heaters and boilers, landscaping equipment, and consumer products (cleaning products).[101] Because minimal to no new vehicle trips would be generated by the proposed Project, SUP-related CO hotspot impacts would be less than significant according to the Program EIR.[102] In addition, the District would implement SC-AQ-5, and long-term Project impacts would be less than significant. No mitigation or further study is required.

e) Create objectionable odors affecting a substantial number of people?

Less Than Significant Impact. According to the SCAQMD *CEQA Air Quality Handbook*, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The proposed Project does not include any uses identified by the SCAQMD as being associated with substantial odors.

Construction

Less Than Significant Impact. Potential activities that may emit odors during construction activities include the use of architectural coatings and solvents and the combustion of diesel fuel in on-and off-road equipment. SCAQMD Rule 1113 would limit the amount of VOCs in architectural coatings and solvents. In addition, the proposed Project would comply with the applicable provisions of the CARB Air Toxics Control Measure regarding idling limitations for diesel trucks. Through mandatory compliance with SCAQMD Rules, no construction activities or materials are expected to create objectionable odors affecting a substantial number of people. Therefore, construction of the Project would result in less than significant impacts. No mitigation or further study is required.

Operations

Less Than Significant Impact. According to the SCAQMD *CEQA Air Quality Handbook*, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The proposed Project does not include any uses identified by the SCAQMD as being associated with substantial odors. As a result, the Project is not expected to discharge contaminants into the air in quantities that would cause a nuisance, injury, or annoyance to the public or property pursuant to SCAQMD Rule 402. Therefore, the Project would not create adverse odors affecting a substantial number of people and impacts would be less than significant. No mitigation or further study is required.

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101 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015.

102 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015.

4.4 BIOLOGICAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES. Would the Project:				
a. Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in the City or regional plans, policies, regulations by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh vernal pool, coastal, etc.) Through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐
e. Conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance (e.g., oak trees or California walnut woodlands)?	☐	☐	☒	☐
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan?	☐	☐	☐	☒

Discussion

The analysis below is based in part on the Arborist Protected Tree Report[103] prepared for the proposed Project (Appendix B).

[103] Cy Carlberg, 2017. City of Los Angeles Protected Tree Report, Thomas Jefferson High School. Prepared for LPA, Inc. February 27, 2017.

The Program EIR includes SCs for minimizing Project impacts to biological resources. Applicable SCs related to potential biological resource impacts associated with the proposed Project are provided in *Table 4.4-1*.

TABLE 4.4-1
BIOLOGICAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-BIO-1	LAUSD qualified biologist shall identify sensitive species and their habitat within or near ~~proposed~~ the Project Site. LAUSD will conduct a literature search, which shall consider a one-mile radius beyond the Project construction site and shall be performed by a qualified biologist with knowledge of local biological conditions as well as the use and interpretation of the data sources identified below. Where appropriate, in the opinion of the biologist, the literature search shall be supplemented with a site visit and/or aerial photo analysis. Resources and information that shall be investigated for each site should include, but not be limited to: • United States Fish and Wildlife Service (USFWS) • National Marine Fisheries Services (NMFS) • California Department of Fish and Wildlife (CDFW) • California Native Plant Society (CNPS) • County and/or city planning or environmental offices for sensitive species, habitat, and/or heritage trees that may not exist on published databases. • CNDDB • CNPS Rare Plant Inventory • Local Audubon Society • Los Angeles County Department of Regional Planning for information on Significant Ecological Areas • California Digital Conservation Atlas for ~~d~~District-wide location of reserves, plan areas, and land trusts that may overlap with Project sites. Biological Resources Report If a report is necessary and the LAUSD qualified biologist determines that a school construction Project will affect an identified sensitive plant, animal, or habitat, a biological resources report shall be prepared. To provide a complete assessment of the flora and fauna within and adjacent to a site-specific Project impact area, with particular emphasis on identifying endangered, threatened, sensitive, and locally unique species and sensitive habitats, the biological resources report shall include the following. • Information on regional setting that is critical to the assessment of rare or unique resources • A thorough, recent floristic-based assessment of special status plans and natural communities, following the CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities. CDFW recommends that floristic, alliance- and/or association-based mapping and vegetation impact assessments be conducted at the Project Site and neighboring vicinity. The Manual of California Vegetation (Sawyer et al.) should also be used to inform this mapping and assessment. Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect6 impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions. • A current inventory of the biological resources associated with each habitat type onsite and within the area of potential effect. CDFW's California Natural Diversity Data Base (CNDDB) should be contacted to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code. • An inventory of rare, threatened, and endangered, and other sensitive species onsite and within the area of potential effect. Species to be addressed should include all those identified in CEQA Guidelines Section 15380, including sensitive fish, wildlife, reptile, and amphibian species. Seasonal variations in use of the Project area should also be addressed. Focused species-specific surveys, conducted at appropriate time of year and time of day when sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with the CDFW and USFWS.

	• A discussion of the potential adverse impacts from light, noise, human activity, exotic species, and drainage. Drainage analysis should address Project-related changes on drainage patterns on and downstream from the site; the volume, velocity, and frequency of existing and post- Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-Project fate of runoff from the Project Site. • Discussions about direct and indirect Project impacts on biological resources, including resources in nearby public lands, open space, adjacent natural habitats, wetland and riparian ecosystems, and any designated and/or proposed or existing reserve lands (e.g., preserve lands associated with a NCCP). Impacts on, and maintenance of, wildlife corridor/movement areas, including access to undisturbed habitats in adjacent areas. • Mitigation measures for adverse Project-related impacts to sensitive plants, animals, and habitats. Measures should emphasize avoidance and reduction of biological impacts. For unavoidable impacts, onsite habitat restoration or enhancement should be outlined. If onsite measures are not feasible or would not be biologically viable, offsite measures through habitat creation and/or acquisition and preservation in perpetuity should occur. This measure should address restrictions on access, proposed land dedications, monitoring and management programs, control of illegal dumping, water pollution, increased human intrusion, etc. • Plans for restoration and vegetation shall be prepared by qualified biologist with expertise in southern California ecosystems and native plant vegetation techniques. Plans shall include, at a minimum: - location of the mitigation site - plant species to be used, container sizes, and seeding rates - schematic depicting the mitigation area - planting schedule - irrigation method - measures to control exotic vegetation - specific success criteria - detailed monitoring program - contingency measures should the success criteria not be met - identification of the party responsible for meeting the success criteria and providing for conservation of the site in perpetuity. LAUSD shall consult with the U.S. Army Corps of Engineers, USFWS and/or the CDFW and comply with any permit conditions or directives from those agencies regarding the protection, relocation, creation, and/or compensation of sensitive species and/or habitats.
SC-BIO-2	LAUSD shall protect sensitive species from harmful exposure to light by shielding light sources, redirecting light sources, or using low intensity lighting.
SC-BIO-3	LAUSD shall comply with the following: Project activities (including, but not limited to, staging and disturbances to native and nonnative vegetation, structures, and substrates[72]) should occur outside of avian breading season to avoid take of birds or their eggs[73]. Depending on the avian species present, a qualified LAUSD surveyor or qualified biologist may determine that a change in the breeding season dates is warranted. If avoidance of the avian breeding season is not feasible, beginning 30 days prior to the initiation of the Project activities, a qualified LAUSD surveyor or qualified biologist with experience in conducting breeding bird surveys shall conduct weekly bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (within 500 feet for raptors). The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of Project activities. If a protected native bird is found, LAUSD shall delay all Project activities within 300 feet of the suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified LAUSD surveyor or qualified biologist could continue the surveys in order to locate any nests. If an active nest is located, Project activities within 300 feet of the nest (within 500 feet for raptor nests), or as determined by a qualified biologist, shall be postponed until the

	nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing shall be used to demarcate the inside boundary of the 300- or 500-foot buffer between the Project activities and the nest. Project personnel, including all contractors working on site, shall be instructed on the sensitivity of the area. LAUSD shall provide results of the recommended protective measures to document compliance with applicable State and federal laws pertaining to the protection of native birds. If the qualified LAUSD surveyor or qualified biologist determines that a narrower buffer between the Project activities and observed active nests is warranted, a written explanation as to why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the Project activities and the nest and foraging areas) shall be submitted to LAUSD Office of Environmental Health and Safety (OEHS) Project manager. Construction contractors can then reduce the demarcated buffer. No construction shall occur within the fenced next zone until the young have fledged, are no longer being fed by the parents, have left the nest, and will no longer by impacted the construction. A qualified LAUSD surveyor or biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain outside the demarcated buffer and that the flagging, stakes, and/or construction fencing are maintained, and to minimize the likelihood that active nests are abandoned or fail due to Project activities. The biological monitor shall send weekly monitoring reports to LAUSD OEHS Project manager during the grubbing and clearing of vegetation, and shall notify LAUSD immediately if Project activities damage avian nests.
SC-BIO-4	LAUSD shall comply with the following conditions if a new school would be located in an area containing native habitat or if a protected tree would be removed from an existing campus: • Mitigation shall not include translocation of rare plants. CDFW, in most cases does not recommend translocation, salvage, and/or transplantation of rare, threatened, or endangered plant species, in particular oak trees, as compensation for adverse effects because successful implementation of translocation is rare. Even if translocation is initially successful, it will typically fail to persist over time. • **Permanent conservation of habitat.** To ensure the conservation of sensitive plant species, the preferred method is permanent conservation of habitat containing these species; any translocation proposed shall only be an experimental component of a larger, more robust plan. • **Offsite acquisition of woodland habitat.** Due to the inherent difficulty in creating functional woodland habitat with associated understory components, the preferred method is offsite acquisition of woodland habitat in the local area. All acquired habitat shall be protected under a conservation easement and deeded to a local land conservancy for management and protection. • **Creation of oak woodlands.** Any creation of functioning woodlands shall be of similar composition, structure, and function of the affected oak woodland. The new woodland shall mimic the function, demonstrate recruitment, plant density, and percent basil, canopy, and vegetation cover, as well as other measurable success criteria before the measure is deemed a success. - All seed and shrub sources used for tree and understory species in the new planting site shall be collected or grown from onsite sources or from adjacent areas and shall not be purchased from a supplier. This method should reduce the risk of introducing diseases and pathogens into areas where they might not currently exist. - Oaks should be replaced by planting acorns because this has been shown to result in greater oak survival. Monitoring efforts, including the exclusion of herbivores, shall be employed to maximize seedling survival during the monitoring period. - Monitoring period for oak woodland shall be at least 10 years with a minimum of seven years without supplemental irrigation. This allows the trees to go through one typical drought cycle. This should also be the minimal time needed to see signs of stress and disease and determine the need for replacement plantings.

	LAUSD shall request CDFW review and comment on any translocation plans, habitat preservation, habitat creation and/or restoration plans.
SC-BIO-5	LAUSD shall comply with CDFW recommendations as listed below:[74] • Project development or conversion that results in a reduction of wetland acreage or wetland habitat values shall not occur unless, at a minimum, replacement or preservation results in "no net loss" of either wetland habitat values or acreage. • All wetlands and watercourses, whether intermittent or perennial, should be retained and provided with substantial setbacks which preserve the riparian and aquatic values and maintain their value to onsite and offsite wildlife populations. • A jurisdictional delineation of creeks and their associated riparian habitats shall be conducted as part of the biological resources report. The delineation should be conducted pursuant to the USFWS wetland definition. Implementation of recommended measures shall compensate for affected mature riparian corridors and loss of function and value of wildlife corridors.

Description of Baseline Conditions

The Project Site is an active high school campus that has been previously disturbed, cleared of native vegetation, and currently contains school buildings, facilities, and scattered landscaped vegetation. An arborist survey was completed for the proposed Project.[104] The survey inventoried 139 trees and noted that up to two coast live oak trees (which are protected by the City of Los Angeles) and up to 77 non-protected trees of various species would be removed as a part of the proposed Project.[105] The District would incorporate the City's tree replacement policy, which requires any tree removal to be offset by the planting of landscaping trees at a minimum 4:1 ratio that are a 24" box or larger. The replacement trees (and plants as applicable) would be species that is included in the LAUSD Approved Plant List and appropriate sizes at maturity for the space planted. Three coast live oak trees that are located along the southernmost portion of the campus, as part of the historic lawn (specifically, at the intersections of Hooper Avenue and 41st Street and Compton Avenue and 41st Street), would not be removed.[106]

The trees (buildings and structures) on the campus have the potential to serve as nesting sites for birds and bats; however, the Project Site is located in a highly urbanized area of the City of Los Angeles (City). The campus has been fully developed and does not contain any habitat to support candidate, sensitive or special status species, riparian habitat or other natural habitats such as wetlands. Special-status plant and wildlife species are those that are candidates, proposed or listed as threatened or endangered by the US Fish & Wildlife Services (USFWS) or the California Department of Fish and Wildlife (CDFW), and plant species that are considered sensitive by the California Native Plant Society (CNPS). According to a CDFW California Natural Diversity Database (CNDDB) search of the Hollywood, California USGS 7.5-minute topographic quadrangle map, and surrounding 8 quads, there are 95 species in the vicinity of the Project Site that are considered special-status by local, State and federal agencies (Appendix B). However, the Project Site does not contain suitable habitat necessary to support special status wildlife species. To manage the preservation of these species, and the more than 180 species identified as threatened or endangered by the City of Los Angeles General Plan, Significant Ecological Areas (SEAs) have been identified throughout the City on the basis of existing known

[104] Cy Carlberg, 2017. City of Los Angeles Protected Tree Report, Thomas Jefferson High School. Prepared for LPA, Inc. February 27, 2017.
[105] Ibid.
[106] Ibid.

habitats of sensitive or endangered species. The Project Site is not located near or within an SEA and the nearest SEA is Puente Hills and is located approximately 11 miles east of the Project Site.[107]

Impact Analysis

Would the Project:

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

No Impact. The Project Site is located on an active high school campus that contains no native vegetation capable of supporting any special-status plant or wildlife species. The Project Site is entirely developed and surrounded by residential development to the north, south, east and west, as well as industrial/commercial development to the north, east, and south. The Project Site and immediate area are not within a SEA.[108] The Project Site does not contain any species that are identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or protected by the CDFW or USFWS (Appendix B).[109] The likelihood of species dispersal, whether plants or wildlife, from surrounding areas to the Project Site is extremely low. Therefore, the Project would have no impact on special-status species. No mitigation or further study is required.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

No Impact. The Project Site does not contain any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS. The Project Site is entirely developed and does not contain any natural drainages or water courses, which would potentially support riparian habitat, or natural undeveloped areas that may contain any other sensitive natural community. Therefore, there would be no impact. No mitigation or further study is required.

c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. Generally, the entire school campus is developed with buildings, parking lots, hardscape including walkways and hardcourts, and landscaped areas including playfields. The Project Site does not contain any federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to,

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107 Los Angeles County Department of Regional Planning, 2017. Planning and Zoning Information, GIS-Net 3. SEA Layer. Available at: http://gis.planning.lacounty.gov/GIS-NET3_Public/Viewer.html, accessed August 16, 2017.
108 Ibid.
109 CDFW, California Natural Diversity Database. 2017.

marsh, vernal pool, coastal etc.). Additionally, no wetlands protected by CDFW and/or the Regional Water Quality Control Board (RWQCB) occur on the Project Site. The Project Site is entirely developed and does not contain any waterways or undeveloped land capable of supporting federally protected wetlands. Therefore, no impact to wetlands would occur through direct removal, filling, hydrological interruption or other means. No mitigation or further study is required.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less Than Significant Impact. The Project Site does not contain any water courses or greenbelts for wildlife movement, or native vegetation and undeveloped land capable of supporting fish or the movement of wildlife, particularly corridors that facilitate movement of species between larger stands of native habitat. The nearest identified habitat linkage occurs in the Santa Monica Mountains, which are approximately 7.5 miles northwest, outside the potential impact area for the proposed Project. Therefore, the proposed Project would have no impact on the movement of any wildlife species or impede the use of migratory wildlife corridors.

Tree removal and building demolition may have the potential to disrupt birds that are nesting in the trees or buildings during breeding season (February 1 through August 31). Construction related noise and vibration also have the potential to disrupt birds during the avian breeding season. Additionally, the Project Site contains buildings that may be used by bats as nursery sites during the bat maternity roosting season of March through August. Therefore, construction activities (including demolition) have the potential to impact nesting birds or maternity roosting bats. However, the proposed Project would implement SC-BIO-3 as necessary. Following the completion of a pre-construction clearance survey, implementation of SC-BIO-3 would reduce impacts to less than significant. These measures include commencing tree removal and demolition activities outside of avian nesting season and bat maternity roosting season. The proposed Project would result in less than significant impacts and no mitigation or further study is required.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less Than Significant Impact. The Project Site is located within an entirely developed area surrounded by residential, commercial, and industrial development within the City and is not located within any SEA protecting biological resources. The Project Site does contain trees for landscape fronting East 41st Street and Compton Avenue that are considered significant character-defining features of the Project Site. Additionally, the Project Site contains trees that are considered protected under the City of Los Angeles Municipal Code Sections 46.00 et seq., including two coast live oak trees which would be removed as a part of the proposed Project. The District would adhere to the City's tree replacement policy, which requires any tree removal to be offset by the planting of landscaping trees at a minimum 4:1 ratio that are a 24-inch box or larger. Compliance with the City's tree replacement policy be consistent with the City of Los Angeles Municipal Code. Impacts related to conflicts with local policies or ordinances protecting biological resources would be less than significant. No mitigation or further study is required.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan?

No Impact. The Project Site is not located within a Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or similar plan.[110] The closest area protected by a HCP or NCCP is the City of Rancho Palos Verdes, located approximately 4.8 miles west of the Project Site. The Project Site is not located within or proximate to any SEA, Land Trust, or Conservation Plan. Therefore, no impact resulting from a conflict with an adopted conservation plan would occur. No mitigation or further study is required.

[110] CDFW, 2017. California Regional Conservation Plans. Available at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=68626&inline, accessed August 16, 2017.

4.5 CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES: Would the Project:				
a. Cause a substantial adverse change in significance of a historical resource as defined in State CEQA Section15064.5?	☐	~~☒~~ ☐	☒	☐
b. Cause a substantial adverse change in significance of an archaeological resource pursuant to State CEQA Section15064.5?	☐	☐	☒	☐
c. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐
d. Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☐	☒	☐

Discussion

This analysis incorporates information from the Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School; the LAUSD Historic Context Statement, 1870 to 1969; CEQA Historic Resources Technical Report (HRTR); and the Archaeological and Paleontological Resources Report prepared by ESA for the Thomas Jefferson High School Comprehensive Modernization Project, City of Los Angeles, California.[111,112,113] The CDFM, HRTR, and the Archaeological and Paleontological Resources Report are provided in Appendix C of this IS/MND.

The Program EIR included ~~Standard Conditions of Approval~~ SCs for minimizing impacts to cultural resources in areas where future projects would be implemented under the SUP. Applicable SCs related to cultural resource impacts associated with the proposed Project are provided in *Table 4.5-1*, below.

[111] LAUSD. July 28, 2015. Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California 90011. Los Angeles, CA.
[112] LAUSD, March 2014, Historic Context Statement, 1870 to 1969.
[113] Thomas Jefferson High School Comprehensive Modernization Project, City of Los Angeles, California: Archaeological and Paleontological Resources Report prepared by ESA April 2017 (Ortiz, Vanessa and Michael Vader, 2017).

TABLE 4.5-1
CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-CUL-1	Design Team to Include Qualified Historic Architect For campuses with qualifying historical resources under CEQA, the Design team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as Project plans progress, with the Secretary of the Interior's Standards and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2). For projects involving structural upgrades to historic resources, the Design team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated project-level experience in Historic Preservation. The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards.
SC-CUL-2	Role of Historic Architect on Design Team The tasks of the Historic Architect on the Design team shall include (but not necessarily be limited to) the following: 9. The Historic Architect shall work with the Design and LAUSD to ensure that Project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall work with the Design throughout the design process to develop Project options that facilitate compliance with the applicable historic preservation standards. 10. For new construction, the Historic Architect shall work with the Design and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus. 11. For modernization and upgrade projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design and LAUSD to ensure that specifications for design and implementation of projects comply with the applicable historic preservation standards. 12. The Historic Architect shall participate in design team meetings through all phases of the Project through 100 percent construction drawings, pre-construction, and construction phases (as needed). 13. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal Project components and treatment approaches comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The memos will be reviewed by LAUSD. ~~And incorporated into the Mitigation Monitoring and Reporting Plan (MMRP) for the project.~~ 14. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources. 15. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or on site storage. This shall include detailed instructions on maintaining and protecting in place relevant features. 16. The Design and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process.
SC-CUL-3	School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. LAUSD has adopted policies and guidelines that apply to projects involving historic resources. The Design team and Historic Architect shall apply these guidelines, which include the LAUSD School

4. Environmental Checklist and Analysis

Applicable SCs	Description
	Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and upgrade/modernization projects. In keeping with the district's adopted policies and goals, LAUSD shall re-use rather than destroy historical resources where feasible. LAUSD shall follow the guidelines outlined in these documents to the maximum extent practicable when planning and implementing projects and adjacent new construction involving historical resources. General guidelines shall include: • Retain and preserve the historic character of buildings, structures, landscapes, and site features that are historically significant. • Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match in materials and appearance. • Avoid removing, obscuring, or destroying character-defining features and materials. • Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity. • Conceal reinforcement required for structural stability or the installation of life safety or mechanical systems. • Undertake surface cleaning, preparation of surfaces, and other projects involving character-defining features using the least invasive, gentlest means possible. Avoid sandblasting and chemical treatments.
SC-CUL-4	Prior to demolition or mothballing activities, LAUSD shall retain a professional architectural photographer and a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to prepare HABS-like documentation for the historical resources slated for demolition. The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for demolition. Documentation prepared for the package will draw upon primary- and secondary-source research and available studies previously prepared for the Project. Measured drawings shall not be required for the Project. The specifications for the HABS-like package follow: Photographs: Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context photographs for the campus and adjacent setting. Photographs will be taken of interior and exterior features of the buildings using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be printed in black and white on archival film paper and also provided in electronic format. Descriptive and Historic Narrative: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate. Historic Documentation Package Submittal: The draft package will be assembled by the historian or architectural historian and submitted to LAUSD for review and comment. After final approval, one hard-copy set of the package will be prepared as follows: Photographs will be individually labeled and stored in individual acid-free sleeves. The remaining components of the historic documentation package (site map, photo index, historic narrative, and additional data) will be printed on archival bond, acid-free paper. Upon completion of the descriptive and historic narrative, all materials will be compiled in electronic format and presented to LAUSD for review and approval. Upon approval, one hard-copy version of the historic documentation package will be prepared and submitted to LAUSD. The historian or architectural historian shall offer a hardcopy package and compiled, electronic version of the final package to the Los Angeles Public Library (Central Library), Los Angeles Historical Society, and the South Central Coastal Information Center, to make available to researchers.

Applicable SCs	Description
SC-CUL-5	LAUSD, consistent with Education Code Section 17540, may ~~shall~~ offer to sell any useful features of the school building (e.g., the school bell, chalkboards, lockers) that do not contain hazardous materials for use or display, if features are not retained by LAUSD for reuse or display.
SC-CUL-6	LAUSD, consistent with Education Code Section 17545, may ~~shall~~ offer for sale any remaining functional and defining features and building materials from the buildings. These materials could include doors, windows, siding, stones, lighting, doorknobs, hinges, cabinets, and appliances, among others. They may ~~shall~~ be made available to the public for sale and reuse, if features are not retained by LAUSD for reuse or display.
SC-CUL-7	LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39).
SC-CUL-8	If historical or unique archaeological resources are discovered during construction activities, the contractor shall halt construction activities in the immediate area and notify the LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the building site while evaluation and treatment of historical or unique archaeological resources takes place.
SC-CUL-9	LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique archaeological resources have been identified on a site, but LAUSD does not implement a Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program.
SC-CUL-10	If evidence of prehistoric or historic cultural resources is uncovered, all work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed Project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton.
SC-CUL11	Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil disturbance. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources.
SC-CUL12	If archeological resources qualifying as unique archaeological resources are discovered and LAUSD determines not to avoid them by abandoning the site or redesigning the Project, LAUSD will determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by the Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation will be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor will be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors.
SC-CUL-13	If evidence of Native American resources is uncovered during construction, then all work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources.
SC-CUL14	LAUSD shall have a paleontological monitor on-call during construction activities. This monitor shall provide the construction crew(s) with a brief summary of the sensitivity, the rationale behind the need for protection of these resources, and information on the initial identification of paleontological resources. If

Applicable SCs	Description
	paleontological resources are uncovered during construction, the on-call paleontologist shall be notified and afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to ensure the protection of any other resources that may be in the area.
SC-CUL-15	The paleontological monitor shall be on site for all ground altering activities and shall advise LAUSD as to necessary means of protecting potentially significant paleontological resources, including, but not limited to, possible cessation of construction activities in the immediate area of a find. If resources are identified during the monitoring program, the paleontologist shall be afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to insure the protection of any other resources that may be in the area.

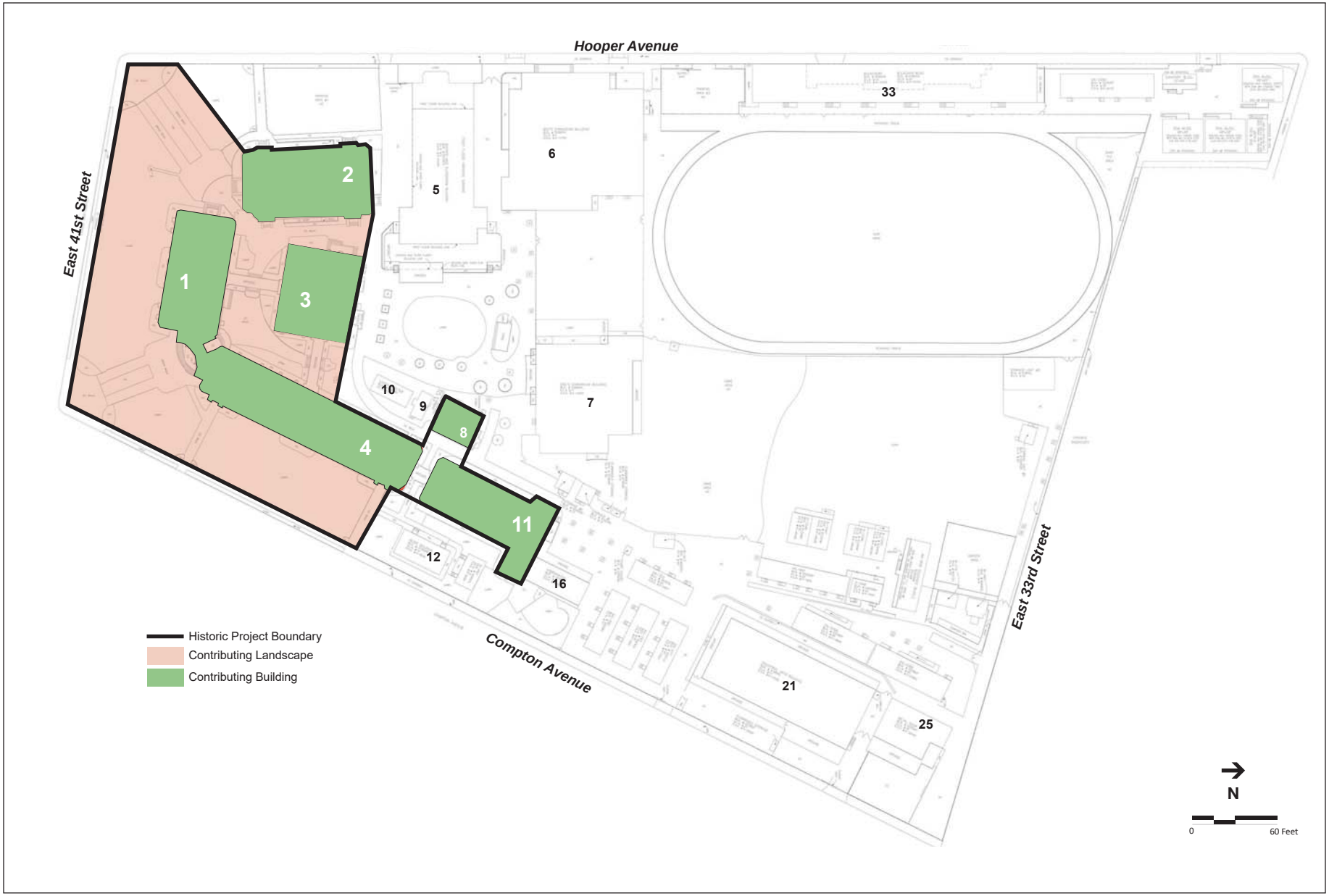
Background and Setting

Thomas Jefferson High School Campus History

Thomas Jefferson High School was originally constructed in 1917; however, the campus was essentially rebuilt following the 1933 Long Beach Earthquake. The new campus, built between 1935 and 1937, was designed in the Streamline Moderne style by architect Stiles O. Clements. Only the Power House (Building 8), constructed in 1917, remains from the school's original construction (*Figure 11, Contributing Buildings and Landscapes*). During the Phase I Getty Survey conducted on March 15, 2002, Jefferson High School was recommended eligible for the National Register and California Register through survey evaluation and assigned California Historic Register (CHR) Status Codes of 3S (appears eligible for the National Register as an individual property through survey evaluation) and 3CS (appears eligible for the California Register as an individual property through survey evaluation).[114] Jefferson High School was evaluated again in 2004, as a result of Section 106 review, and formally determined eligible as an individual property for the National Register through consensus with the SHPO, automatically listed in the California Register, and assigned a CHR Status Code of 2S2 (Individual property determined eligible for NR by a consensus through Section 106 process. Listed in the CR). Lastly, Jefferson High School was re-evaluated by SurveyLA in March 2012 during the Office of Historic Resources' historic resources survey of the Southeast Los Angeles Community Plan Area (CPA), recommended eligible for the national, State, and local level as an individual resource and was assigned CHR Status Codes of 3S, 3CS, and 5S3 (appears to be individually eligible for local listing or designation through survey evaluation).[115] *Table 4.5-2* includes the building name and number, the year it was constructed, and the historic status (contributing/non-contributing) of all permanent building/structures that are currently on the campus.

[114] Leslie J. Heumann, SAIC, DPR Primary Record Form for Thomas Jefferson High School (March 15, 2002).

[115] Galvin Preservation Associates, *Historic Resources Survey of Southeast Los Angeles: Historic Districts, and Multi-Property Resources*, Prepared for Office of Historic Resources, Department of City Planning (March 2012): 44-47, http://preservation.lacity.org/files/SELAAppendixCFinal3_12.pdf, accessed August 11, 2017.



SOURCE: Los Angeles Unified School Districts, 2002; ESA, 2018

Thomas Jefferson High School Comprehensive Modernization Project

Figure 11
Contributing Buildings and Landscapes

ESA

TABLE 4.5-2
THOMAS JEFFERSON HIGH SCHOOL CAMPUS BUILDINGS

Current Building Name (Historic Name, if different)	Year Constructed	Alterations/Repairs	Historic Status
Administrative Building (Administrative and Classroom Building 1)	1936	1981, 1986	Contributing
Auditorium (Building 2)	1936	N/A	Contributing
Cafeteria (Classroom Building 3)	1935	1990	Contributing
Main Classroom Building (Classroom Building 4)	1935	1986	Contributing
Science Building	N/A	N/A	Non-Contributing
Boy's Gymnasium (Competitive)	1955	1981 (fire damage)	Non-Contributing
Girl's Gymnasium (Practice)	1957	N/A	Non-Contributing
Utility Building (Power House – Building 8)	1917	N/A	Contributing
Mechanical Arts Building (Building 11)	1938	1990	Contributing
Music Building	1951	N/A	Non-Contributing
Homemaking Building (Home Economics)	1960	1977 (Fire Damage)	Non-Contributing
Industrial Arts Building	1959	N/A	Non-Contributing
Metal Shop	1964	N/A	Non-Contributing
Landscape	1936	Unknown	Contributing

The contributing buildings and landscape have a uniform appearance defined by the post-earthquake reconstruction and Streamline Moderne style. The period of significance (1935-1937) and contributing and non-contributing buildings, structures and features have been defined by the CDFM and the HRTR.[116,117] This information was verified for this IS/MND and is summarized below to facilitate the analysis.

Eligible Historic Resources

Jefferson HS was determined eligible for inclusion in both the National Register and is listed on the California Register of Historical Resources because it embodies the distinctive characteristics of the Streamline Moderne style of architecture; has retained integrity of setting, design, materials, workmanship, location, feeling, and association; and for the quality of its design by master architect Stiles O. Clements. There are six contributing

[116] LAUSD. July 28, 2015. Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California 90011. Los Angeles, CA.
[117] LAUSD. May 2018. Thomas Jefferson High School Modernization Project: CEQA Historic Resources Technical Report.

buildings and one contributing landscape, as identified in the table above, to the potential Jefferson High School Historic District. Figure 11 shows the location of each of the contributing buildings and landscape described below.

Administration and Classroom Building (Building 1). Originally constructed in 1936 in the Streamline Moderne style, Administration and Classroom Building (Building 1) underwent modernization and repairs from fire damage in the mid-1980s. The building retains a high degree of integrity, especially on the exterior, to its original construction. Exterior character-defining features include reinforced concrete construction; rectangular plan; two-story, horizontal box-like massing with rounded corners; symmetrical facades with strong sense of horizontality evoked through rows of windows and raised plaster bands; flat roof with coping; varied roof heights; textured (combed plaster) and smooth concrete exterior walls; four raised bands running along first and second floors of primary elevations over rows of windows; rows of windows consisting of four-over-four and multi-light awning metal-framed windows (alteration, covered with metal security screens); flat pilasters separating window channels; streamline canopies above entrances; pipe railings along exterior staircases, building set back behind a front lawn; and crescent shaped primary entrance bay connects Buildings 1 and 4 at the corner of East 41st Street and Compton Avenue. Interior character-defining features include the circulation plan, terrazzo floors, curved concrete stairwells with pipe railings, and curved interior walls. Interior features of the second floor library include four oil canvas paintings signed by artist Ross Dickinson and dated 1937, Streamline Moderne style curved walls accentuated by horizontal bands, engaged columns separating canvas paintings, reeded crown molding, and wood panel doors. Alterations include the replacement of the majority of the exterior doors and alterations to the rear (north) elevation including service windows, rectangular canopy, and concrete stairs. Overall, the building retains a high degree of physical integrity.

Auditorium (Assembly Hall; Building 2). The Auditorium was originally constructed in 1936 in the Streamline Moderne style. Character-defining features include reinforced concrete construction, rectangular plans and box-like two-story massing with rounded corners set back from Hooper Avenue, flat roof with coping, textured (combed plaster) and smooth concrete exterior walls, primary entrance on south elevation recessed within a Streamline style concrete surround and canopy crowned by "Auditorium" signage, concrete stairs lead to two-sets of double doors (alteration - doors replaced), two side entrances on both the west and east elevations accentuated by pilasters soaring above the roofline that flank single-doors and the primary entrance is covered by Streamline style canopy supported by engaged columns, and multi-light metal-framed awning windows. Exterior alterations include the replacement of the majority of the exterior doors and infill of some window openings. Interior character-defining features of the lobby include the circulation plan and sequence of spaces (lobby, auditorium, and stairwells), terrazzo flooring, recessed circular lighting covers, rounded walls, curved concrete stairwell and pipe railings. Alterations to the interior include the addition of signage on north wall of the lobby and the tiled-water fountain bays. Overall, the building retains a high degree of physical integrity.

Cafeteria Building (Building 3). The Cafeteria was originally constructed in 1935 in the Streamline Moderne style. Character-defining features include reinforced concrete construction; rectangular plan and one-story box-like massing; symmetrical facades with strong sense of horizontality evoked through rows of windows and raised plaster bands; flat roof with coping; four-over-four and multi-light awning metal-framed windows; flat pilasters separating window channels; two Streamline Moderne style reinforced concrete covered passageways spanning the interior courtyard at the south and east elevations connecting Buildings 1 and 4; grand entrance on west elevation underneath prominent Streamline canopy supported by heavy, round columns; and concrete stairs and low wall. Alterations include re-stucco and re-painting of the exterior, windows covered with metal security screens, addition of roll-up metal windows and concrete ramps with metal handrails, the majority of exterior doors replaced, and various mechanical equipment has been attached to the north elevation. Overall, the building retains a high degree of physical integrity.

Classroom Building (Building 4). The Classroom Building was originally constructed in 1935 in the Streamline Moderne style. Character-defining features include the set back behind the front lawn, reinforced concrete construction, rectangular plan and horizontal box-like two-story massing with rounded corners, symmetrical facades with strong sense of horizontality evoked through rows of windows and raised plaster bands, flat roof with coping, textured (combed plaster) and smooth concrete exterior walls, four raised bands running along first and second floors of primary elevations over rows of windows, four-over-four and multi-light awning metal-framed windows, flat pilasters separating window channels, streamline canopies above entrances, two side entrances on east elevation accentuated by pilasters soaring above the roofline that flank double-doors and a column of windows, streamline style canopy above the entrance, secondary entrance on north elevation accentuated by Streamline style pilasters that extend above roofline with a canopy connecting Mechanical Building and Classroom Building and Streamline style reinforced concrete covered passageway connecting the Mechanical Building and the Classroom Building at the north elevation. Alterations include metal security screens over windows, door and window openings filled in on east elevation, and the addition of a concrete ramp on the north elevation. Overall, the building retains a high degree of physical integrity.

Power House (Utility Building; Building 8). The Power House was originally constructed in 1917. Character-defining features include reinforced brick construction, square plan and massing, Renaissance Revival style wood cornice with dentils at roofline below parapet, wood belt course, and three and four-light metal-framed transom windows. Alterations include replacement doors, door and window openings infilled, structurally retrofit and braced with concrete on exterior, and parapet extended above roofline. Because of the high degree of alterations, the Power House was found to have low integrity.

Mechanical Arts Building (Building 11). Character-defining features include the irregular L-shape plan, rectangular one-story massing with rounded corners, textured (combed plaster) and smooth concrete exteriors, main entrance made prominent by two pilasters rising above roofline and covered by a canopy connected to Classroom Building, vents below roofline, and multi-light metal-framed windows. The utilitarian Home Economics Building is attached to the north elevation and is a non-contributing addition/building; the original mechanical arts buildings dating from 1910 and 1922 were removed. Other alterations include the infilling of numerous window bays, windows covered by metal security screens, and exterior doors replaced. Due to a number of alterations, Classroom Building (Building 4) was found to lack integrity.

Landscape. The contributing landscape is located at the southern end of campus around Buildings 1, 2, 3, and 4. Character-defining features of the contributing landscape include the trapezoid-shaped irregular lot; the U-shaped site plan of the Administration and Classroom Building, Auditorium, Classroom Building, and Mechanical Arts Building with the buildings fronting the west, south, and east sides of the parcel and Cafeteria Building sited at the center of the U-shaped site plan; the paved interior courtyard and two tiled drinking fountains between the Administration and Classroom Building, Auditorium, Cafeteria Building, and Classroom Building; a Streamline style reinforced concrete covered passageway connecting the Administration and Classroom Building and Cafeteria Building; a Streamline style reinforced concrete covered passageway connecting the Cafeteria Building and Classroom Buildings; landscape in-front of the Administration and Classroom Building and the Classroom Building fronting East 41st Street and Compton Avenue (expanses of green grass, mature trees and plantings); hardscape and walkways consisting of brick and concrete at corner of Compton Avenue and East 41st Street leading to primary school entrance; the rectangular planting bed near the southern end; hardscape, steps, and walkways constructed of brick and concrete at corner of Hooper Avenue and East 41st Street leading to primary entrance Auditorium Building 2 and side entrance of the Administration and Classroom Building; the rectangular planting bed near the southern end; and two walkways extending from secondary entrances of Building 4 to Compton Avenue. These landscape elements retain a high degree of integrity.

Jefferson HS was determined eligible for listing on the National Register and is listed in the California Register; therefore, the contributing elements are considered historical resources under CEQA. The other buildings on campus are considered non-contributing as listed in Table 4.5-2, and are not considered historical resources under CEQA.

Impact Analysis

Would the Project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?

Less Than Significant Impact. Jefferson HS was determined eligible for inclusion in the National Register through consensus and is listed in the California Register because it is associated with the rebuilding of LAUSD Schools following the 1933 Long Beach Earthquake; embodies the distinctive characteristics of the Streamline Moderne style of architecture; represents a significant work of master architect Stiles O. Clements; and has retained integrity of setting, design, materials, workmanship, location, feeling, and association from its period of significance (1935-1937). The Administration and Classroom Building (Building 1), Auditorium (Building 2), Cafeteria Building (Building 3), and Main Classroom Building (Building 4), Mechanical Arts Building (Building 11) and Power House (Building 8) were determined contributors to the potential Historic District, as well as the majority of the landscape surrounding these Buildings 1 and 4.

4. Environmental Checklist and Analysis

The proposed Project would include renovations, modernizations, and new construction on the campus, in addition to the demolition of contributing and non-contributing buildings and structures. The proposed Project includes seismic retrofitting and/or modernization of four contributing buildings; the Administrative and Classroom Building (Building 1), the Auditorium Building (Building 2), and Classroom Building (Building 4). The exterior of the Cafeteria (Building 3) is only proposed to be painted. Furthermore, the proposed Project includes demolition of the contributing Mechanical Arts Building (Building 11) and the contributing Power House Building (Building 8), which would both be replaced under the Project with a new Athletics Building and lunch pavilion with landscaped courtyard. While these buildings are contributors to the potential Historic District they are not the most visually or functionally prominent buildings. Lastly, a new Classroom Building would be constructed in the place of the non-contributing Competitive and Practice Gymnasiums.

With the incorporation of SC-CUL-1, SC-CUL-2, and SC-CUL-3, the majority of the contributing buildings, as well as the contributing landscape, to the extent feasible, have been designed and would be rehabilitated in conformance with the SOI Standards for Rehabilitation, LAUSD Design Guidelines and Treatment Approaches for Historic Schools, and LAUSD's requirements and guidelines for the treatment of historical resources under the guidance of a qualified Historic Architect. Therefore, with the implementation of SC-CUL-1, SC-CUL-2, and SC-CUL-3, the proposed renovations of the Administrative and Classroom Building (Building 1), Cafeteria Building (Building 3), Classroom Building (Building 4), Auditorium Building (Building 2), and associated landscape would conform to the SOI Standards for Rehabilitation, the buildings and landscape would retain their integrity, and Thomas Jefferson HS would remain eligible for the National Register and California Register.

The demolition of the Mechanical Arts Building (Building 11) and the Power House (Building 8), contributing buildings to the potential Historic District, would result in the removal of contributing elements to the potential Historic District. The two buildings are contributing and would result in a loss of historic fabric; however, their removal would not materially impair or significantly detract from the overall site plan such that it would no longer be eligible as a potential Historic District. As such, removal of these buildings would not constitute a substantial adverse change in the historic significance or integrity of the potential Historic District. The implementation of SC-CUL-4 would require the recordation/documentation of these buildings in a HABS-like package.

The potential Historic District would retain sufficient integrity through the preservation of the majority of the contributing buildings and the contributing landscape. The CDFs of these contributing buildings would be restored or, in limited instances, replaced in-kind, ensuring the integrity of the historical resource and maintaining its eligibility for the National Register and California Register.

The Project would result in construction of two new buildings, the new Classroom Building and new Athletics Building, as well as a lunch pavilion with landscaped courtyard. With implementation of SC-CUL-1, SC-CUL-2, and SC-CUL-3, the proposed new construction would comply with SOI Standards 9 and 10, would be compatible with the size, scale and height of the Streamline Moderne style contributing buildings, features, and landscape that would remain, and would not destroy spatial relationships that characterize the potential Historic District.

Under the CEQA Guidelines, the significance of a historical resource is materially impaired when a project alters, in an adverse manner, those physical characteristics that account for its eligibility as a historical resource. The potential Historic District is seen as a single resource with the buildings, structures and other features, such as landscaping, as either contributing or non-contributing elements, or pieces, of a historic district. Therefore, with implementation of SC-CUL-1 through SC-CUL-6, Jefferson HS would retain sufficient integrity to remain eligible for the National Register and California Register as the majority of the contributing buildings and landscapes would be rehabilitated in conformance to the SOI Standards, new construction would conform to SOI Standards 9 and 10, and the two contributing buildings planned for demolition would be documented in a HABS-like recordation document and their CDFs would be salvaged per ~~LAUSD~~ SC-CUL-1 to SC-CUL-6 resulting in a less-than-significant impact. No mitigation or further study is required.

While the impact would be considered less than significant, LAUSD has proposed the following voluntary mitigation measure to further reduce the impacts of the loss of historic fabric that will result from the demolition of Mechanical Arts Building (Building 11) and the Power House (Building 8) as well as other alterations, discussed above, that would result in the loss of CDFs.

MM-CUL-1: To communicate stories, information, and experiences pertinent to the history/historic events that took place on the Jefferson High School campus, an Interpretive ~~Exhibit~~ Program shall be developed in collaboration with the Jefferson High School community (i.e. students, staff, alumni, community members, etc.). An interpretive Plan shall be developed by the District as a guideline for the Interpretive Program. The Interpretive ~~Exhibit~~ Program shall be located in a publically accessible area on campus (such as the school library) and shall describe the history of Jefferson High School prior to the Project; specifically, the period of significance (1935–1937) and key historical events that were relevant to Jefferson High School. The Interpretive Program may include ~~shall be highlighted through~~ historical photographs, aerials, Sanborn maps, student photographs, yearbooks, newspapers, artifacts, and written narrative that visually demonstrate ~~the~~ physical appearance, activities, and architectural style of the school. A District-approved representative shall provide input and oversight to the contents, design, and installation of the Interpretive Program. ~~or a qualified architectural historian or historic preservation professional shall provide input and oversight to the contents, design, and installation of this Interpretive Exhibit (as applicable).~~

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Less Than Significant Impact. A project may have a significant effect on the environment if it impacts archaeological resources that meet the definition of either historical resources (CEQA Guidelines Section15064.5[a]) or unique archaeological resources (CEQA PRC Section 21083.1[g]). A records search conducted at the South Central Coastal Information Center (SCCIC) on January 26, 2016[118] included a review of all previous cultural resources studies and previously documented archaeological resources within a ½-mile radius of the Project Site. Two archaeological resources (P-19-003822 and P-19-003889) have been previously documented within the ½-mile radius. Resource P-19-003822 consists of historic-period refuse deposits

[118] SCCIC File No. 15983.2090

identified during construction monitoring.[119] Resource P-19-003889 consists of a multicomponent archaeological site with historic-period refuse and one prehistoric chert core.[120]

Additional Archival Research

Additional archival research included a review of historic aerial photographs from 1948, 1952, 1964, 1980, 1989, and 1994,[121] historic topographic maps from 1896, 1900, 1902, and 1921,[122] and Los Angeles Public Library archives. Archival research indicates that the Project Site was the location of the "Old Coliseum" or "Stadium East Grounds" prior to the construction of the original school buildings in 1917.[123] The grounds held an amphitheater capable of seating about 20,000 to 25,000 individuals. The stadium appears to have been first erected in 1913[124] and modified or re-configured in 1914 or 1915.[125] It was used to host rodeos,[126] charity events,[127] demonstrations, plays and filming,[128] and pageants.[129] The bullfighting scene from the 1915 movie *Carmen*, directed by Cecil B. de Mille, was filmed at the stadium with the audience serving as the spectators in the stands.[130] In 1915, the stadium was used to host events designed to entertain tourists traveling between the Panama-California Exposition in San Diego and the Panama-Pacific International Exposition in San Francisco.[131] Later in 1915, the Project Site was identified as the location of the future Thomas Jefferson High School. The original school plans consisted of six buildings, including classics, science, manual arts, administration, and gymnasium buildings.[132] A substantial part of the grounds were used for agricultural and horticultural activities in the early days of the school's history,[133] as evident on a Sanborn Fire Insurance Map from 1922.[134] The original school buildings were severely damaged by the 1933 Long Beach Earthquake and the school was reconstructed in 1936.

Background research conducted for the Project indicates that the Project Site has a low sensitivity for prehistoric archaeological resources, but a higher sensitivity for historic-period archaeological resources (specifically resources associated with the early 1900s). There is potential for the unanticipated discovery of archaeological resources associated with early 1900s uses of the Project Site related to recreational and educational activities, including refuse deposits and building or structural foundations, which could be present in open spaces or capped under paved areas, as indicated by the geotechnical investigation prepared for the

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119 Warren, K. 2009. Site Record for P-19-003822. Document on file at SCCIC.
120 Covert, J., E. Game, and G. King. 2007. Site Record for P-19-003889. Document on file at SCCIC.
121 NETR Online, 2016. Historic Aerials from 1948, 1952, 1964, 1980, 1989, and 1994. Available at: http://www.historicaerials.com/, accessed February 22, 2016.
122 U.S. Geologic Survey, 2016. The National Map: Historical Topographic Collection. Available at://nationalmap.gov/historical/index.html accessed February 22, 2016.
123 Los Angeles Times. 1915. "Magnificent Educational Group to be Built in Southeast Los Angeles." Los Angeles Times, July 4, 1915, pg. V1.
124 Los Angeles Times. 1913. "Two Hundred Riders to Appear in Rodeo Stunts." Los Angeles Times, February 6, 1913, pg. III3.
125 Los Angeles Times. 1914. "Weld Old West with the New." Los Angeles Times, December 11, 1914, pg. III2.
126 Los Angeles Times. 1915. "Rodeo Plans Now Complete." Los Angeles Times, March 31, 1915, pg. III3.
127 Los Angeles Times, 1913, "Sit Tight and Hold Your Hay." Los Angeles Times, March 17, 1813, pg. II2.
128 Los Angeles Times. 1915. "Fair Youth in Gay Chariots." Los Angeles Times, June 2, 1915, pg. II1.
129 Los Angeles Times. 1915. Golden West as Pageant." Los Angeles Times, April 2, 1915, pg. II2.
130 Los Angeles Times. 1915. "Bullfight Scene From 'Carmen' Will Be Unique." Los Angeles Times, July 9, 1915, pg. III4
131 Los Angeles Times. 1915. "Los Angeles Fully Prepared." Los Angeles Times, April 11, 1915, pg. II1
132 Los Angeles Times. 1915. "Jefferson 'High' to Cost Quarter-Million." Los Angeles Times, July 4, 2015, pg. V1.
133 Ibid.
134 Sanborn Fire Insurance Map, 1922. Vol. 4, Sheet 499j. Document on file at Los Angeles Public Library.

Project[135] which indicates that the Project is underlain by up to 2.5 feet of fill containing "debris".[136] Since the Project includes ground disturbance, it could result in the unanticipated discovery of archaeological resources that qualify as historical resources or unique archaeological resources under CEQA. The Project requires compliance with SC-CUL-7 through SC-CUL-13 in order to reduce impacts to less than significant. These measures include retention of an on-call qualified archaeologist, implementation of an archaeological resources monitoring program, halting and re-directing work in the event of a discovery until it is evaluated for significance, cultural resources sensitivity training, and Phase III Data Recovery/Mitigation Program in the event that a significant resource is discovered and cannot be avoided. After implementation of these conditions, potential impacts related to archaeological resources would be less than significant. No mitigation or further study is required.

c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less Than Significant Impact. A paleontological records search was conducted by the Natural History Museum of Los Angeles County (LACM) on January 27, 2016.[137] The results indicate that no fossil localities are located within a ½-mile radius of the Project Site. Surficial deposits within the Project Site are composed of younger Quaternary alluvium (Qa) derived from floodplain deposits of the Los Angeles River that flows within the Project Site. These younger deposits typically do not contain significant vertebrate fossils; however, they are likely underlain by older Quaternary fluvial deposits (Qoa) which typically do contain significant vertebrate fossil remains.

The LACM reported several vertebrate fossil localities in older Quaternary deposits near the Project Site. The nearest fossil locality in these deposits is LACM 1755 and yielded a fossil specimen of horse (*Equus*) at unknown depth below the current ground surface. The next closest vertebrate locality is LACM 7758 and produced fossil specimens of three-spine stickleback (*Gasterosteus aculeatus*), meadow vole (*Microtus*), deer mouse (*Peromyscus*), pocket gopher (*Thomomys*), and pocket mouse (*Perognathus*) at a depth of 16 feet below the surface. LACM 7701-7702 produced fossil specimens of threespine stickleback (*Gasterosteus aculeatus*), salamander (*Batrachoseps*), lizard (Lacertilia), snake (Colubridae), rabbit (*Sylvilagus*), pocket mouse (*Microtus*), harvest mouse (*Reithrodontomys*), and pocket gopher (*Thomomys*), at depths of 11 to 34 feet below grade. According to the records search results, substantial excavation below the uppermost layers and into the older Quaternary (Qoa) deposits has the potential to unearth significant vertebrate fossils.[138]

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135 Gorian and Associates 2015. Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California.

136 Debris includes concrete and other building materials and may indicate the presence of subsurface historic-period archaeological deposits.

137 McLeod, S. 2016, Paleontological Resources for the Proposed Thomas Jefferson High School Comprehensive Modernization Project, ESA Project # 211085.23, in the City of Los Angeles, Los Angeles County, Project Area. Paleontological Records Search from the Natural History Museum of Los Angeles County, January 27, 2016.

138 Ibid

4. Environmental Checklist and Analysis

A desktop review was conducted to identify nearby paleontological localities from late Pleistocene (approximately 126,000-12,000 years ago) sediments similar to those underlying the Project Site. The review revealed more than a dozen Pleistocene vertebrate localities yielding a multitude of ice age animals, including but not limited to: mammoths, giant ground sloths, horses, camels, bison, saber-tooth cats, rodents, birds, reptiles, and amphibians.[139] The closest locality is located about 7 miles east-southeast from the Project Site. No unique geologic features were identified in the Project Site.

The results of a geotechnical investigation prepared for the Project were reviewed to further inform the paleontological analysis.[140] The investigation included five geotechnical borings drilled to depths of approximately 26 to 51½ feet below the existing ground surface (bgs) to evaluate the underlying soil conditions of the Project. The borings indicate that artificial fill containing some concrete debris and asphaltic debris is present at varying depths up to approximately 2.5 feet bgs. Beneath pavement, fill, or grass, alluvial deposits were encountered to the maximum depth of each boring.

No paleontological resources were identified within the Project Site. Background research conducted for the Project indicates that the proposed Project is underlain by younger Quaternary alluvium derived from floodplain deposits, which are likely underlain by older Quaternary fluvial deposits. The younger deposits do not typically contain significant fossil specimens; however, the older fluvial deposits have been shown to contain significant vertebrate fossil remains. Shallow excavations (<10 feet) are not likely to impact older sediments that have high potential to yield paleontological resources; and the new buildings would be developed in areas that have been previously disturbed with buildings and infill for the existing campus. However, given the preponderance of ice age mammals from similar sediments in the vicinity (about 15 miles) of the Project Site, there is a potential for encountering paleontological resources at deeper depths (>10 feet) and the proposed Project could result in a significant impact to unique paleontological resources under CEQA. The Project requires compliance with SC-CUL-14 and SC-CUL-15 in order to reduce impact to less than significant. The SCs measures include retention of an on-call qualified paleontologist, paleontological resources sensitivity training, implementation of a paleontological resources monitoring program, and halting and re-directing work in the event of a discovery until it is evaluated for significance. Implementation of these SCs would ensure that potential impacts to paleontological resources would be less than significant. No further study is required.

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139 Jefferson, G. T. 1991a. A Catalogue of Late Quaternary Vertebrates from California: Part One, nonmarine lower vertebrate and avian taxa. Natural History Museum of Los Angeles County Technical Reports no. 5.
Jefferson, G. T. 1991b, A catalogue of Late Quaternary Vertebrates from California: Part Two, Mammals. Natural History Museum of Los Angeles County Technical Reports no. 7.
Miller, W.E. 1971, Pleistocene Vertebrates of the Los Angeles Basin and Vicinity (Exclusive of Rancho La Brea). Los Angeles County Museum of Natural History Bulletin, Science: No. 10.

140 Gorian and Associates 2015. Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California

d) Disturb any human remains, including those interred outside of dedicated cemeteries.

Less Than Significant Impact. No known cemeteries or other burial places are known to exist within the Project Site and the proposed Project is unlikely to disturb human remains. However, because the proposed Project would involve ground disturbing activities, it is possible that such actions could unearth, expose, or disturb previously unknown human remains. In the event that human remains are encountered, the District would comply with State Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98 resulting in a less than significant impact. Impacts would be less than significant. No mitigation or further study is required.

4.6 GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. GEOLOGY AND SOILS. Would the Project:				
a. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving :				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☐	☒
ii. Strong seismic ground shaking?	☐	☐	☒	☐
iii. Seismic-related ground failure, including liquefaction?	☐	☐	☐	☒
iv. Landslides?	☐	☐	☐	☒
b. Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potential result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☒	☐
d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	☐	☐	☒	☐
e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒

Discussion

The following evaluation of geology and soils is based, in part, on the Preliminary Geotechnical Hazards Evaluation prepared for the Project Site in July 2015.[141] This Preliminary Geotechnical Hazards Evaluation, which is included as Appendix D of this IS/MND, evaluates geologic and soil conditions at and in the immediate vicinity of the proposed Project Site, as well as providing site-specific recommendations for geotechnical seismic design and onsite soil expansiveness and corrosivity.[142]

[141] Gorian & Associates. 2015, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California, July 9, 2015.
[142] Ibid.

The Program EIR SCs for minimizing impacts to geology and soils of the existing environment in areas where future projects would be implemented under the SUP. Applicable SCs related to geology and soils impacts associated with the proposed Project are provided in *Table 4.6-1*.

TABLE 4.6-1
GEOLOGY AND SOILS STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-GEO-1	**OEHS CEQA Specification Manual, Appendix G, Supplemental Geohazard Assessment Scope of Work.** This document outlines the procedures and scope for LAUSD geohazard assessments.
SC-HWQ-1	**Stormwater Technical Manual** This manual establishes design requirements and provides guidance for the cost-effective improvement of water quality in new and significantly redeveloped LAUSD school sites. These guidelines are intended to improve water quality and mitigate potential impacts to the Maximum Extent Practicable (MEP). While these guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) requirements. The guidelines address the mandated post-construction element of the National Pollutant Discharge Elimination System (NPDES) program requirements
SC-HWQ-2	**Compliance Checklist for Storm Water Requirements at Construction Sites.** This checklist has requirements for compliance with the General Construction Activity Permit and is used by OEHS to evaluate permit compliance. Requirements listed include a Stormwater Pollution Prevention Plan (SWPPP); BMPs for minimizing storm water pollution to be specified in a SWPPP; and monitoring storm water discharges to ensure that sedimentation of downstream waters remains within regulatory limits.

Impact Analysis

Would the Project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to Division of Mines and Geology Special Publication 42.)

No Impact. The Alquist-Priolo Earthquake Fault Zoning Act requires the delineation of zones along active faults in California. The purpose of the Alquist-Priolo Act is to regulate development and prohibit construction on or near active fault traces to reduce hazards associated with fault rupture. The Alquist-Priolo Earthquake Fault Zones are the regulatory zones that include surface traces of active faults. There are no active faults crossing the Project Site, and the Project Site is not located within an Alquist-Priolo Earthquake Fault Zone.[143] The closest historically active surface faults are

[143] Gorian & Associates. 2015, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California, July 9, 2015.

the Newport Inglewood fault zone located approximately 6 miles southwest of the Project Site and the Hollywood fault located approximately 7 miles northwest of the Project Site.[144] Therefore, there would be no impact associated with rupture of a known earthquake fault. No mitigation or further study is required.

ii) Strong seismic ground shaking?

Less Than Significant Impact. The Project Site is located in a seismically active region. The City, as with all of Southern California, is subject to strong ground shaking. The closest major active faults are the Newport-Inglewood fault located approximately 6 miles southwest of the Project Site, and the Hollywood fault located approximately 7 miles northwest of the Project Site. These faults could have the potential to generate strong seismic ground shaking at the Project Site during an earthquake event.[145] The proposed facilities would be required to comply with the geotechnical and seismic design requirements of the most recent version of the California Building Code (CBC) (Title 24), which requires structural design that can accommodate ground accelerations expected from known active faults. In addition, implementation of the proposed Project would seismically retrofit the Administrative and Academic Building (including the Library), Main Classroom Building, and Cafeteria Building. Seismic retrofitting would be in compliance with the seismic safety requirements of the LAUSD Supplemental Geohazard Assessment Scope of Work, CBC, Division of State Architect, and California Department of Education, as required by SC-GEO-1. The retrofitting activities would include, but would not be limited to bracing, construction, and reinforcing of walls. Therefore, implementation of the proposed Project would result in less-than-significant impacts associated with strong seismic ground shaking. No mitigation or further study is required.

iii) Seismic-related ground failure, including liquefaction?

No Impact. Liquefaction is a seismic phenomenon where unconsolidated and/or near saturated soils lose cohesion and are converted to a fluid state as a result of severe vibratory motion. The geotechnical evaluation for the proposed Project determined that the site is not within an area zoned by the State as being susceptible to liquefaction.[146] In addition, the historic high groundwater is deeper than 50 to 70 feet below grade, keeping the potential for soil saturation low.[147] Therefore, no impacts associated with liquefaction would occur. No mitigation or further study is required.

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144 Gorian & Associates. 2015, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California, July 9, 2015.
145 Gorian & Associates. 2015, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California, July 9, 2015.
146 Ibid.
147 Ibid.

iv) Landslides?

No Impact. The geotechnical evaluation for the proposed Project determined that no landslide hazards are present within or near the Project Site, nor are any shown on regional geologic maps.[148] Further, LAUSD policy dictates that schools will not be constructed in areas that are prone to landslides. LAUSD conducts a comprehensive site-specific geotechnical investigation, which also includes an assessment of existing landslide potential on and next to the Project Site, as well as the potential for the Project to increase landslide hazards on or adjacent to the site. Implementation of the Project would not expose people or structures to substantial adverse hazards due to landslides, and there would be no impact in this regard. No mitigation or further study is required.

b) Result in substantial soil erosion or the loss of topsoil?

Less Than Significant Impact The proposed Project would include grading and earthmoving activities at the Project Site that could expose soils to erosion from heavy winds, rainfall, or runoff. As Project construction would disturb more than 1 acre of soil, the Project operator would be required to comply with SC-GEO-1 Geohazard Assessment Scope of Work, including the National Pollutant Discharge Elimination System (NPDES) Construction General Permit. In compliance with this permit and SC-HWQ-1 and SC-HWQ-2, a Storm Water Pollution Prevention Program (SWPPP) would be prepared and implemented, as applicable. It would require erosion control, sediment control, and BMPs to minimize loss of topsoil or substantial erosion. Construction contractors are responsible for implementation of the SWPPP, which includes maintenance, inspection, and repair of erosion and sediment control measures and water quality BMPs throughout the construction period. Once constructed, disturbed areas would be protected by coverings such as structures, pavement, concrete, or vegetation, and the potential for long-term erosion or loss of topsoil would be reduced to less than significant. Therefore, with implementation of these requirements and associated BMPs, erosion related to construction activities and operation of the proposed Project would be less than significant. No mitigation or further study is required.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction or collapse?

Less Than Significant Impact. The geotechnical evaluation for the proposed Project determined that there is a low potential for hydro-collapse of the underlying soils to a depth of 50 feet below the existing ground surface.[149] The geotechnical evaluation also determined that onsite soils are moderately corrosive to negligibly corrosive.[150] Further, based on the soil properties of the Project Site, seismically induced settlement on the order of approximately 1 inch could be anticipated.[151] While settlement is anticipated to be minor, soils could become unstable over time. Per the Project design and SC-GEO-1, prior to the issuance of a grading permit,

[148] Ibid.
[149] Gorian & Associates. 2015, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California.
[150] Ibid.
[151] Ibid.

the applicant shall demonstrate that all recommendations contained in the Project specific Preliminary Geotechnical Hazards Evaluation (geotechnical report) are incorporated into the Project design prior to construction. These recommendations may include, but are not limited to, soil compaction, foundation design, and subgrade preparation details. Adherence to the recommendations contained in the Project-specific geotechnical report would reduce the risks associated with unstable soils. Impacts associated with unstable soils would be less than significant. No mitigation or further study is required.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

Less Than Significant Impact. Expansive soils possess a shrink-swell characteristic that can result in structural damage over a long period of time. Expansive soils expand in volume when water is absorbed and shrink when dried. The geotechnical evaluation for the proposed Project determined that the underlying native alluvial materials are very low in soil expansion potential.[152] However, some of the existing fill soils on the Project Site have a medium expansion potential. This medium expansive material could result in significant impacts related to the risks to life or property. However, implementation of SC-GEO-1 (described above) would reduce impacts regarding expansive soil by incorporating all geotechnical recommendations into the design of the proposed Project. Recommendations include, but are not limited to, concrete placement and cracking, under-slab treatment, conventional footings, and moisture content tests. After implementation of SC-GEO-1 potential impacts associated with expansive soils would be less than significant. No mitigation or further study is required.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact. The proposed Project would not include the installation or use of septic tanks or alternative wastewater disposal systems. The proposed Project would connect to the existing sanitary sewer system for wastewater disposal. Thus, no impact associated related to alternative wastewater disposal systems would occur. No mitigation or further study is required.

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[152] Gorian & Associates. 2015, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California.

4.7 GREENHOUSE GAS EMISSIONS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GREENHOUSE GAS EMISSIONS. Would the Project:				
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Discussion

The Program EIR includes SCs for minimizing impacts related to greenhouse gas (GHG) emissions in areas where future Projects would be implemented under the SUP. Applicable SCs related to greenhouse gas emissions impacts associated with the proposed Project are provided in *Table 4.7-1*. The analysis below is based in part on the Air Quality Technical Report[153] prepared for the proposed Project (Appendix A).

TABLE 4.7-1
GREENHOUSE GAS EMISSIONS STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-GHG-1	During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping and tanks to minimize water loss.
SC-GHG-2	LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation.
SC-GHG-3	LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season.
SC-GHG-4	LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources.
SC-GHG-5	LAUSD shall ensure that the time dependent valued energy of the proposed Project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency standards that are in force at the time the Project is submitted to the Division of the State Architect..

153 ESA, 2018. Los Angeles Unified School District, Thomas Jefferson High School Comprehensive Modernization Project. Prepared for Los Angeles Unified School District. April 2018.

Operational GHG emissions from land use projects such as schools primarily result from transportation and building energy use. With respect to SUP modernization projects, the Program EIR states that operational activities would be less than significant, because these projects would not increase capacity of existing schools and net project emissions would be minimal. Additionally, overall District enrollment is forecast to decrease over the next 10 years and operational emissions are not expected to increase in the long term.

Further, projects implemented under the SUP are anticipated to have less than significant and potentially significant impacts related to climate change within the LAUSD service area with the incorporation of SCs. The Project-specific analysis provided below determined that implementation of the proposed Project would have less than significant impacts related to climate change with the incorporation of SCs.

Impact Analysis

Would the Project:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant Impact. Global climate change refers to changes in average climatic conditions on Earth as a whole, including changes in temperature, wind patterns, precipitation and storms. GHGs are those compounds in the Earth's atmosphere which play a critical role in determining temperature near the Earth's surface. GHGs include carbon dioxide (CO_2), methane (CH_4), ozone (O_3), water vapor, nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF6). Specifically, these gases allow high-frequency shortwave solar radiation to enter the Earth's atmosphere, but retain some of the low frequency infrared energy which is radiated back from the Earth toward space, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect.

Increased concentrations of GHGs in the Earth's atmosphere have been linked to global climate change and such conditions as rising surface temperatures, melting icebergs and snowpack, rising sea levels, and the increased frequency and magnitude of severe weather conditions. Existing climate change models also show that climate warming portends a variety of impacts related to agriculture, including loss of microclimates that support specific crops, increased pressure from invasive weeds and diseases, and loss of productivity due to changes in water reliability and availability. In addition, rising temperatures and shifts in microclimates associated with global climate change are expected to increase the frequency and intensity of wildfires. There continues to be significant scientific uncertainty concerning the extent to which increased concentrations of GHGs have caused or will cause climate change, and over the appropriate actions to limit and/or respond to climate change.

No individual project is large enough to single-handedly result in a significant increase in global concentrations of GHGs, as GHG emissions related to a project are not confined to a particular air basin but are dispersed

worldwide. As such, by their nature, project-related climate change impacts contribute cumulatively to this impact, through direct and indirect GHG emissions.[154]

When GHGs exceed natural concentrations in the atmosphere, the greenhouse effect may be intensified. CO_2, CH_4 and N_2O occur naturally and through human activity. Emissions of CO_2 are largely by-products of fossil fuel combustion, whereas CH_4 results from off-gassing associated with agricultural practices and landfills. Other human-generated GHGs include fluorinated gases such as SFCs, PFCs and SF_6, which have much higher heat-absorption potential than CO_2, and are byproducts of certain industrial processes.

CO_2 is the reference gas for climate change because it is the predominant GHG emitted. The effect that each greenhouse gas can have on global warming is a combination of their mass and their global warming potential (GWP). GWP indicates, on a pound-for-pound basis, how much a gas contributes to global warming relative to how much warming would be caused by the same mass of CO_2. For example, CH_4 and N_2O are substantially more potent GHGs than CO_2, with GWPs of 21 and 310 times that of CO_2, respectively.

In emissions inventories, GHG emissions are typically reported as pounds or metric tons of CO_2 equivalents ($MTCO_2e$). CO_2e is calculated as the product of the mass emitted of a given GHG multiplied by its specific GWP. While CH_4 and N_2O have much higher GWPs than CO_2, CO_2 is emitted in such vastly higher quantities that it accounts for the majority of GHG emissions in CO_2e, both from residential/commercial developments and human activity in general.

As discussed in the Program EIR, for projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, the SCAQMD proposed a "bright-line" screening-level threshold of 3,000 $MTCO_2e$ annually for all land use projects. The SCAQMD proposed this "bright-line" screening-level threshold "to achieve the same policy objective of capturing 90 percent of the GHG emissions from new development projects in the residential/commercial sectors."[155] In the California Air Pollution Control Officers Association (CAPCOA) *CEQA and Climate Change* white paper (January 2008), CAPCOA suggested a possible quantitative threshold option that would capture 90 percent of GHG emissions from future discretionary development projects. According to CAPCOA, the "objective was to set the emission threshold low enough to capture a substantial fraction of future residential and nonresidential development that will be constructed to accommodate future Statewide population and job growth, while setting the emission threshold high enough to exclude small development projects that will contribute a relatively small fraction of the cumulative Statewide GHG emissions."[156] A 90 percent capture rate would "exclude the smallest proposed developments from potentially burdensome requirements … to mitigate GHG emissions."[157] The SCAQMD's proposed screening level of 3,000 $MTCO_2e$ per year is a South Coast Air Basin-specific level that

154 *LAUSD School Upgrade Program Final Environmental Impact Report,* September 2015, at page 5.7-15 to 5.7-18.

155 South Coast Air Quality Management District, Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, Appendix E, p. 2-6, (2008). Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf?sfvrsn=2. Accessed October 2017.

156 California Air Pollution Control Officer's Association, CEQA and Climate Change, (2008) 42-43.

157 California Air Pollution Control Officer's Association, CEQA and Climate Change, (2008) 43-44.

would meet CAPCOA's intent for the suggested quantitative threshold option and is consistent with the Program EIR. Therefore, this threshold is used to evaluate project GHG emissions.

Construction

The proposed Project would replace and modernize existing structures at the Thomas Jefferson High School campus. *Table 4.7-2* shows the proposed Project's GHG emissions. Although construction activities would increase GHG emissions, those emissions would be relatively minor, and would cease after completion of construction. As shown in Table 4.7-2, the highest anticipated construction-related emissions associated with the proposed Project would be 864 $MTCO_2e$ in Phase 2 of the Project. Typically, GHG construction emissions are amortized over 30 years and added to operational emissions. The proposed Project is expected to add a total of 3,027 $MTCO_2e$ over the construction duration. The total Project GHG emissions amortized over 30 years would be the equivalent of 101 $MTCO_2e$ over the course of a 30-year period and would be less than the SCAQMD's interim threshold of 3,000 $MTCO_2e$ per year. Therefore, construction impacts would be less than significant. No mitigation or further study is required.

TABLE 4.7-2
PROJECT-SPECIFIC CONSTRUCTION GHG EMISSIONS (METRIC TONS)

Emissions Source	CO_2e (metric tons) [a]
Phase 1 Construction (with soil removal)	313
Phase 2	856
Phase 3	864
Phase 4	806
Phase 5	187
Total	**3,027**
Annual (Amortized over 30 years)	**101**

[a] Totals may not add up exactly due to rounding in the modeling calculations

SOURCE: ESA, 2017

Operation

The proposed Project would replace or upgrade facilities on the Jefferson HS campus, but it would not increase the number of students or faculty at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating/cooling and other onsite sources. Therefore, there would be no net increase in regional GHG emissions as a result of Project implementation. GHG emissions are likely to be less than existing after Project implementation as the improved buildings would be required to meet the California Energy Commission's most recent energy standards (Title 24) and would require that the new buildings use less energy per square foot compared to existing buildings. As discussed above, operational emissions would not change as a result of Project implementation and when added to amortized construction

emissions, an increase of 101 $MTCO_2e$ would occur, which is well below the 3,000 MT CO_2e, SCAQMD interim threshold. Additionally, the District is required to comply with all applicable SCs, and would implement SCs GHG-1 through GHG-5, which would further reduce Project-related GHG impacts. Therefore, the cumulative contribution to GHG emissions would be less than significant. No mitigation or further study is required.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant Impact. As described in the Program EIR, implementation of the SUP would be consistent with plans adopted for the purpose of reducing GHG emissions, such as the SCAG RTP/SCS, California Assembly Bill 32, CARB Scoping Plan, and other Statewide strategies to reduce GHG emissions.[158] Development of the proposed Project would replace and modernize facilities at Jefferson HS, but it would not increase the number of students or faculty at the school and therefore, would not result in an increase in vehicle trips to the school. As such, GHG emissions related to vehicle trips would not increase as a result of the proposed Project and the Project would not conflict with the goals of the RTP/SCS.

Additionally, SUP-related projects, including the proposed Project, would comply with the District's GHG emission reduction measures. LAUSD's School Design Guide requires construction contractors to reuse, recycle, and salvage non-hazardous materials generated during demolition and/or new construction, as materials recovery would minimize the need to produce and transport new materials, thereby reducing emissions from mobile sources and energy use.[159] With respect to all SUP projects, implementation of SCs GHG-1 through GHG-5 would ensure that the proposed Project would not conflict with applicable plans, policies or regulations adopted for the purpose of reducing GHG emissions. Therefore, with implementation of SCs GHG-1 through GHG-5 and compliance with Title 24, the Project would not conflict with plans, policies, or regulations adopted for the purpose of reducing GHG emissions. Therefore, impacts would be less than significant. No mitigation or further study is required.

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158 Ibid. Pgs 5.7-18 to 5.7-19.

159 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. Pg. 5.7-18 to 5.7-19.

4.8 HAZARDS AND HAZARDOUS MATERIALS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. HAZARDS AND HAZARDOUS MATERIALS. Would the Project:				
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e. For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the Project area?	☐	☐	☐	☒
f. For a Project within the vicinity of a private airstrip, would the Project result in a safety hazard for the people residing or working in the area?	☐	☐	☐	☒
g. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
h. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	☐	☐	☐	☒

Discussion

The following evaluation of hazards and hazardous materials is based, in part, on the Phase I Environmental Site Assessment (Phase I ESA) prepared for the Project Site in May 2016, the Draft PEA-E prepared for the Project Site in February 2017, and the RAW prepared for the Project Site in May 2017. The Phase I ESA

(Appendix E), PEA (Appendix F), and RAW (Appendix G) of this IS provide an assessment concerning environmental conditions as they exist on the Jefferson HS property.

The Program EIR evaluated the potential for implementation of SUP-related projects to result in impacts related to hazards and hazardous materials and determined that projects implemented under the SUP are anticipated to have less-than-significant impacts with regard to hazards and hazardous materials within the LAUSD service area.

Projects implemented under the Program EIR are anticipated to have less than significant impacts related to hazards and hazardous materials within the LAUSD service area. The Project-specific analysis provided below determined that implementation of the proposed Project would also have less than significant impacts related to hazards and hazardous materials in the Project area.

Impact Analysis

Would the Project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant Impact. Project-related construction activities would involve transport, use, and disposal of hazardous materials such as solvents, oils, grease, and cleaning fluids. In addition, hazardous materials may be needed for fueling and servicing construction equipment on the Project Site. The use of these materials during Project construction would be short-term in nature, and would occur in accordance with standard construction practices. All transport, handling, use, and disposal of substances such as petroleum products related to construction would comply with all federal, State, and local laws regulating the management and use of hazardous materials. These laws include but are not limited to: the Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), federal Clean Air Act that regulates asbestos as a hazardous air pollutant and the Occupational Safety and Health Administration (OSHA) that regulates asbestos as a potential worker safety hazard. Construction activities that involve hazardous materials would be governed by several agencies, including the California Environmental Protection Agency (CalEPA), Caltrans, California Division of Occupational Safety and Health (Cal/OSHA), DTSC, and the Los Angeles Fire Department. BMPs would be in place to ensure the lawful and proper storage and use of these materials and as such, potential impacts would be would be less than significant. As discussed in the Program EIR, the types and amounts of hazardous materials that are now handled by LAUSD are not expected to substantially change upon construction of individual projects or upon completion of the SUP in its entirety. The amounts of hazardous materials handled at a given campus would remain relatively small and would be subject to federal, State, and local health and safety requirements. LAUSD would continue to implement its existing programs, practices, and procedures for handling hazardous materials, which would be extended to all new facilities.

Long-term operation of the proposed Project would involve very little transport, storage, use, or disposal of hazardous materials and substances. LAUSD's OEHS developed and implemented a Chemical Hygiene Plan to minimize employee and student exposure to hazardous chemicals in schools with laboratories. Site

Administrators are required to appoint a Chemical Safety Coordinator to implement the Chemical Hygiene Plan and to assist the Site Administrator in complying with hazardous material management, conducting employee trainings, and established laboratory safety protocols. The types of hazardous materials associated with operation of a school would generally be limited to those associated with janitorial, maintenance, and repair activities, such as commercial cleansers, paints, aerosol cans, lubricants, and automotive supplies (by-products), etc. The amounts and use of these materials would be limited, and the transport, storage, use, and disposal of these materials would be subject to federal, State, and local health and safety requirements. Such requirements would be incorporated into the design and operation of the Project. The requirements may include: providing for and maintaining safety data sheets, appropriate storage areas for hazardous materials and installing or affixing appropriate warning signs and labels. Therefore, the proposed Project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. No mitigation or further study is required.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less Than Significant Impact. Hazardous materials that would be used during construction (e.g., petroleum-based products, paints, solvents, sealers, etc.) would be transported, used, stored, and disposed of compliant with all applicable federal, State, and local regulations. This would ensure affixing appropriate warning signs and labels, installing emergency wash areas, providing well ventilated areas and special plumbing, and maintaining adult supervision. Compliance with applicable laws, regulations and standard LAUSD policies and practices during Project construction and operation would ensure that impacts associated with upset or accident conditions which could cause a release of hazardous materials into the environment are less than significant. Consequently, the potential for a significant release involving these materials is relatively low.

An important component of the SUP is to eliminate hazards associated with asbestos and lead-based paint in existing buildings to be demolished, as would be the case with the proposed Project. With respect to asbestos containing materials (ACM), the Program EIR provides a complete protocol for the handing of ACM, including required procedures whenever ACM would be disturbed, in compliance with federal and State regulations.

The Administrative and Academic Building and Cafeteria Building, located in the southern portion of the Project Site, were constructed in 1935. The Mechanical Arts Building was constructed in 1937, and the Home Economics Building was constructed in 1959. Implementation of the proposed Project would renovate the Administrative and Academic Building, Cafeteria Building, and demolish the Mechanical Arts and Home Economics Buildings. Asbestos and lead materials were phased out in the mid to late 1970s, and therefore due to the age of the structures, asbestos and lead materials could be present in the structures. An asbestos survey was completed for the campus in 2017.[160] Based on the results of the survey, asbestos was detected in the Administrative and Academic Building, Cafeteria Building, Assembly Building, Boys' Gymnasium, Girls'

[160] Citadel Environmental Services, Inc., 2017, Asbestos Engineering Assessment, Jefferson High School, 1319 E. 41st Street, Los Angeles, California 90011 Comprehensive Modernization Project.

Gymnasium, Power Vault Building, Mechanical Arts Building, Music Building, Home Economics Building, Industrial Arts Building, Metal Shop Building, Science and Classroom Building, Potential accidental release of hazardous materials could result in exposure of construction workers and the environment to hazardous building materials, such as asbestos and lead-based paint, during renovation and demolition activities.[161]

The federal Clean Air Act regulates asbestos as a hazardous air pollutant, which subjects it to regulation by the SCAQMD under its Rule 1403. OSHA also regulates asbestos as a potential worker safety hazard. The Asbestos-Containing Materials in Schools rule (Code of Federal Regulations [CFR] Title 40, Part 763) requires local education agencies to inspect their school buildings for asbestos-containing building materials, prepare asbestos management plans, and perform asbestos response actions to prevent or reduce asbestos hazards. Compliance with asbestos regulations and requirements is the responsibility of the District's Facilities Environmental Technical Unit (FETU). The proposed Project would be reviewed for presence of potential ACM prior to Project initiation, and materials that are suspected of containing asbestos would be tested. All ACM must be removed by licensed asbestos abatement contractors or by trained and certified FETU personnel using specific handling procedures. In addition, construction contractors are required to comply with the requirements of the District's Standard Specification Section 13280, "Asbestos Abatement and Asbestos Related Disturbance" during any project where ACM may be disturbed. Compliance with federal and State regulations and the District guidelines and procedures would ensure the reduced risk of release of hazardous building materials into the environment. Therefore, impacts associated with the handling and disposal of ACM would be less than significant. No mitigation or further study is required.

As with asbestos, the proposed Project would be reviewed by the District's FETU for the presence of potential lead-based paint (LBP) prior to the Project being started. Specific procedures for handling building materials that may contain lead include, but are not limited to, lead abatement performed by contractors certified by the California Department of Public Health, review of assessment reports addressing the impact to lead-based materials, written approval by the District's environmental representative of the abatement work plan, and transportation of lead-related waste under a Uniform Hazardous Waste Manifest. In addition, construction contractors are required to comply with the requirements of the District's Standard Specification Section 13282, "Lead Abatement and Lead Related Construction Work" during any project where lead-containing materials may be disturbed. Compliance with federal and State regulations and the District guidelines and procedures would ensure that impacts associated with the handling and disposal of LBP would be less than significant. No mitigation or further study is required.

Polychlorinated biphenyls (PCBs) were historically used as coolants, insulating materials and lubricants in electrical materials, such as transformers. PCBs were also used widely in caulking and elastic sealant materials, particularly from 1950 through the 1970's until PCBs were banned in 1979. DTSC guidance indicates that PCBs may exist in soil near exterior caulking present in buildings meeting the age criteria and adjacent unpaved areas.[162] The Phase I Environmental Site Assessment Report (Phase I ESA) for the proposed Project indicated

[161] Ibid.
[162] Partner Engineering and Science, Inc. 2016. Phase I Environmental Site Assessment Report, Thomas Jefferson High School. Los Angeles, CA.

that there were three onsite pad-mounted transformers observed on the property.[163] The transformers were not labeled as containing PCB contents and no staining or leakage was observed in the vicinity of the transformers.[164] The Phase I ESA concluded that based upon the condition of the transformers on the site, as well as subsequent observations, certifications, and research, the potential for any PCB-containing electrical equipment to remain onsite appears to be low.[165] Nevertheless, prior to rehabilitation activities, sampling would be completed for additional potentially PCB containing material including caulking, etc., in accordance with the District's policies regarding PCBs.[166] If PCBs are identified during demolition and construction activities on the Project Site, District protocols would be followed for the proper identification, handling, and removal of such materials as appropriate.

According to the Phase I ESA the Project Site contained industrial arts classrooms including two auto engine and auto body repair. The Project Site is equipped with two below grade hydraulic lifts located within the south end of the former industrial arts building and with a spray booth on the north end of the building. The lifts were reportedly installed during building construction in the 1960s and the spray booth was installed in the 1980s. Three oil/water separators (clarifiers) are located to the north and east of the industrial arts building and are connected to floor drains in the spray booth and in the repair areas. A shop area in the industrial arts building was previously used for metal, electrical, wood-working, and printing classrooms. One hazardous materials storage enclosure contains 55-gallon drums of gasoline and diesel fuel and is located in the west of the current arts building. Another hazardous materials storage enclosure used to store waste oil, filters, and coolant in 55-gallon drums is located on the east of the industrial arts building. A boiler house was constructed in 1916 and formerly housed fuel oil boilers and an incinerator. The Project Site appears to have been used for agriculture until the 1950s or 1960s.[167] Organochlorine pesticides may have been used historically in these areas.

Investigation of the soil throughout the Project Site at various depths was conducted in July 2016 through November 2016. Soil samples were collected throughout the Site at various depths and analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), arsenic, lead, and Title 22 metals.[168] While several analytes were found at levels in excess of laboratory detection limits, only lead and arsenic were identified in soil samples in excess of residential screening levels.[169]

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163 ~~Ibid~~Partner Engineering and Science, Inc. 2016. Phase I Environmental Site Assessment Report, Thomas Jefferson High School. Los Angeles, CA.

164 Ibid.

165 Ibid.

166 LAUSD OEHS. "Guidelines and Procedures to Address Polychlorinated Biphenyls (PCBs) in Building Materials, Office of Environmental Health and Safety, October 2016." Available at http://achieve.lausd.net/Page/3495 and LAUSD OEHS. "LAUSD Design Standards, Specification Document 02 8400, Polychlorinated Biphenyl (PCB) Remediation, Rev 3.0, Revised February 1, 2017." Available at http://achieve.lausd.net/Page/3495.

167 Partner Engineering and Science, Inc. 2016. Phase I Environmental Site Assessment Report, Thomas Jefferson High School. Los Angeles, CA.

168 Alta Environmental. 2017. Draft Removal Action Workplan for Soil, Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California. May 10.

169 Alta Environmental. 2017. Draft Removal Action Workplan for Soil, Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California. May 10.

Implementation of the proposed RAW would mitigate the potential threat to human health and the environment posed by affected soils at the Project Site. The RAW estimates that the proposed Project would include removal and offsite disposal of an estimated 230 cubic yards of contaminated soil.

Due to the historic use of hazardous materials onsite, there is the potential for the release of hazardous material or exposure of the public to hazardous materials. However, because the affected soils onsite would be removed, implementation of the RAW would ensure the safety of construction workers, employees, students, and staff during construction and operation of the proposed Project. The proposed Project would result in excavation and removal of up to 230 cubic yards of impacted soils and replacement with clean, engineered fill. The soil would be removed using backhoes and/or excavators equipped with bladed buckets and would be either directly loaded to open end dump trucks for immediate offsite transport or staged in temporary stockpiles on plastic liners next to the excavation. All RAW contractors and subcontractors would be responsible for operating in accordance with the most current requirements of Title 8, CCR (i.e., General Industry and Construction Safety Orders) ([Section 5129]), Title 29 of the Code of Federal Regulations (i.e., Standards for Hazardous Waste Operations and Emergency Response [Section 1910.120] and Construction Industry Standards [Section 1926]), and other applicable federal, State and local laws and regulations. All personnel would operate in compliance with all California OSHA requirements.

Compliance with regulatory requirements would ensure that the proposed Project would result in less than significant impacts. No mitigation or further study is required.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less Than Significant Impact. The proposed Project is located on the site of an existing school campus. The proposed Project would involve the excavation and removal of impacted soil. Dust control measures would be implemented during remedial activities to reduce the potential for fugitive dust and migration of contaminants in compliance with requirements contained in SCAQMD Rule 402. Removal of impacted soil would be completed in conformance with federal, State, and local hazardous waste/materials regulations, as well as with any applicable District standards. Compliance with regulatory requirements would ensure that the proposed Project would not result in hazardous emissions, materials or substances within 0.25 miles of an existing school and impacts would be less than significant. No mitigation or further study is required.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact. Government Code Section 65962.5, amended in 1992, requires CalEPA to develop and update annually the Cortese List, which is a list of hazardous waste sites and other contaminated sites. While Government Code Section 65962.5 makes reference to the preparation of a list, many changes have occurred related to web-based information access since 1992, and information regarding the Cortese List is now compiled on the websites of DTSC, the California State Water Resources Control Board (SWRCB), and CalEPA. DTSC maintains the EnviroStor database, which includes sites on the Cortese List and also identifies potentially hazardous sites where cleanup actions (such as removal action) or extensive investigations are planned or have occurred. Review of the EnviroStor database showed that the Project Site is not identified on any of the above database lists. Also, the State Water Board maintains the GeoTracker database which is a groundwater quality monitoring database. According to both the EnviroStor and GeoTracker databases, there are no documented hazardous materials at the Project Site.[170,171] The proposed Project would not be located on a site that is included on a list of hazardous materials sites pursuant to Government Code Section 65962.5, and therefore no impact would occur. No mitigation or further study is required.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the project area?

No Impact. The nearest airport to the Project Site is Los Angeles International Airport (LAX), located approximately 9 miles southwest of the Project Site. The proposed Project is not located within the LAX Land Use Plan Airport Influence Area.[172] Therefore, the proposed Project would not create a safety hazard from proximity to a public airport, and no impact would occur. No mitigation or further study is required.

f) For a project within the vicinity of a private airstrip, would the Project result in a safety hazard for people residing or working in the project area?

No Impact. There are 54 private-use heliports within the City of Los Angeles.[173] The Project Site does not include a private-use heliport. The nearest private helipad, the Jay Stephen Hooper Memorial Heliport (City-owned, private-use) located approximately 3.3 miles northeast of the Project Site. Demolition and new construction on the existing school site would not create any new safety hazards associated with heliport operations. Therefore, the proposed Project would not create a safety hazard from proximity to a private airstrip, and no impact would occur. No mitigation or further study is required.

170 DTSC, 2017. EnviroStor Database. Available at: https://www.envirostor.dtsc.ca.gov/public/, accessed August 16, 2017.
171 SWRCB, 2017. GeoTracker Map. Available at: https://geotracker.waterboards.ca.gov/, accessed August 28, 2017.
172 Los Angeles County Airport Land Use Commission (ALUC). 2003. Los Angeles International Airport: Airport Influence Area Map.
173 Airnav.com. 2016. Airports in Los Angeles. Available: http://www.airnav.com/airports/get.Accessed February 23, 2016.

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact. The Project Site is an existing school campus that would adhere to LAUSD's emergency response plans. During construction, emergency response procedures would be governed by the District's emergency response protocol and the contractor's emergency response plan. Construction of the proposed Project would involve the transport of equipment and materials on public roadways. Other than delivery of materials and supplies to the Project Site and the hauling of debris and soil from the Project Site, construction of the proposed Project would be confined within the campus boundaries.

Upon completion of the proposed Project, District-wide emergency response plans, policies, and guidance developed by LAUSD would be extended to the new facilities. In addition, LAUSD developed a district-wide Emergency Operations Plan (EOP) that assigns responsibilities and provides a framework for coordination of response and recovery efforts in the event of an emergency. District schools are also required to comply with California Code Sections 32281-32289, dealing with the preparation of Safe School Plans (SSPs), which must be reviewed and updated every year. As noted in the Program EIR, the proposed Project would conform to local ordinances and would not interfere with an existing emergency response or evacuation plan; such as the EOP or SSP for the campus or for the surrounding City of Los Angeles, these plans include but are not limited to: the City's Emergency Operations Master Plan, Local Hazard Mitigation Plan, the Los Angeles County Operational Area Emergency Response Plan, and the County All-Hazards Mitigation Plan. All construction, modernization, and repair work would not impede emergency access into the surrounding community.

Public schools are considered critical community facilities and are often used as evacuation centers during disasters. Project construction would be completed in phases which would allow partial use of the campus in the event of an emergency. Implementation of the proposed Project includes seismic retrofits to the Administrative and Academic Building and Cafeteria Buildings resulting favorably on emergency response by making improvements that would comply with current seismic standards and making buildings that could be used as evacuation points in the event of a disaster. Therefore, impacts associated with implementation of or interference with adopted emergency evacuation and response plans would be less than significant. No mitigation or further study is required.

h) Expose people or structures to a significant risk of loss, injury or death involving wild land fires, including where wild lands are adjacent to urbanized areas or where residences are intermixed with wild lands?

No Impact. The Project Site is located within a highly urbanized area of the City and does not contain dense vegetation (flammable brush) considered to be wildlands. In addition, the Project Site is not located within or adjacent to a California Department of Forestry and Fire (CalFire) Fire Hazard Severity Zone.[174] Therefore, the risk for wildland fire is low and implementation of the proposed Project would not expose people of

[174] California Department of Forestry and Fire (CalFire). 2011. Very High Fire Hazard Severity Zones: Los Angeles.

structures to a significant risk involving wildland fires, and no impact would occur. No mitigation or further study is required.

4.9 HYDROLOGY AND WATER QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. HYDROLOGY AND WATER QUALITY. Would the Project result in:				
a. Violate any water quality standards or waste discharge requirements?	☐	☐	☒	☐
b. Substantially deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned land uses for which permits have been granted)?	☐	☐	☒	☐
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation onsite or offsite?	☐	☐	☒	☐
d. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in an manner which would result in flooding on- or off site?	☐	☐	☒	☐
e. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☐	☒	☐
f. Otherwise substantially degrade water quality?	☐	☐	☒	☐
g. Place housing within a 100-year flood plain as mapped on federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	☐	☐	☐	☒
h. Place within a 100-year flood plain structures which would impede or redirect flood flows?	☐	☐	☐	☒
i. Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	☐	☐	☐	☒
j. Inundation by seiche, tsunami, or mudflow?	☐	☐	☐	☒

Discussion

The Program EIR includes SCs for minimizing impacts related to hydrology and water quality of the existing environment in areas where future projects would be implemented under the SUP. The Program EIR evaluated the potential for implementation of SUP-related projects to result in impacts related to hydrology and water quality and determined that projects implemented under the SUP are anticipated to have less-than-significant impacts with regard to hydrology and water quality within the LAUSD service area. Applicable SCs related to hydrology and water quality impacts associated with the proposed Project are provided in *Table 4.9-1*.

TABLE 4.9-1
HYDROLOGY AND WATER QUALITY STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-HWQ-1	**Stormwater Technical Manual** This manual establishes design requirements and provides guidance for the cost-effective improvement of water quality in new and significantly redeveloped LAUSD school sites. These guidelines are intended to improve water quality and mitigate potential impacts to the Maximum Extent Practicable (MEP). While these guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) requirements. The guidelines address the mandated post-construction element of the NPDES program requirements.
SC-HWQ-2	**Compliance Checklist for Storm Water Requirements at Construction Sites.** This checklist has requirements for compliance with the General Construction Activity Permit and is used by OEHS to evaluate permit compliance. Requirements listed include a SWPPP; BMPs for minimizing storm water pollution to be specified in a SWPPP; and monitoring storm water discharges to ensure that sedimentation of downstream waters remains within regulatory limits.

Impact Analysis

Would the Project:

a) Violate any water quality standards or waste discharge requirements?

Less Than Significant Impact. The Project Site is located within a dense urban area of the City of Los Angeles, and is currently connected to the City's network of stormwater drainage facilities which ultimately convey surface water runoff to the Pacific Ocean. Construction of the proposed Project would include site grading. Sediment associated with earthmoving activities and exposed soil is the most common pollutant associated with construction sites. Other pollutants associated with construction include debris/trash and other materials generated during construction activities; hydrocarbons from leaks or spills of fuels, oils, and other fluids associated with construction equipment; and paints, concrete slurries, asphalt materials, and other hazardous materials. Storm water and non-storm water runoff could potentially carry these pollutants offsite and into the City's drainage system. However, all earthwork activities would be completed in accordance with ~~LAUSD~~ SCs and applicable regulations pertaining to stormwater runoff. The Program EIR requires all new SUP construction projects to comply with regulatory requirements if they would disturb greater than 1 acre, as would occur for the proposed Project.

LAUSD would implement SC-HWQ-1 and SC-HWQ-2, which requires compliance with LAUSD's Stormwater Technical Manual and the District's General Construction Activity Permit. All new construction Projects would be required to prepare and implement a sediment and erosion control plan that follows the BMPs outlined by the SWRCB to comply with a NPDES Construction General Permit (NPDES Permit), including development of a Storm Water Pollution Prevention Plan (SWPPP), as a required by the Los Angeles Regional Water Quality Control Board (RWQCB).[175] The SWPPP would identify site-specific BMPs to control erosion, sediment, and other potential construction-related pollutants, including, but not limited to, the following:

- Proper storage, use, and disposal of construction materials;
- Removal of sediment from surface runoff before it leaves the Project Site by silt fences or other similar devices around the site perimeter;
- Protection of all storm drain inlets on site or downstream of the Project Site to eliminate entry of sediment;
- Prevention of tracking soil offsite through use of a gravel strip or wash facilities at exits from the Project Site;
- Protection or stabilization of stockpiled soils.

LAUSD developed a program-wide SWPPP in 2005, with updates completed in 2007 and 2009.[176] LAUSD's construction contracting protocol for new and existing sites that would undergo land disturbance provides BMPs designed to prevent or minimize stormwater pollution, including submission of a SWPPP.

Adherence to LAUSD standards and applicable regulations, compliance with the NPDES Permit, and preparation and implementation of a SWPPP prior to construction, would identify site-specific BMPs for erosion control, sediment, and other potential construction-related pollutants. The NPDES Permit and SWPPP would maintain water quality in accordance with the RWQCB standards, such that construction of the proposed Project would not violate any water quality standards or waste discharge requirements. Therefore, construction-related impacts to water quality would be less than significant. No mitigation or further study is required.

175 LAUSD, 2009. Stormwater Technical Manual, Prepared for Los Angeles Unified School District by Geosyntec Consultants. October 2009.

176 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

b) Substantially deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned land uses for which permits have been granted)?

Less Than Significant Impact. The Los Angeles Department of Water and Power (LADWP) supplies water to the Project Site. According to its Urban Water Management Plan (UWMP), LADWP's three main sources of water are the Los Angeles Aqueducts, local groundwater, and imported supplemental water purchased from the Metropolitan Water District of Southern California. In 2009/2010, the City relied on approximately 75,000 acre-feet of groundwater, meeting approximately 14 percent of the City's total annual demand.[177]

Although overall square footage of buildings would decrease, it is assumed that water demand would remain the same as the existing conditions due to no increase in capacity, landscaping and associated irrigation systems. Therefore, there would be no net deficit in aquifer volume or lowering of the groundwater table near the Project Site as the proposed Project would result in water demands that are similar to existing conditions. SUP-related projects would not result any substantial changes in the quantity of groundwater supplies. Furthermore, no groundwater extraction activities would occur under the proposed Project, nor would any wells be constructed. The groundwater levels are deep (greater than 50 feet below ground surface); therefore, dewatering is not anticipated. The proposed Project would replace the existing impervious surfaces with other impervious surfaces. As such, compliance with applicable laws, regulations, and LAUSD standards during Project construction and operation would ensure impacts associated with groundwater supply and groundwater recharge would be less than significant. No mitigation or further study is required.

c) Substantially alter the existing drainage pattern of area, including through the alteration of the course of a stream or river, in a manner, which would result in substantial erosion or siltation on or offsite?

Less Than Significant Impact. Construction of the proposed Project would temporarily alter the localized drainage pattern at the Project Site due to ground-disturbing activities, such as grading and excavation, construction of new building foundations, and trenching for utility improvements. Such alterations in the drainage pattern may temporarily result in erosion or siltation and/or increase the rate or amount of surface runoff if substantial drainage is rerouted. However, compliance with the NPDES Permit, which requires the development of a SWPPP, would minimize the potential for erosion or siltation and flooding through the implementation of BMPs. Therefore, impacts associated with substantial erosion or siltation and temporary drainage alterations during construction would be less than significant.

The Project Site is located within a dense urban area within the City of Los Angeles with an existing network of stormwater drainage facilities, which ultimately convey surface water to the Pacific Ocean. Currently, the Project Site is developed with buildings, landscaping, and paved parking areas. Implementation of the

177 LADWP. 2015. Urban Water Management Plan. April 27, 2016.

proposed Project would not significantly change surface drainage at the Project Site, as similar uses would be constructed compared to existing uses.

The proposed Project would employ CHPS criteria which are intended to avoid water quality impacts and velocity increases where possible. Implementation of the CHPS criteria and LAUSD standard BMPs, requiring the collection of surface runoff in stormwater collection system designed for 25-year peak runoff rates, would reduce siltation or erosion impacts to a less than significant level. SUP projects, including the proposed Project, would employ features outlined in the LAUSD Technical Manual to reduce the impacts of erosion and siltation, including incorporation of CHPS standards and BMPs relating to the use of native and drought-tolerant landscaping.[178]

Compliance with applicable laws, regulations, and SC-HWQ-2 during Project construction and operation would ensure that impacts associated with drainage and erosion are less than significant. No mitigation or further study is required.

d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner, which would result in flooding onsite or offsite?

Less Than Significant Impact. As stated previously in Response 4.9 (c), the proposed Project would not substantially alter the local drainage pattern. The proposed Project would use minimal water during construction and operation and would thereby not generate a large amount of runoff as a result of site activities. No stream or river traverses the Project Site. The previously discussed BMPs (including: proper storage, use, and disposal of construction materials; removal of sediment from surface runoff before it leaves the Project Site by silt fences; protection of all storm drain inlets onsite or downstream; protection or stabilization of stockpiled soils) would control drainage onsite, thereby reducing its potential to cause flooding from occurring on or offsite. Therefore, flooding impacts resulting from drainage pattern alteration would be less than significant. No mitigation or further study is required.

e) Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less Than Significant Impact. Construction of the proposed Project would temporarily alter flow at the Project Site due to ground-disturbing activities, such as grading and excavation, construction of new building foundations, and trenching for new utilities. However, compliance with the NPDES Permit, which requires development of a SWPPP, would minimize the potential for onsite and offsite flooding as the result of changes to the existing drainage patterns through implementation of BMPs. Therefore, impacts associated with onsite and offsite flooding due to temporary drainage alterations during construction would be less than significant.

[178] LAUSD, 2009. Stormwater Technical Manual, Prepared for Los Angeles Unified School District by Geosyntec Consultants. October

Implementation of the proposed Project would not substantially change pervious and impervious surface area ratios; as similar uses would be constructed compared to existing uses. In addition, in accordance with NPDES requirements, the proposed Project would be required to control the rate of surface runoff, and ensure that runoff would not exceed the capacity of the existing or planned stormwater drainage system on site. Thus, no long-term runoff would be created that would exceed the capacity of the existing and planned stormwater drainage system and impacts would be less than significant. No mitigation or further study is required.

f) Otherwise substantially degrade water quality?

Less Than Significant Impact. Refer to Response 4.9 (a). Construction of the proposed Project would include site grading and excavation. Sediment associated with earthmoving activities and exposed soil is the most common pollutant associated with construction sites. Other pollutants associated with construction include debris/trash and other materials generated during construction activities. Stormwater and non-stormwater runoff could potentially carry these pollutants offsite and into the City's drainage system. However, all earthwork activities would be completed in accordance with LAUSD standards and applicable regulations pertaining to stormwater runoff. SC-HWQ-1, which requires compliance with LAUSD's Stormwater Technical Manual and the District's General Construction Activity Permit. All new construction Projects would be required to prepare and implement a sediment and erosion control plan that follow the BMPs outlined by the SWRCB so as to comply with the NPDES Permit, including development of a SWPPP.[179] Adherence to LAUSD standards and applicable regulations, compliance with the NPDES Permit, and preparation and implementation of a SWPPP prior to construction, would identify site-specific BMPs for erosion control, sediment, and other potential construction-related pollutants. The NPDES Permit and SWPPP would maintain water quality in accordance with the RWQCB standards, such that construction of the proposed Project would not violate any water quality standards. Construction impacts with regards to water quality would be less than significant. No mitigation or further study is required.

g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

No Impact. No housing would be developed as part of the proposed Project. According to the Project-specific geotechnical evaluation, the Project Site is not located within a Federal Emergency Management Agency (FEMA) mapped flood hazard zone.[180] The Project Site is located within Zone X, which is defined by FEMA as areas determined to be outside of the 0.2 percent annual chance flood plain. Therefore, the proposed Project would not result in placing structures in a 100-year flood hazard area and no impacts to housing from flooding would occur. No mitigation or further study is required.

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179 LAUSD, 2009. Stormwater Technical Manual, Prepared for Los Angeles Unified School District by Geosyntec Consultants. October

180 FEMA, Flood Insurance Rate Map (FIRM) Los Angeles County, CA Panel 1620 of 2350, https://msc.fema.gov/portal/search?AddressQuery=1319%20e%2041st%20street%2C%20los%20angeles#searchresultsanchor, 2008, accessed August 16, 2016.

h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?

No Impact. As discussed in Response 4.9 (g), the proposed Project is not located within a FEMA mapped flood hazard zone. The Project Site is located within Zone X, which is defined by FEMA as areas determined to be outside of the 0.2 percent annual chance flood plain. Therefore, the proposed Project would not result in placing structures within 100-year flood hazard areas that would impede or redirect flood flows. Thus, no impacts to structures from flooding would occur from the Project. No mitigation or further study is required.

i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

No Impact. According to the Project-specific geotechnical evaluation, the Project Site is not within a dam inundation zone.[181] Therefore, there would be no impacts related to flooding including failure of a levee or dam. No mitigation or further study is required.

j) Inundation by seiche, tsunami, or mudflow?

No Impact. Seiches are seismically or wind induced tidal phenomena that occur in enclosed bodies of water. The Project Site is not located adjacent to or near a standing body of water. The nearest body of water is the Silver Lake Reservoir, located approximately 5 miles northwest of the Project Site. Due to its distance from the reservoir, the proposed Project would not expose people or structures to a significant risk of loss, injury, or death involving inundation by seiche. Therefore, no impact from inundation by seiche would occur.

A tsunami is a sea wave of local or distant origin that results from large-scale seafloor displacements associated with earthquakes, major submarine landslides, or exploding volcanic islands. Tsunamis generally affect coastal communities and low-lying river valleys. According to the Project-specific geotechnical evaluation, the Project Site is located 12 miles east of the Pacific Ocean and is not within a tsunami inundation zone.[182] No impact from tsunamis would occur.

Mudflows occur on steep slopes where vegetation is not sufficient to prevent rapid erosion, or on gentle slopes if other conditions are met such as large sudden rainfall events. Mudflows contain large amounts of water, silt, sand, boulders, organic material, and other debris. The Project Site and immediate surrounding area are relatively flat and do not contain major hills or steep slopes. Therefore, the Project Site is not at risk for mudflows. No impact from mudflows would occur. No mitigation or further study is required.

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[181] Gorian & Associates. 2016, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California.

[182] Gorian & Associates. 2016, Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California.

4.10 LAND USE AND PLANNING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
X. LAND USE AND PLANNING. Would the Project:				
a. Physically divide an established community?	☐	☐	☐	☒
b. Conflict with applicable land use plan, policy or regulation of an agency with jurisdiction over the Project (including but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒
c. Conflict with any applicable habitat conservation plan or natural community conservation plan?	☐	☐	☐	☒

Discussion

Projects implemented under the SUP are anticipated to have less-than-significant impacts to land use and planning within the LAUSD service area. The Project-specific analysis provided below determined that implementation of the proposed Project would have no impacts to land use and planning in the Project area.

Impact Analysis

Would the Project:

a) Physically divide an established community?

No Impact. The proposed Project does not include any action that could divide an established community. The physical division of an established community generally refers to the construction of a feature such as an interstate highway or railroad tracks, or removal of a means of access, such as a local road or bridge that would impact mobility within an existing community or between a community and outlying area. The proposed Project lies entirely on an existing campus within an established LAUSD school boundary. The Project area is zoned as public facilities (PF)[183] and would not result in any zoning changes or changes in usage. Because the proposed Project would be constructed on an established school campus, no impact related to the physical division of an established community would occur. No mitigation or further study is required.

[183] City of Los Angeles, 2017. Zone Information and Map Access System (ZIMAS). Available at: http://zimas.lacity.org/, accessed November 29, 2017.

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact. The student and faculty population at the school would not increase as a result of the Project. The land use would stay the same and thus be consistent with the AQMP. Additionally, the proposed Project would not significantly increase vehicle trips to the Project Site. As a result, the proposed Project would not result in long-term operational population or employment growth that exceeds planned growth projections in the SCAG Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). The proposed Project's consistency with the SCAQMD's air quality management plan is discussed in detail in the Air Quality section 4.3 of this IS/MND.

Further, the California legislature granted school districts the power to exempt school property from local zoning requirements, provided the school district complies with the terms of Government Code Section 53094. As lead agency for the proposed Project, LAUSD would comply with Government Code Section 53094 to render the local City of Los Angeles Zoning Ordinance inapplicable to the proposed Project. Following a two-thirds vote of the Board of Education, LAUSD can exempt a school site from such local zoning requirements. Within 10 days of the action, the Board must provide the City of Los Angeles with notice of this action.

Even if it were not exempt, the City of Los Angeles General Plan designation for the Project Site is "Public Facilities". The City of Los Angeles Municipal Code – Zoning Plan has designated the proposed Project as PF: Public Facilities, or a zone for the use and development of publicly owned land, including public elementary and secondary schools. As such, the proposed Project would be consistent with all applicable land use plans.[184] No impacts would occur as a result of the Project. No mitigation or further study is required.

c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

No Impact. No habitat reserves established under the Natural Communities Conservation Plan/Habitat Conservation Plan (NCCP/HCP) are located within the District, and no other habitat conservation plans are in the District.[185] Therefore, the Project Site would not be located in or conflict with a HCP/NCCP and no impacts would occur. No mitigation or further study is required.

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184 American Legal Publishing Corporation. City of Los Angeles Zoning Code, Section 12.04.09, PF Public Facilities Zone. Available at: http://library.amlegal.com/nxt/gateway.dll?f=templates&fn=default.htm&vid=amlegal:la_all_mc, accessed August 11, 2017.

185 CDFW, 2017. California Regional Conservation Plans. Available at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=68626&inline, accessed August 16, 2017.

4.11 MINERAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. MINERAL RESOURCES. Would the Project:				
a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the State?	☐	☐	☐	☒
b. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

Discussion

Projects implemented under the SUP are anticipated to have less than significant impacts to mineral resources within the LAUSD service area. The Project-specific analysis provided below determined that implementation of the proposed Project would have no impacts to mineral resources.

Impact Analysis

Would the Project:

a) & b) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the State? Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact. There are no known mineral resources within the Project Site, and no known operational mineral resource recovery sites at the Project Site or in the vicinity.[186] The proposed Project is located on an existing school campus. Further, the surrounding area has been developed with residential and public uses. The proposed Project is zoned as PF and the nearest mineral resources recovery site is the Tujunga Alluvial Fan (Tujunga Wash) located approximately 18.5 miles northwest of the campus.[187] The proposed Project would not result in any impacts to mineral resources since it would not result in the loss of identified mineral resources that would be of value to the region or the State. Therefore, no impacts related to mineral resources would occur from the Project. No mitigation or further study is required.

186 California Geologic Survey, 2010.Update of Mineral Land Classification of Portland Cement Concrete Aggregate in San Gabriel Valley Production-Consumption Region, Los Angeles County, California Available at: ftp://ftp.consrv.ca.gov/pub/dmg/pubs/ofr/OFR_94-14/OFR_94-14_Text.pdf , accessed August 17, 2017.

187 City of Los Angeles, 2002. General Plan, Conservation Element. Available at: https://planning.lacity.org/cwd/gnlpln/consvelt.pdf, accessed August 11, 2017.

4.12 NOISE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. NOISE. Would the Project result in:				
a. Exposure of persons to or generation of noise in level in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b. Exposure of people to or generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c. A substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project?	☐	☐	☒	☐
d. A substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project?	☐	☐	☒	☐
e. For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?	☐	☐	☐	☒
f. For a Project within the vicinity of a private airstrip, would the Project expose people residing or working in the Project area to excessive noise levels?	☐	☐	☐	☒

Discussion

The noise and vibration analysis is based upon the noise technical study prepared for the proposed Project (Appendix G).

The Program EIR evaluated the potential for implementation of the SUP-related site-specific projects to result in adverse noise impacts to students and faculty at the upgraded school sites and to the surrounding areas.

The Program EIR included SCs for minimizing noise impacts on the existing environment in areas where future projects would be implemented under the SUP. Applicable SCs related to noise impacts associated with the proposed Project are provided in *Table 4.12-1*.

4. Environmental Checklist and Analysis

TABLE 4.12-1
NOISE STANDARD CONDITIONS OF APPROVAL

Reference Number	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
SC-N-1	Exterior Campus Noise	Exterior noise levels are or would be greater than 70 dBA L_{10} or 67 dBA L_{eq}	During Project design	LAUSD shall include features such as sound walls, building configuration, and other design features in order to attenuate exterior noise levels on a school campus to less than 70 dBA L_{10} or 67 dBA L_{eq}.
SC-N-2	Interior Classroom Noise	Interior classroom noise levels would be greater than 55 dBA L_{10} or 45 dBA L_{eq}	During Project design	LAUSD shall analyze the acoustical environment of the site (such as traffic) and the characteristics of planned building components (such as heating, ventilation, and air conditioning [HVAC]), and design to achieve interior classroom noise levels of less than 55 dBA L_{10} or 45 dBA L_{eq} with maximum (unoccupied) reverberation times of 0.6 seconds. Noise reduction methods shall include, but are not limited to, sound walls, building and/or classroom insulation, HVAC modifications, double-paned windows, and other design features in order to achieve the noise standards. • The District should acknowledge the ANSI (American National Standards Institute) S12 standard as a District goal that may presently not be achievable in all cases. • Where economically feasible, new school design should achieve classroom acoustical quality consistent with the ANSI standard and in no event exceed the current CHPS (California High Performance Schools) standard of 45 dBA. • Where economically feasible, new HVAC (Heating, Ventilating, and Air Conditioning) installations should be designed to achieve the lowest possible noise level consistent with the ANSI standard. In no event should these installations exceed the current CHPS standard of 45 dBA. • To promote the development of lower noise emitting HVAC units, the District's purchase of new units should give preference to manufacturers producing the lowest noise level at the lowest cost. • Existing HVAC units operating in excess of 50 dBA should be modified.
SC-N-3	Traffic Noise	Project-related traffic noise level exceeds local noise standards, policies, or ordinances	Prior to Project approval	LAUSD shall require an acoustical analysis to identify feasible measures to reduce traffic noise increases to 3 dBA community noise equivalent level (CNEL) or less at the noise-sensitive land use. LAUSD shall implement recommended measures to reduce noise.
SC-N-4	Operational Noise	Operational noise levels exceeds local noise standards, policies, or ordinances at noise-sensitive land uses	During Project design and construction	LAUSD shall incorporate long-term permanent noise attenuation measures between playgrounds, stadiums, and other noise-generating facilities and noise-sensitive land uses, to reduce noise levels to meet jurisdictional standards or an increase of 3 dB or less over ambient. Operational noise attenuation measures include, but are not limited to:

Reference Number	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
				• buffer zones • berms • sound barriers: – buildings – masonry walls – enclosed bleacher foot wells – other site-specific Project design features.
SC-N-5	Construction Noise and Vibration (Annoyance)	Construction on an existing school campus	Prior to construction	LAUSD Facilities Division or its construction contractor shall consult and coordinate with the school principal or site administrator, and other nearby noise sensitive land uses prior to construction to schedule high noise or vibration producing activities to minimize disruption. Coordination between the school, nearby land uses and the construction contractor shall continue on an as-needed basis throughout the construction phase of the Project to reduce school and other noise sensitive land use disruptions.
SC-N-6	Vibration (Structural Damage)	Rock blasting or demolition activities	During construction	The LAUSD shall require the construction contractor to minimize blasting for all construction and demolition activities, where feasible. If demolition is necessary adjacent to residential uses or fragile structures, the LAUSD shall require the construction contractor to avoid using impact tools. Alternatives that shall be considered include mechanical methods using hydraulic crushers or deconstruction techniques.
SC-N-7	Vibration (Structural Damage)	Pile driving or heavy vibration activities	During construction (Construction)	For Projects where pile driving activities are required within 150 feet of a structure, a detailed vibration assessment shall be provided by an acoustical engineer to analyze potential impacts related to vibration to nearby structures and to determine feasible mitigation measures to eliminate potential risk of architectural damage.
SC-N-8	Vibration (Structural Damage)	Vibration intensive activities are planned within 25 feet of a historic building or structure	Prior to and during demolition and construction (Construction)	LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers. • Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building. • The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building. • The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building. • During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any

4. Environmental Checklist and Analysis

Reference Number	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
				ground impacting operation associated with demolition and construction of a new building. During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue "stop-work" orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented.
SC-N-9	Construction Noise	Exterior construction and the use of large, heavy or noisy construction equipment	During construction (Construction)	LAUSD shall prepare a noise assessment. If site-specific review of a school construction Project identifies potentially significant adverse construction noise impacts, then LAUSD shall implement all feasible measures to reduce below applicable noise ordinances. Exterior construction noise levels exceed local noise standards, policies, or ordinances at noise-sensitive receptors. LAUSD shall mandate that construction bid contracts include the measures identified in the noise assessment. Specific noise reduction measures include, but are not limited to, the following: <u>Source Controls</u> • Time Constraints – prohibiting work during sensitive nighttime hours • Scheduling – performing noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM) • Equipment Restrictions – restricting the type of equipment used • Noise Restrictions – specifying stringent noise limits • Substitute Methods – using quieter methods and/or equipment • Exhaust Mufflers – ensuring equipment have quality mufflers installed • Lubrication & Maintenance – well maintained equipment is quieter • Reduced Power Operation – use only necessary size and power • Limit Equipment OnSite – only have necessary equipment onsite • Noise Compliance Monitoring – technician on site to ensure compliance • Quieter Backup Alarms – manually-adjustable or ambient sensitive types <u>Path Controls</u> • Noise Barriers – semi-permanent or portable wooden or concrete barriers • Noise Curtains – flexible intervening curtain systems hung from supports • Enclosures – encasing localized and stationary noise sources • Increased Distance – perform noisy activities farther away from receptors, including operation of portable equipment, storage and maintenance of equipment

Reference Number	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
				Receptor Controls • Window Treatments – reinforcing the building's noise reduction ability • Community Participation – open dialog to involve affected residents • Noise Complaint Process – ability to log and respond to noise complaints. Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the Project area. The notice shall State specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the contractor and the District. In the event of noise complaints the LAUSD shall monitor noise from the construction activity to ensure that construction noise does not exceed limits specified in the noise ordinance. • Temporary Relocation – in extreme otherwise unmitigatable cases. Temporarily move residents or students to facilities away from the construction activity.

SOURCE: LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

Noise impacts of projects implemented under the Program EIR are anticipated to be less than significant with the incorporation of SCs. The project-specific analysis provided below determined that noise impacts related to implementation of the proposed Project would also be less than significant with incorporation of SCs N-1 through N-9.

Sensitive Receptors

Some land uses are considered more sensitive to ambient noise levels than others, due to the amount of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities typically involved. According to the General Plan, residential areas are to be the most sensitive type of land use to noise and industrial/commercial areas are considered to be the least sensitive. Existing noise sensitive uses in the immediate vicinity of the Project Site include:

- School classrooms
- North: a mix of single- and multi-family residences between the Project Site and 33rd Street.
- East: single-family residences are located along Compton Avenue.
- South: Morning Star Baptist Church and multi-family residences located along 41st Street.
- West: single-family residences are located along Hooper Avenue.

Ambient Noise Levels

The predominant existing noise source surrounding the Project Site is vehicular traffic noise from local roadways. Ambient noise was not measured. Instead, the population-based methodology described in the Federal Transit Administration's (FTA) Transit Noise and Vibration Assessment document was used. The FTA's document indicates that the ambient noise level for the population per square mile between 3,000 and 10,000 would be 55 dBA. The population per square mile for the City of Los Angeles is 8,092.3 based on the 2010 Census data. Therefore, for the assessment, the ambient noise level in the vicinity of the Project Site is determined to be 55 dBA.

Impact Analysis

Would the Project:

a) Result in exposure of persons to or generation of noise in level in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less Than Significant Impact. A significant impact may occur if the proposed Project would generate noise that exceeds the noise level standards set forth in the respective General Plan Noise Elements and Noise Ordinances of the City of Los Angeles. Potential Project-related noise impacts were assessed for: 1) Project construction on the adjacent sensitive receivers; 2) offsite noise impact due to the Project operation; and 3) onsite noise impact to the Project Site.

Construction

Construction of the proposed Project would occur in multiple phases within the campus boundary and is expected to last approximately 5.5 years. Construction activities would be implemented in five phases, with limited to no overlap between phases. Soil Removal would take place throughout the campus. Phase 1 would take place at the area between the Homemaking Building and the Industrial Arts Building. Phase 2 would take place at the area east of the playing field. Phase 3 would take place at the Administration and Academic Building, Mechanical Arts building, Gymnasium Building, and Homemaking Building. Phase 4 would take place at the Assembly Hall Building, Cafeteria Building, and Science and Classroom Buildings. Phase 5 would take place at the clinic in the northwest corner and remove portable classrooms that were placed east of the playing field with green spaces and tennis courts.

Construction activities occurring during each of these phases would require the use of heavy equipment (e.g., excavators, backhoes, loaders, tractors, etc.) along with the use of smaller power tools, generators, and other sources of noise. During each construction phase there would be a different mix of equipment operating and noise levels would vary based on the amount of equipment in operation and the location of each activity. As such, construction activity noise levels during each phase would fluctuate depending on the particular type, number, and duration of use of the various pieces of construction equipment.

Table 4.12-5, *Construction Equipment Usage and Noise Levels*, lists the type, maximum noise level, quantity, usage factor, and estimated noise levels of construction equipment to be used for each phase of construction. It should be noted that maximum noise levels associated with construction equipment would only be generated when the equipment is operated at full power. Typically, the operating cycle for a piece of construction equipment would involve one or two minutes of full power operation followed by three or four minutes at lower power settings. As such, the maximum noise levels shown in Table 4.12-5 would occur occasionally throughout the construction day.

TABLE 4.12-5
CONSTRUCTION EQUIPMENT USAGE AND NOISE LEVELS

Phase and Equipment	Maximum Noise Level at 50 feet (dBA) [b]	Equipment Quantity (per Phase)	Usage Factor [b]
Soil Removal			
Rubber Tired Loader	79	2	40%
Tractor/Loader/Backhoes	80	2	40%
Phases 1-5 (equipment per each phase)			
Air Compressor (Phases 4-5)	78	1	50%
Concrete/Industrial Saw	90	1	20%
Crushing/Processing Equipment	85	1	50%
Rubber Tired Dozers	85	2	40%
Tractors/Loaders/Backhoes	78	2	40%
Grader	85	1	40%
Forklift (Phases 1-4)	80	1	40%
Forklifts (Phase 5)	80	2	40%
Generator Set (Phases 1-4)	82	1	50%
Other Construction Equipment	85	1	50%
Paver (Phases 3-5)	85	1	50%
Roller (Phases 3-5)	85	1	20%
Crane (Phases 1-4)	81	1	40%
Welder (Phases 1-4)	74	1	40%

[a] Maximum Noise Levels and Usage Factor are derived from Federal Highway Administration's (FHWA) Roadway Construction Noise Model User's Guide. Noise levels for those equipment not included in this User's Guide are estimated based on similar equipment.

SOURCE: LAUSD 2016, ESA 2017

As discussed previously, the Project Site is bounded by 33rd Street to the north, Hooper Avenue to the west, East 41st Street to the south, and Compton Avenue to the east. Noise-sensitive receptors to the north, east, and west of the Project Site consist of residential uses. The closest receptors to the south of the Project Site are Morning Star Baptist Church and residential uses. To present a conservative impact analysis, the estimated noise levels were calculated for a scenario in which the loudest equipment were assumed to be located at the construction area boundary closest to sensitive receptors. The remaining construction equipment were assumed to be located at the approximate mid-point within the construction area boundary and at the furthest point within the construction area boundary relative to the sensitive receptor. Distances between the closest

construction site and the receptors with estimated noise levels per construction phase are presented in *Table 4.12-6*, *Estimated Construction Noise Levels at Sensitive Receptors*. These noise levels do not account for noise shielding effects such as the use of construction noise barriers. The maximum construction noise impacts are associated with primarily with demolition activities.

TABLE 4.12-6
ESTIMATED CONSTRUCTION NOISE LEVELS AT SENSITIVE RECEPTORS

Phase	Receptor Direction	Estimated Closest Distance (feet)	Estimated Maximum Noise Levels (dBA L_{eq})
Soil Removal	Classroom	25	84
	North	150	70
	West	370	62
	South	430	61
	East	70	75
Phase 1	Classroom	25	87
	North	30	86
	West	600	66
	South	650	65
	East	75	80
Phase 2	Classroom	115	79
	North	50	81
	West	485	67
	South	750	63
	East	100	80
Phase 3	Classroom	160	76
	North	360	70
	West	420	68
	South	480	67
	East	130	78
Phase 4	Classroom	25	87
	North	500	67
	West	50	81
	South	200	74
	East	480	67
Phase 5	Classroom	50	86
	North	25	80
	West	50	81
	South	700	64
	East	50	81

NOTE: Distances shown represent the closest distance to the nearest receptor. Noise modeling accounted for equipment placed at the approximated closest, midpoint, and furthest points of the phase area.

SOURCE: ESA 2017

Noise impacts are considered potentially significant when construction noise levels exceed the ambient noise levels by 5 dBA or more. As it is described under subheading Ambient Noise Levels, above, the ambient noise level is estimated to be 55 dBA. Therefore, the exterior noise significance threshold for offsite residential uses would be 60 dBA for this Project. The exterior noise significance threshold for school sites would be 67 dBA as established in the LAUSD SUP Program EIR per Education Code Section 17215. The estimated maximum construction noise levels presented in Table 4.12-6 would potentially exceed the 60 dBA exterior threshold for offsite residential uses and the 67 dBA exterior threshold for school sites. Therefore, the impact would be considered potentially significant. The proposed Project requires compliance with the Program EIR SCs, as shown in Table 4.12-1. SC-N-1 requires the use of noise-reduction features such as sound walls. SC-N-9 requires site-specific noise control measures, which can include time and scheduling constraints for noise-generating activities, equipment restrictions, substituting quieter construction methods and/or equipment, ensuring equipment is well maintained, reducing the power and size of the equipment, and other features as needed in order to reduce impacts to less than significant. To reduce the construction noise levels to less-than-significant levels, the noise level would be required to be reduced to below 60 dBA (ambient + 5 dBA) for offsite residential uses and 67 dBA for school sites. As shown in Table 4.12-6, since certain construction activities would occur at relatively close distances to offsite residential uses and onsite school uses, the construction noise level could be as high as 87 dBA during maximum construction noise-generating activities (i.e., such as demolition activities). The addition of 20-foot high noise barrier with acoustical barriers or blankets can reduce noise levels by up to 20 dBA. Per SC-N-9, the Project would be required to ensure that contractor(s) equip all construction equipment, fixed or mobile, with properly operating and maintained noise mufflers, consistent with manufacturers' standards. For example, absorptive noise mufflers are commercially available feasible technology that can achieve state-of-the-art noise reduction for heavy-duty construction equipment.[188] The City of Los Angeles recognizes that the use of mufflers can achieve in practice noise reductions of 1 to 3 dBA.[189] In addition, per SC-N-9, the Project would limit the use of noise-generating construction equipment in close proximity to occupied onsite classrooms and offsite residences. During demolition activities, which generates the highest noise levels, noisy equipment such as concrete/industrial saws would not be used within approximately 50 feet of occupied onsite classrooms or within approximately 100 feet offsite residences. The use of other heavy-duty noise-equipment such as grading equipment would be minimized within 50 feet of occupied onsite classrooms and offsite residences and used only when necessary or substituted with smaller grader equipment models that generate less noise. Other less mobile equipment such as generators and cranes would be situated as far from occupied onsite classrooms and offsite residences as possible (at least 50 feet away). Implementation of these ~~Standard Conditions of Approval~~ SCs (other than noise barriers) would achieve at least a 12 dBA additional reduction in noise levels. Furthermore, pursuant to SC-N-9, the contractor(s) would perform noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM) and would conduct noise compliance monitoring to ensure compliance with ~~Standard Conditions of Approval~~ SCs. After implementation of the SCs identified above, potential impacts

188 United Muffler Corp, https://www.unitedmuffler.com/; Auto-jet Muffler Corp, http://mandrelbending-tubefabrication.com/index.php; AP Exhaust Technologies, http://www.apexhaust.com/.

189 City of Los Angeles, L.A. CEQA Thresholds Guide, Your Resource for Preparing CEQA Analyses in Los Angeles, Exhibit I.1-2, (2006).

with regard to construction noise would be reduced to less than less than significant. No mitigation or further study is required.

Offsite Construction Traffic Noise

Construction related vehicular traffic, including hauling activities, would generate higher noise levels to the receptors along the access routes (i.e., S. Hooper Ave. and E. 41st St.). Per the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM), Version 2.5, the noise level of one heavy truck passing by at 35 miles per hour (mph) would be 45 dBA at 50 feet. The maximum number of haul trucks accessing the Project Site each day for the Soil Removal Phase would be 50 trucks. Based on this information, it was assumed that the maximum number of haul trucks entering and exiting the site during a peak hour would be seven. The noise level from five heavy trucks passing by during a peak hour would be 58 dBA at 50 feet, which would not exceed the ambient noise level (55 dBA) plus 5 dBA threshold. Therefore, the offsite construction traffic noise impacts would be less than significant. No mitigation or further study is required.

Operations

The Project would result in potentially significant impacts if there is a permanent increase of over 3 dBA in ambient noise levels within the Project vicinity above existing levels without the Project. To increase the future ambient noise by 3 dBA, in general, it would be necessary to double the number of students, double the school activities over existing conditions, or double the traffic volumes. Project implementation would not provide for an increase in the number of students attending the school, staff required to operate the school, or traffic volumes. In addition, new constructed structures would have stationary noise sources, such as a generator or air conditioning units. Because the Project would comply with SC-N-4, the impact would be less than significant. Additionally, LAUSD considers exterior areas (playgrounds, playfields, lunch shelters) to be conditionally acceptable in a noise environment of 67 dBA Leq, while interior areas should achieve a noise environment of 45 dBA Leq.

The future ambient noise at the proposed Project Site would be dominated by roadway traffic on 33rd Street, Hooper Avenue, 41st Street, and Compton Avenue. The Project includes development of exterior areas, such as baseball/softball field, tennis courts and basketball courts, and new classroom buildings, which could result in a significant impact. However, the Project requires compliance with SC-N-1 and SC-N-2, and the impact would be considered less than significant. No mitigation or further study is required.

b) Exposure of people to generation or excessive groundborne vibration or groundborne noise levels?

Less Than Significant Impact. Ground-borne vibration would be generated from the operation of heavy construction equipment at the Project Site, which could potentially affect the existing sensitive land uses surrounding the site, as well as the students on the campus. Upon completion of construction there would be no operational sources of ground-borne vibration.

Construction equipment could be close to the residential structures in the Project vicinity. However, it should be noted that the existing structures on campus would be closer than those residential structures. The construction equipment could be as close as 10 feet from existing structures.

Ground-borne vibration levels resulting from construction activities at the Project Site were estimated using data published by the Federal Transit Administration (FTA) in its Transit Noise and Vibration Impact Assessment (2006) document. The Program EIR has adopted vibration standards that are used to evaluate potential human annoyance and architectural damage impacts related to construction activities.

The various peak particle velocity (PPV) expressed in inches per second (in/sec) and root mean square (RMS) velocity expressed in VdB levels for the general construction equipment that would operate during the construction of the proposed Project are identified in *Table 4.12-4*. Note that it is assumed that impact activities, such as pile driving, would not be used for this proposed Project while school is in session.

TABLE 4.12-4
VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT

Equipment	Approximate PPV (in/sec) at 25 feet	Approximate RMS (VdB) at 25 feet
Large Bulldozer	0.089	87
Loaded Trucks	0.076	86
Jackhammer	0.035	79
Small Bulldozer	0.003	58

SOURCE: FTA, 2006.

Structure Damage

Construction activities associated with the proposed Project would have the potential to impact the existing school buildings and surrounding offsite structures.

For existing school buildings, the construction equipment could be located within 15 feet of structures. However, the proposed Project would require compliance with SC-N- 6 through SC-N-8, which would require that activities that have the potential to result in significant vibration are minimized or avoided through alternative methods of demolition and construction if feasible and necessary. Therefore, impacts would be less than significant with the incorporation of SC-N-6 through SC-N-8.

The offsite structures are considered to be non-engineered timber structure. The vibration impact threshold for the offsite structures would be 0.2 in/sec PPV. The PPV level of a large bulldozer at 25 feet would be 0.089 in/sec PPV. In order to exceed 0.2 in/sec PPV, a large bulldozer would need to be as close as 15 feet from the offsite structures. The closest offsite structure to the Project Site is located 50 feet away. Therefore, there would be no offsite structures within 15 feet of construction and impacts would be less than significant. No mitigation or further study is required.

Human Annoyance

Construction-related vibration could annoy students onsite and residents within the properties surrounding the campus (particularly those to the north of the campus). However, this annoyance would be temporary and would only be associated with certain aspects of the construction. While various stages of construction have the potential to result in varied levels of vibration, the proposed Project would require compliance with SC-N-5. Implementation of SC-N-5 would require LAUSD to coordinate with the school principal or site administrator, and other nearby noise sensitive land uses prior to construction to schedule high noise or vibration producing activities to minimize disruption. Coordination between the school, nearby land uses and the construction contractor shall continue on an as-needed basis throughout the construction phase of the Project to reduce school and other noise sensitive land use disruptions. Therefore, implementation of SC-N-5 would reduce impacts to less than significant. No mitigation or further study is required.

Operation

Once construction activities have been completed, there would be no new sources of vibration at the Project Site. Therefore, no impact would occur and no mitigation or further study is required.

c) A substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project?

Less Than Significant Impact. As described in Response (a), the proposed Project would not result in a 3 dBA increase in noise over existing ambient conditions. This impact would be less than significant. No mitigation or further study is required.

d) A substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project?

Less Than Significant Impact. As described in Response (a), the proposed Project would be expected to result in temporary increases in ambient noise levels during construction. However, implementation of SC-N-1 and SC-N-5 through SC-N-9 would reduce noise levels at receptors and impacts would be less than significant. No mitigation or further study is required.

e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?

No Impact. The proposed Project is not located within an airport land use plan or within 2 miles of a public airport or public use airport. The nearest public airport (LAX) is approximately 9 miles from the Project Site. Therefore, no airport land use plan-related impacts would occur. No mitigation or further study is required.

f) For a Project within the vicinity of a private airstrip, would the Project expose people residing or working in the Project area to excessive noise levels?

No Impact. There is no private airstrip within 10 miles of the Project Site. Therefore, no impact would occur. No mitigation or further study is required.

4.13 PEDESTRIAN SAFETY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. PEDESTRIAN SAFETY. Would the Project:				
a. Substantially increase vehicular and/or pedestrian safety hazards due to a design feature or incompatible uses?	☐	☐	☒	☐
b. Create unsafe routes to schools for students walking from local neighborhoods?	☐	☐	☒	☐
c. Be located on a site that is adjacent to or near a major arterial roadway or freeway that may pose a safety hazard?	☐	☐	☒	☐

Discussion

The following evaluation of pedestrian safety is based on the technical study for the Project entitled "Traffic/Pedestrian Safety Study for the Thomas Jefferson High School Comprehensive Modernization Project" ("Traffic/Pedestrian Safety Study").[190] The Traffic/Pedestrian Safety Study, which is included as Appendix I of this MND, evaluates the proposed Project's potential transportation, traffic circulation, and pedestrian safety impacts for the Project Site and vicinity.

The Program EIR includes SCs for minimizing impacts to pedestrian safety in the existing environment in areas where future Projects would be implemented under the SUP. The applicable SC related to Project-specific pedestrian safety impacts are provided in *Table 4.13-1*.[191]

TABLE 4.13-1
PEDESTRIAN SAFETY STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-T-4	LAUSD shall require its ~~contractors~~Construction Contractors to submit a construction worksite traffic control plan to LAUSD ~~to the local City or County Jurisdiction~~ for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. ~~As required by Caltrans~~The construction Contractor shall implement the ~~,~~ applicable transportation related safety measures shall be implemented during construction.

190 ESA, Thomas Jefferson High School Comprehensive Modernization Traffic and Pedestrian Safety Analysis, November 20, 2017

191 Pedestrian Safety Standard Conditions of Approval SC-PED-1 through SC-PED-4 would not apply to the pedestrian safety analysis for the proposed Project because the Trigger for Compliance is if the Project would increase student capacity by more than 25% or 10 classrooms.

Projects implemented under the Program EIR are anticipated to have less-than-significant impacts to pedestrian safety within the LAUSD service area. The Project-specific analysis provided below determined that implementation of the proposed Project would also have less-than-significant impacts to pedestrian safety.

Impact Analysis

The Project Site is developed with existing school uses. The campus comprises an entire block and is bounded by Compton Avenue to the east, East 41st Street to the south, South Hooper Avenue to the west, and residences and East 33rd Street to the north. Pedestrian access and circulation is provided on sidewalks on the west side of Compton Avenue, north side of East 41st Street, and east side of South Hooper Avenue. The South Hooper Avenue/East 41st Street intersection is controlled by a traffic signal with school crosswalk pavement markings on all four approaches to the intersection. The Compton Avenue/East 41st Street intersection is controlled by stop signs on all three approaches to the intersection. There are school crosswalk pavement markings on the eastbound (East 41st Street) and southbound (Compton Avenue) approaches to this intersection; there are also "Pedestrian Crossing" warning signs for East 41st Street traffic. There are additional school crosswalk pavement markings at the site surrounding intersections of South Hooper Avenue/East 40th Place (signalized), South Hooper Avenue/East 33rd Street (signalized), and Compton Avenue/East Martin Luther King, Jr. Boulevard (all-way stop control).

The school's main public entrance connects with the northeast corner of East 41st Street/Compton Avenue, while the school's student entrance connects with the northwest corner of East 41st Street/South Hooper Avenue. Student drop-off/pickup currently occurs along the west (school) side of Compton Avenue. The proposed Project would not change the school entrances or drop-off/pickup zone. The Project would increase the number of onsite parking spaces, which would reduce the demand for on-street parking spaces. The number of driveways crossing sidewalks, however, would not change from existing conditions.

Would the Project:

a) Substantially increase vehicular and/or pedestrian safety hazards due to a design feature or incompatible uses?

Less Than Significant Impact. The proposed Project would occur on the existing Jefferson HS campus (with no increase in enrollment); it would not include changes to existing roadways (including sidewalks); and it would be designed to enhance path of travel, accessibility, and other pedestrian travel throughout the campus. The Project design (including the addition of a new on-campus parking lot in front of the new Gymnasium) would employ standard engineering practices, such as standard driveway widths and turning radii and the provision of adequate line of sight to avoid design elements that could result in hazards.[192] In addition, the projects would provide emergency vehicle access for the City of Los Angeles Fire Department (LAFD). Conformance to District policies and local ordinances would ensure that adequate access would be maintained.

[192] LAUSD School Upgrade Program Final Environmental Impact Report, September 2015, at pages 5.13-10 to 5.13-11.

Traffic generated during Project construction would be compatible with the mix of vehicle types (autos and trucks) currently using local roadways. As shown in Table 13-1, LAUSD requires its contractors to submit a construction worksite traffic control plan (including strategies to safely accommodate pedestrian movements) to the Los Angeles Department of Transportation (LADOT) for review prior to construction, as required by SC-T-4. In addition, as required by Caltrans, applicable transportation-related safety measures shall be implemented during construction of the proposed Project. Additionally, LADOT converted the traffic control at the unsignalized intersection of East 41st Street and Compton Avenue from the existing side-street stop control (a stop sign only on the Compton Avenue approach) to all-way stop control (requiring installation of stop signs on the 41st Street approaches) to improve safety for students walking to the campus from local neighborhoods. Therefore, the proposed Project would not substantially increase vehicular and/or pedestrian safety hazards. As such, impacts would be less than significant. No mitigation or further study is required.

b) Create unsafe routes to schools for students walking from local neighborhoods?

Less Than Significant Impact. The proposed Project would be implemented at an existing campus and would not directly or indirectly eliminate sidewalks, crosswalks or traffic control devices at intersections. Per SC-T-4, LAUSD requires its contractors to submit a construction worksite traffic control plan (including strategies to safely accommodate students walking from local neighborhoods) prior to construction. While the proposed Project would not increase potential safety hazards for students, LAUSD further anticipates that conditions surrounding the campus would be improved for students walking to the campus from local neighborhoods (with the LADOT-authorized all-way stop control of East 41st Street and Compton Avenue). Therefore, the proposed Project would not create unsafe routes to school for students walking from local neighborhoods. As such, impacts would be less than significant. No mitigation or further study is required.

c) Be located on a site that is adjacent to or near a major arterial roadway or freeway that may pose a safety hazard?

Less Than Significant Impact. The I-110 freeway is located approximately 1.5 miles west of the Project Site, and the I-10 freeway is located approximately 1 mile north of the Project Site. The proposed Project would be implemented at an existing campus, which is bounded by Hooper Avenue (a four-lane arterial roadway), and by East 41st Street and Compton Avenue (two-lane local streets). As previously described, there are sidewalks on each street adjacent to the Project Site. The South Hooper Avenue/East 41st Street intersection is signalized, with pedestrian crossing signals and school crosswalk pavement markings. The Compton Avenue/East 41st Street intersection is unsignalized, with stop sign control on all three approaches to the intersection. There are school crosswalk pavement markings on the eastbound (East 41st Street) and southbound (Compton Avenue) approaches to this intersection; there are also "Pedestrian Crossing" warning signs for East 41st Street traffic. There are additional school crosswalk pavement markings and pedestrian crossing signals at the site-surrounding signalized intersections of South Hooper Avenue/East 40th Place and South Hooper Avenue/East 33rd Street, and school crosswalk pavement markings at the all-way stop-controlled intersection of Compton Avenue/East Martin Luther King, Jr. Boulevard. No mitigation or further study is required.

While temporary construction activities (including trucks accessing the campus) may result in congestion for those traveling along the streets that bound the campus, the campus location would not change. The proposed Project would not directly or indirectly alter the configuration of the adjacent arterial, including the sidewalks, crosswalks or traffic control devices at intersections. As such, implementation of the proposed Project would not pose a new safety hazard, as compared to current conditions.[193] The Project would implement SC-T-4 which would limit the potential for construction related hazards. Therefore, implementation of the proposed Project would not pose a safety hazard related to being on a site that is adjacent to a major arterial roadway or freeway, and impacts would be less than significant. No mitigation or further study is required.

[193] LAUSD School Upgrade Program Final Environmental Impact Report, September 2015, at pages 5.13-11 to 5.13-12.

4.14 POPULATION AND HOUSING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING. Would the Project:				
a. Induce substantial population growth in an area either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b. Displace substantial numbers of existing housing necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
c. Displace substantial numbers of people necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Impact Analysis

a)- c) No Impact. The Project Site is currently an operational high school serving students in grades 9 through 12. The proposed Project would not be designed or intended to increase the student population, rather the proposed Project is intended to provide the appropriate facilities for the current student capacity. No direct or indirect population growth in the area is anticipated. There are no residents on the Project Site, and the proposed Project would not result in population or housing displacement of the surrounding community. Students that are displaced by classroom demolition during construction would be relocated/housed in vacant classrooms or temporary onsite (interim relocatable) classrooms while the new facilities are being constructed. Therefore, no impacts related to population and housing would occur. No mitigation or further study is required.

4.15 PUBLIC SERVICES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES. Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
a. Fire protection?	☐	☐	☒	☐
b. Police protection?	☐	☐	☒	☐
c. Schools?	☐	☐	☒	☐
d. Parks?	☐	☐	☐	☒
e. Other public facilities?	☐	☐	☐	☒

Impact Analysis

XV. Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

a) Fire protection?

Less Than Significant Impact. Fire protection services would be provided by the LAFD. Fire Station 14, located 0.6 miles from the Project Site at 3401 South Central Avenue Los Angeles, CA 90011, would be the primary responder.[194]

Construction of the proposed Project may result in a temporary increase in demand for fire protection and emergency medical services. Implementation of the proposed Project would not generate increased demands for fire protection and emergency services due to a significant increase in people on the campus because the proposed Project would not result in an increase in student capacity at Jefferson HS. Response times would not be affected by the proposed Project because LAFD is already serving the Project Site. The proposed Project would not generate the need for a new fire station, as the Project is growth accommodating, not growth inducing, since it would accommodate existing and expected students that already reside within the enrollment boundaries of the school. In addition, the

194 LAFD, official website, http://www.lafd.org/, accessed February 5, 2016.

Project would be required to comply with LAFD and City of Los Angeles Department of Building and Safety regulations for water availability, fire hydrant pressure, and accessibility for firefighting equipment. Compliance with applicable State, City and District requirements, including installation of fire sprinklers, fire alarm devices, emergency access and evacuation procedures would also ensure that impacts to fire protection services would remain less than significant. As such, no new or expanded fire protection services or facilities would be required. Therefore, impacts related to fire protection would be less than significant. No mitigation or further study is required.

b) Police protection?

Less Than Significant Impact. LAUSD operates its own police department, the Los Angeles School Police Department (LASPD), which provides security for the schools and centers within its jurisdiction. The Project Site lies within the Central Division of the LASPD. The City of Los Angeles Police Department (LAPD) would be the secondary provider of police protection within the Project area. The Newton Community Police Station located at 3400 South Central Avenue in Los Angeles, approximately 0.6 miles from the Project Site, would supplement police protection along with the LASPD.[195]

Demands for police protection are generally generated by an increase in the population within a service area. The proposed Project would not increase student capacity at Jefferson HS. Implementation of the proposed Project would not generate increased demand for police services, as the Project is growth accommodating, not growth inducing, since it would accommodate existing and expected students that already reside within the enrollment boundaries of the school. During construction, the proposed Project has the potential to result in temporary demands for police services during construction from possible trespass, theft, and/or vandalism. However, the construction areas would be fenced, and the school campus is currently fenced and would remain secured during non-work hours. Any increase in police demands would be temporary and would not require the construction of new or expanded police facilities. Further, the Project would comply with LAUSD Standards regarding emergency response procedures and school safety, as required. Therefore, the proposed Project would not result in an increase of student capacity nor would it result in new operations requiring additional police protection. No mitigation or further study is required.

c) Schools?

Less Than Significant Impact. The proposed Project would not increase the student population nor would it displace the current student population to offsite locations. Students temporarily displaced by construction activities would be placed in interim classrooms onsite. No other LAUSD campuses or facilities outside of Jefferson HS would be impacted by the proposed Project. Therefore, impacts would be less than significant. No mitigation or further study is required.

[195] LAPD, official website, http://www.lapdonline.org/77th_street_community_police_station, accessed February 5, 2016.
LASPD, official website, http://www.laspd.com/about.html, accessed February 5, 2016.
LAUSD, official website, *http://achieve.lausd.net/Page/2649*, accessed February 5, 2016.

d) Parks?

No Impact. The proposed Project would not interfere with or have adverse impacts related to parks. The proposed Project would not involve new housing or long-term employment opportunities that would increase the population or lead to an increase in the need for new or altered parks. In the event that the new athletic facilities are not available for use, interim facilities on campus or at nearby facilities (e.g., Ross Snyder Recreation Center, located at 1501 E 41st Street) would be used. The proposed Project would enhance the existing recreational facilities in the area through the new baseball/softball field. The recreational facilities on the campus are available to the community for use pursuant to the Civic Center Act (CA Ed. Code Sections 38130 – 38139). No impacts would occur. No mitigation or further study is required.

e) Other public facilities?

No Impact. The proposed Project would not result in substantial adverse impacts associated with the need for new or physically altered public facilities and/or services. The Project would not involve the construction of homes or result in an increase in population. The surrounding residential area would not be affected by the proposed Project, and therefore, no impact would occur. No mitigation or further study is required.

4.16 RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION.				
a. Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐
b. Does the Project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

Impact Analysis

Would the Project:

a) Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Less Than Significant Impact. The proposed Project would include a new baseball/softball field. As a result, the recreational facilities in the area would be enhanced by providing two improved spaces that would be accessible to the community. It is anticipated that the current athletic facilities on campus would remain available during most of the construction. However, in the event that the new athletic facilities are not available for use, interim facilities on campus or at nearby facilities (e.g., Ross Snyder Recreation Center, located at 1501 E 41st Street or other District campuses) would be used. This use would entail limited activities and would temporarily occur during a fraction of the construction duration. During operation, the new recreational facilities on the campus are available to the community for use pursuant to the Civic Center Act (CA Ed. Code Sections 38130 – 38139). The proposed Project would not increase the number of students enrolled at the campus and is not growth inducing. Therefore, the Project would not increase the use of regional facilities such that substantial physical deterioration of the facility would occur. Impacts would be less than significant. No mitigation or further study is required.

b) Does the Project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

Less Than Significant Impact. The proposed Project includes improvements to the existing recreational facilities; however, it would not require the construction or expansion of recreational facilities outside existing LAUSD-owned property. The proposed Project would include upgrades to athletic facilities on the Jefferson HS campus. These improvements at the campus would enhance the existing recreational facilities (including

the playfields) that are available to the campus and the community, who may request access to the Campus facilities and grounds pursuant to the Civic Center Act (CA Ed. Code Sections 38130-38139). Potential environmental impacts associated with the proposed Project (which includes improvements to the recreational facilities) are analyzed in this IS/MND, and no significant adverse physical effect on the environment is expected as a result of the proposed Project. Therefore, environmental impacts related to community recreational facilities would be less than significant. No mitigation or further study is required.

4.17 TRANSPORTATION AND CIRCULATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRANSPORTATION & CIRCULATION. Would the Project:				
a. Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	☐	☐	☒	☐
b. Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	☐	☐	☐	☒
c. Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	☐	☐	☐	☒
d. Substantially increase hazards to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
e. Result in inadequate emergency access?	☐	☐	☒	☐
f. Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	☐	☐	☒	☐

Discussion

The following evaluation of transportation and circulation is based on the technical study for the Project entitled "Traffic/Pedestrian Safety Study for the Thomas Jefferson High School Comprehensive Modernization Project" ("Traffic/Pedestrian Safety Study").[196] The Traffic/Pedestrian Safety Study, which is included as Appendix I of this MND, evaluated the proposed Project's potential transportation, traffic circulation, and pedestrian safety impacts for the Project Site and vicinity.

The Program EIR evaluated the potential for SUP-related projects to result in impacts related to transportation and circulation. Most of LAUSD's campuses, including Jefferson HS, are located in urban areas with established street systems that provide access to the school sites. Vehicular and pedestrian access to Jefferson

[196] ESA, Thomas Jefferson High School Comprehensive Modernization Traffic and Pedestrian Safety Analysis, November 20, 2017

HS is provided via East 41st Street, Compton Avenue, and South Hooper Avenue. These access routes for vehicles and pedestrians would not change as a result of construction of the Project. The Project-specific traffic/pedestrian safety study was prepared (Appendix I), and serves as the basis for the transportation and circulation analysis presented herein.

The Program EIR includes SCs for minimizing impacts related to transportation and circulation in the existing environment in areas where future projects would be implemented under the SUP. Applicable SCs related to Project-specific impacts to transportation and circulation associated with the proposed Project are provided in *Table 4.17-1*.[197]

TABLE 4.17-1
TRAFFIC AND CIRCULATION STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-T-2	**School Design Guide.** Vehicular access and parking shall comply with Section 2.3, Vehicular Access and Parking of the School Design Guide, January 2014 (and/or Current Version). The Design Guide contains the following regulations related to traffic: • Parking Space Requirements • General Parking Guidelines • Vehicular Access and Pedestrian Safety • Parking Structure Security
SC-T-4	LAUSD shall require its ~~contractors~~Construction Contractors to submit a construction worksite traffic control plan to LAUSD ~~to the local City or County Jurisdiction~~ for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. ~~As required by Caltrans~~The construction Contractor shall implement the ~~,~~ applicable transportation related safety measures shall be implemented during construction.

Projects implemented under the Program EIR are anticipated to have less than significant impacts related to transportation and circulation within the LAUSD service area with the incorporation of SCs. The Project-specific analysis provided below determined that implementation of the proposed Project would also have less than significant impacts related to transportation and circulation in the Project area with the incorporation of SCs.

Impact Analysis

The proposed Project would occur on the existing Jefferson HS campus. Because the proposed Project would not increase capacity for enrollment or staff at the school, there would be no permanent increase in traffic generated by the Project. In addition, the Project's provision for an increase in onsite parking spaces (from 154 to approximately 188) and well as the installation of bike racks and other spaces for alternative transportation would ease traffic congestion in the surrounding neighborhood by reducing the need for

[197] Transportation and Circulation Standard Conditions of Approval SC-T-1 and SC-T-3 would not apply to the transportation and circulation analysis for the proposed Project because the Trigger for Compliance is if the Project would increase student capacity by more than 25% or 10 classrooms, and additional traffic.

campus staff, students, or visitors to find on-street parking spaces. Therefore, the analysis presented herein only focuses on potential traffic impacts associated with Project construction.

Access to the Project Site is provided by a series of local and regional roads. The roads that would be used by Project-related traffic (construction workers and trucks) are anticipated to be East Martin Luther King Jr. Boulevard, South Central Avenue and South Hooper Avenue (four-lane arterial roads), East 41st Street and Compton Avenue (two-lane local streets), and Interstates 10 and 110 (regional freeways, located approximately 1 mile north of, and approximately 1.5 miles west of, the Project Site, respectively). The street intersections on the expected haul routes where Project truck traffic would turn generally are controlled by traffic signals (the exception being the all-way stop-controlled intersection of East 41st Street and Compton Avenue). Data available from LADOT indicates the following daily traffic volumes on area roadways:

- East Martin Luther King, Jr. Boulevard = 6,600 vehicles per day
- South Hooper Avenue = 15,000 vehicles per day
- East 41st Street = 4,000 vehicles per day
- Compton Avenue = 7,000 vehicles per day

Although roadway and traffic characteristics (e.g., parking, traffic signals) affect the carrying capacity of roadways, for transportation planning purposes, two-lane roadways (like East 41st Street and Compton Avenue) have the capacity to accommodate about 15,000 vehicles per day; and the carrying capacity of four-lane arterials (like East Martin Luther King, Jr. Boulevard and South Hooper Avenue) ranges up to 40,000 vehicles per day. As such, the volume-to-capacity (v/c) ratios of the above-cited area roads ranges from 0.267 to 0.467 for East 41st Street and Compton Avenue, and 0.165 to 0.375 for East Martin Luther King, Jr. Boulevard and South Hooper Avenue.

Would the Project:

a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Less Than Significant Impact. As stated above, school enrollment would remain the same following construction of the Project, and there would be no permanent increase in traffic generated by the school. Construction activity associated with the proposed Project is not expected to generate a substantial number of vehicle trips (truck trips or otherwise). The proposed Project would be developed in phases, with work spread over approximately 5.5 years.

Construction of the proposed Project would include onsite demolition, excavation, stockpiling, and grading activities. In addition, trucks would intermittently deliver building materials to the site. The proposed Project would require an average of about 50 workers (and a maximum of about 150 workers) onsite on a given day, generating an average of about 126 one-way trips per day, and a maximum of about 376 one-way trips per day.[198] The work hours would be such that workers would primarily travel to and from the Project Site outside of morning and evening peak traffic hours. The number of daily truck trips would range from 14 to 38 one-way trips per day, except for a one-week period during the pre-construction removal of contaminated soil, when there would be 50 to 100 one-way trips per day; the soil removal would require 4 to 6 workers onsite each day. In most cases, truck loading/unloading would be conducted between the hours of 7:00 a.m. and 6:00 p.m., with truck trips spread over the work hours. Conservatively assuming that the up to 414 one-way vehicle trips (376 worker trips plus 38 truck trips) would travel on all of the study roads, the resulting v/c ratios under Existing with Project conditions would increase by 0.028 or less (i.e., would not exceed the threshold of significance established by LADOT). Street intersections where truck traffic would turn generally are controlled by traffic signals (the exception being the all-way stop-controlled intersection of East 41st Street and Compton Avenue). To assist in site ingress and egress, flaggers provided by the Project contractor(s) may be used to assist or direct traffic flows to and from the local streets. The surrounding roadways would be able to support the increase in traffic from construction workers and truck activity (Project-generated traffic would not substantially increase the v/c ratios of the affected roads. Potential Project-related construction traffic impacts would be mitigated by compliance with and incorporation of ~~LAUSD~~ ~~Standard Conditions of Approval~~ SCs, such as limiting construction-related trucks to off-peak commute periods.

As shown in Table 4.17-1, LAUSD requires its contractors to submit a construction worksite traffic control plan designed to avoid or limit construction related impacts where feasible, prior to construction, as required by SC-T-4. Therefore, the Project would not cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system. As such, impacts would be less than significant. No mitigation or further study is required.

b) Conflict with an applicable congestion management program, including, but not limited to, level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

No Impact. Level of service standards established by jurisdictions/agencies are intended to regulate long-term (permanent) traffic increases associated with new development and do not apply to short-term (temporary) traffic increases that occur during construction.[199] As stated above, school enrollment would remain the same following the Project, and there would be no permanent increase in traffic generated by the Project. Potential impacts associated with the proposed Project would be limited to construction activity. Specifically, increased vehicle trips and potential congestion generated by construction-related passenger vehicles and trucks would cease when construction is complete, and implementation of the proposed Project

[198] Daily trips by construction workers would consist of inbound and outbound commute trips (conservatively assumed to be each worker in their own vehicle), plus midday trips (lunch or other errands) by about 25% of the workers.

[199] Per the Los Angeles County 2010 Congestion Management Program, analysis of the cause of a "deficiency" (i.e., when level of service standards are not maintained) shall exclude traffic generated by construction activity.

would not result in any long-term, ongoing effects related to traffic and congestion. No impacts would occur. No mitigation or further study is required.

c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location, that results in substantial safety risks?

No Impact. The nearest airport (LAX) is located approximately 9 miles west of the Project Site. Project construction would not change air traffic patterns. In addition, the proposed Project would not involve the installation of structures that could interfere with air space. No impacts would occur. No mitigation or further study is required.

d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less Than Significant Impact. The proposed Project would not result in any hazards due to design features or incompatible uses. The proposed Project would be implemented at an existing school site. The proposed new parking areas would be designed to meet the District's School Design Guidelines which provide requirements for campus designs that ensure that potential hazards or incompatible uses are avoided. The Project has been designed to incorporate standard engineering practices, such as standard driveway widths and turning radii and the provision of adequate line of sight to avoid design elements that could result in hazards. Changes to existing roadways are not part of the proposed Project. In addition, traffic generated during Project construction would be compatible with the mix of vehicle types (autos and trucks) currently using the regional and local roadways surrounding the campus. As such, impacts would be less than significant. No mitigation or further study is required.

e) Result in inadequate emergency access?

Less Than Significant Impact. Jefferson HS is located in a developed urban area with an existing roadway network that accommodates the movements of emergency vehicles that travel in the area. Neither construction nor demolition of the proposed Project would introduce any impedance to access for emergency vehicles to the campus or the surrounding area, and may result in improved points of access on the campus for emergency vehicles. As required by SC-T-4, LAUSD requires its contractors to submit a construction worksite traffic control plan (including strategies to maintain emergency access at all times) prior to construction. Staging areas for construction would be located on school property; therefore, emergency access to the site would not be adversely affected during Project construction. The proposed Project's impact to emergency vehicle access, therefore, would be less than significant. No mitigation or further study is required.

f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

Less Than Significant Impact. In general, adopted policies, plans, and programs pertaining to public transit, bicycle, and pedestrian travel are intended to be used for long-term planning purposes. The proposed Project would not directly or indirectly eliminate alternative modes of transportation, transportation corridors, or facilities (e.g., bus stops). Further, the proposed Project would not prevent the use of any roads on which

public transit routes operate, and as stated above, school enrollment would remain the same following the Project; there would be no permanent increase in traffic generated by the school.

Students, faculty and staff can currently travel to school using public transit routes, bicycles and by walking. As discussed above, there are sidewalks on all streets surrounding the school. In addition, LAUSD encourages ride-sharing programs for students and teachers, as well as walking and riding bicycles to school. Transit service to the Project Site is provided by the Los Angeles County Metropolitan Authority (or Metro), which operates Bus Line 55/355 on Compton Avenue and East 41st Street (nearest stops on Compton Avenue at East 41st Street, and on East 41st Street at Compton Avenue. Also, LADOT DASH operates Bus Line 102 on East 41st Street (nearest stops on East 41st Street at South Hooper Avenue).

During construction activities, the Project may affect sidewalk accessibility within the campus. However, any effects on sidewalk accessibility would be temporary, and the construction contractor would be required to ensure safe alternative routes are available. Pedestrian access to the school during the construction phase would be minimally altered, and as required by SC-T-4, contractors would be required to submit a construction worksite traffic control plan prior to construction.

For the above-stated reasons, there would be no impacts related to conflicts with policies, plans, or programs related to transit, bicycle, or pedestrian travel, and the Project would have a less-than-significant impact on the performance and safety of public transit, bicycle or pedestrian facilities. No mitigation or further study is required.

4.18 TRIBAL CULTURAL RESOURCES

XVIII. TRIBAL CULTURAL RESOURCES. Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or	☐	☐	☐	☒
b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☐	☒

Discussion

The Program EIR includes SCs for minimizing impacts related to tribal cultural resources within the existing environment in areas where future projects would be implemented under the SUP. Applicable SCs related to tribal cultural resources impacts associated with the proposed Project are provided in *Table 4.18-1*.

TABLE 4.18-1
TRIBAL CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-TCR-1	All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the ~~local~~affiliated Native American Tribal representative has been contacted and consulted to provide as-needed monitoring or to assist in the accurate assessment, recordation, and if appropriate, recovery of the resources, as required by the District.

Impact Analysis

Would the Project:

Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)

No Impact. The Native American Heritage Commission (NAHC) maintains a confidential Sacred Lands File (SLF) which contains sites of traditional, cultural, or religious value to the Native American community. The NAHC was contacted on January 25, 2016 to request a search of the SLF. The NAHC responded to the request in a letter dated January 28, 2016 (Appendix C2 of this IS/MND). The SLF results indicate that no Native American cultural resources are known to be located within the Project Site. The letter also included a list of Native American contacts. Contact letters to all individuals and groups indicated by the NAHC as having affiliation with the Project Site were prepared and mailed on February 4, 2016. The letters described the proposed Project and included a map depicting the location of the Project Site. Recipients were requested to reply with any information they ~~are~~were able to share about Native American resources that might be affected by the proposed Project. To date, no responses have been received. While it is not anticipated, in the event that construction-related ground disturbance results in the discovery of potential resources, SC-TCR-1 would be implemented in order to avoid potential impacts to Tribal resources. In the event that a potential tribal cultural resource is uncovered during construction, all work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Tribal representative has been contacted and consulted to provide as-needed monitoring or to assist in the accurate assessment, recordation, and if appropriate, recovery of the resources, as required by the District. Therefore, the proposed Project would have no impact on Tribal cultural resources as defined in PRC Section 21074. No mitigation or further study is required.

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

No Impact. As described above in impact a), LAUSD has not received any requests for notification or consultation from California Native American Tribes regarding resources defined by PRC Section 21074 to date. Further, the NAHC did not identify tribal cultural resources within the Project Site and there is no substantial evidence that Tribal cultural resources have the likelihood of being discovered on the campus. While it is not anticipated, in the event that construction-related ground disturbance results in

the discovery of potential resources, SC-TCR-1 would be implemented in order to avoid potential impacts to Tribal resources. In the event that a potential tribal cultural resource is uncovered during construction, all work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Tribal representative has been contacted and consulted to provide as-needed monitoring or to assist in the accurate assessment, recordation, and if appropriate, recovery of the resources, as required by the District. Therefore, the proposed Project would have no impact on Tribal cultural resources as defined in PRC Section 21074. No mitigation or further study is required.

4.19 UTILITIES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES. Would the Project:				
a. Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	☐	☐	☒	☐
b. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
c. Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
d. Have sufficient water supplies available to serve the Project from existing entitlements and resource, or are new or expanded entitlements needed?	☐	☐	☒	☐
e. Result in a determination by the wastewater treatment provider which serves or may serve the Project that it has adequate capacity to serve the Project's Projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
f. Be served by a landfill with sufficient permitted capacity to accommodate the Project's solid waste disposal needs?	☐	☐	☒	☐
g. Comply with federal, State, and local statutes and regulations related to solid waste?	☐	☐	☒	☐

Discussion

The Program EIR includes SCs for minimizing impacts to utilities and service system in the existing environment in areas where future projects would be implemented under the SUP. Applicable SCs related to Project-specific impacts to utilities and service systems are provided in *Table 4.19-1*.

TABLE 4.19-1
UTILITIES AND SERVICE SYSTEMS STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-USS-1	**School Design Guide.** Construction and demolition waste shall be recycled to the maximum extent feasible. LAUSD has established a minimum non-hazardous construction and demolition debris recycling requirement of 75% by weight as defined in Specification 01340, Construction & Demolition Waste Management. **Guide Specifications 2004 - Section 01340, Construction & Demolition Waste Management.** This section of the LAUSD Specifications includes procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvage or disposal of non-hazardous waste materials generated during demolition and/or new construction (Construction & Demolition (C&D) Waste), to foster material recovery and re-use and to minimize disposal in landfills. Requires the collection and separation of all C&D waste materials generated onsite, reuse or recycling onsite, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum of 75% of the C&D waste generated.
SC-USS-2	LAUSD shall coordinate with the City of Los Angeles Department of Water and Power or other appropriate jurisdictions and departments prior to the relocation or upgrade of any water facilities to reduce the potential for disruptions in service.

Impact Analysis

Would the Project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Less Than Significant Impact. The City of Los Angeles Department of Public Works (LADPW) provides wastewater services for the Project Site. The Project Site is located within the Hyperion Treatment System, which includes the Hyperion Treatment Plant (HTP), the Tillman Water Reclamation Plant (TWRP), and Los Angeles-Glendale Water Reclamation Plant. The HTP is designed to treat 450 million gallons per day (mgd), but it experiences a lower average dry weather flow, resulting in available treatment capacity. [200]

Construction of the proposed Project would generate a minimal volume of wastewater and would nominally increase wastewater generation. Implementation and operation of the proposed Project would not change the existing uses or introduce new uses that would exceed the wastewater treatment requirements of the Los Angeles Regional Water Quality Control Board. As discussed above in Section 4.6, Geology and Soils, the proposed Project would be required to prepare a SWPPP outlining the BMPs to be implemented to avoid or minimize runoff discharges. Further, the SWPPP would include erosion control BMPs to control and minimize erosion and sedimentation being discharged from the Project Site. Additionally, any wastewater discharge by the proposed Project would be required to comply with the NPDES permit requirements.

[200] Los Angeles County Sanitation District, 2017.Hyperion Water Reclamation Plant. Available at : https://www.lacitysan.org/san/faces/home/portal/s-lsh-wwd/s-lsh-wwd-cw/s-lsh-wwd-cw-p/s-lsh-wwd-cw-p-hwrp?_afrLoop=1003491441621589&_afrWindowMode=0&_afrWindowId=null#!%40%40%3F_afrWindowId%3Dnull%26_afrLoop%3D1003491441621589%26_afrWindowMode%3D0%26_adf.ctrl-state%3Dtqz1lyj6p_4, accessed November 29, 2017.

Therefore, compliance with these existing regulations would result in a less-than-significant impact to wastewater treatment requirements. No mitigation or further study is required.

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental impacts?

Less Than Significant Impact. Construction of the proposed Project would be developed in phases, with work initiated in 2019, and spread over a 5.5 year period (2019 through 2025). The proposed Project is estimated to require on average approximately 150 construction personnel per day for the heaviest period of construction. During construction, water would be required for activities such as dust control; however, these activities would be limited and temporary and would not consume large amounts of water. While wastewater at the Project Site would be generated by construction activities and construction workers, the existing facilities and temporary portable facilities would be used to accommodate the construction related surge. Additionally, due to the temporary nature of the construction activities and the minimal number of construction workers, the amount of construction-related wastewater that would be generated is not expected to be substantial. Therefore, impacts associated with Project construction would be less than significant.

The proposed Project would not result in increased enrollment or capacity. Therefore, implementation of the proposed Project would not increase total water consumption within the District, and would not require construction of new or expanded water treatment facilities, and impacts related to Project operation would be less than significant. No mitigation or further study is required.

c) Require or result in the construction of new stormwater drainage facilities, or expansion of existing facilities, the construction of which could cause significant environmental effects?

Less Than Significant Impact. As discussed above in Section 4.9, Hydrology and Water Quality, construction of the proposed Project would require implementation of a SWPPP, which would outline construction BMPs for site drainage and implement an appropriate combination of monitoring and resource impact avoidance. Operation of the proposed Project would decrease the overall square footage of buildings, therefore increasing the amount of permeable area on the site due to landscaping and the additional baseball/softball field. In addition, the proposed Project would use the existing stormwater drainage facilities and would not alter drainage patterns. The proposed Project would not require or result in construction or expansion of stromwater drainage facilities. The proposed Project Site is located in a developed area of the City of Los Angeles, which contains an existing stormwater collection and conveyance system. The Project Site is an existing school campus, and the proposed Project would increase the pervious surfaces and include landscaping features which would reduce stormwater runoff from the Project Site. In addition to compliance with NPDES permit requirements, applicable laws, regulations, and standard PDFs and practices construction and operation would ensure that impacts associated with runoff would not exceed the capacities of existing stormwater drainage systems. Incorporation of ~~LAUSD~~ SC-USS-1 and SC-USS-2 would ensure that impacts would be less than significant. Therefore, the proposed Project would not require or result in the construction of new stormwater drainage facilities or expansion of existing facilities and impacts would be less than significant. No mitigation or further study is required.

d) Have sufficient water supplies available to serve the Project from existing entitlements and resources, or are new or expanded entitlements needed?

Less Than Significant Impact. Construction of the proposed Project would require water use for construction activities, such as dust control measures. However, these activities would be limited and temporary, and as such, would not consume large quantities of water such that additional supplies would be required. Therefore, short-term impacts associated with requiring additional water supply would be less than significant.

Although overall square footage of buildings would decrease and efficiencies may reduce the amount of water used in the building, it is assumed that water demand would remain the same as the existing conditions due to the upgrades to the baseball/softball fields associated irrigation systems. Therefore, the demand for non/potable water supply would be accommodated by existing supplies. Therefore, the long-term impact to non/potable water supply would be less than significant. No mitigation or further study is required.

e) Result in a determination by the wastewater treatment provider that would serve the Project that it has inadequate capacity to serve the Project's projected demand in addition to the provider's existing commitments?

Less Than Significant Impact. During construction of the proposed Project, wastewater at the Project Site would be primarily generated by construction activities and construction workers. However, due to the temporary nature of the construction activities and the low number of construction workers, the amount of construction-related wastewater that would be generated is not expected to be substantial. Therefore, short-term impacts associated with wastewater treatment would be less than significant.

Although overall square footage of buildings would decrease, it is assumed that wastewater demand would remain the same as existing conditions. The proposed Project would not increase student capacity. Therefore, the demand of wastewater and wastewater treatment provided by LADPW would be accommodated by existing conditions. Therefore, the long-term impact to wastewater treatment capacity would be less than significant. No mitigation or further study is required.

f) Be served by a landfill with sufficient permitted capacity to accommodate the Project's solid waste disposal needs?

Less Than Significant Impact.

The Project Site is served by the Los Angeles County Sanitation District (LACSD), which includes sanitary landfills, recycle centers, materials recovery/transfer facilities, and energy recovery facilities. The nearest such facility, the Puente Hills Materials Recovery Facility (MRF) accepts construction/demolition waste.

Prior to demolition, activities descried in the RAW would be completed at the Project Site. As a part of the RAW and during excavation activities, excavated soil would be either directly loaded into staged trucks (or if applicable, temporarily stockpiled on plastic liners next to the excavation areas until it could be loaded out for offsite disposal). The soil would then be transported offsite to an appropriate licensed facility for disposal,

based on previous waste profile characterization results. The excavated soil would be segregated and managed as non-hazardous, non-RCRA hazardous, or RCRA hazardous waste.

Non-hazardous soils would be transported to an approved Class 3 landfill for disposal or use as daily cover. Non-RCRA and RCRA hazardous soils would be transported to a licensed and properly permitted Class 1 disposal facility or an out-of-State facility permitted to accept hazardous waste. The Class 1 disposal facility that accepts the RCRA hazardous soil may require that the soil be treated prior to disposal pursuant to the land ban restrictions found at Title 40, CCR, Part 376.

All non-RCRA hazardous or RCRA hazardous wastes would be disposed of at a California Class I land disposal facility or an out-of-State landfill permitted to accept such wastes. The waste management facilities listed below may be selected for this Project:

- Kettleman Hills Facility, 35251 Old Skyline Road, Kettleman, California 93239, Phone: (559) 386-9711
- Clean Harbors Buttonwillow, LLC, 2500 West Lokern Road, Buttonwillow, California, 93206, Phone: (661) 762-6200

The Kettleman Hills Facility has a remaining capacity of 500,000 cubic yards (cy) and the Clean Harbors Buttonwillow Facility has a remaining capacity of 4,900,000 cy. The total combined permitted remaining capacities for Class I land disposal facilities is more than 5,000,000 cy. The disposal of up to 500 cy of soil would represent less than 1 percent of the combined permitted remaining capacities, and the Project would not exceed or significantly reduce the available landfill capacities.

Prior to Project construction, demolition of 13 buildings would occur, totaling approximately 84,000 square feet, which could generate up to 5,250 tons of debris. The Puente Hills MRF is permitted to receive up to 4,400 tons per day and accepts on average approximately 2,760 tons per day, which leaves a remaining capacity of approximately 1,640 tons per day.[201] Thus, it is anticipated that the Puente Hills MRF would have sufficient capacity to accept the Project-related debris and would be able to accommodate the proposed Project's solid waste disposal needs during construction. Therefore, the short-term impact associated with construction would be less than significant. No mitigation or further study is required.

g) Comply with federal, State, and local statutes and regulations related to solid waste?

Less Than Significant Impact. The proposed Project would comply with all applicable federal, State, and local statutes and regulations related to the handling and disposal of solid waste materials. Construction debris would be handled and disposed of according to District Specification 01 4524, ~~LAUSD~~ SCs (including but not limited to: SC-USS-1), and the applicable local and regional standards. Operation of the proposed Project would generate similar quantities of solid waste compared to existing conditions, and would require disposal within a landfill. Compliance with all applicable regulations related to reducing solid waste would ensure the proper handling and disposal of solid waste associated with the proposed Project. The proposed Project would

[201] County Sanitation Districts of Los Angeles County, 2015, Report of Facility Information, Transfer/Processing Report For The Puente Hills Materials Recovery Facility.

comply with the recycling requirement in AB 341, as well as the construction and demolition (C&D) waste recycling/reuse requirement in California Green Building Standards Code Section 5.408, and LAUSD School Design Guide & Specification 01340, Construction and Demolition (C&D) Waste Management, that requires the collection and separation of all C&D waste materials generated onsite, reuse or recycling onsite, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum 75 percent of the C&D waste generated. Therefore, impacts would be less than significant. No mitigation or further study is required.

4.20 MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. MANDATORY FINDINGS OF SIGNIFICANCE.				
a. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b. Does the project have impacts which are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects).	☐	☐	☒	☐
c. Does the project have environmental effects which cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☒	☐

Impact Analysis

Does the Project:

a) Have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?

Less Than Significant Impact. The Jefferson HS campus was formally determined eligible as an individual property for the National Register through consensus with the SHPO, automatically listed in the California Register, and assigned a CHR Status Code of 2S2. As noted in Section V, Cultural Resources, the Administration and Classroom Building (Building 1), Auditorium (Building 2), Cafeteria Building (Building 3), and Main Classroom Building (Building 4), Mechanical Arts Building (Building 11) and Power House (Building 8) were determined contributors to the potential Historic District, as well as the majority of the landscape surrounding these Buildings 1 and 4.. As discussed in Section V and as evaluated in the HRTR (Appendix C1), the campus would retain its integrity after implementation of the proposed Project. Jefferson HS would retain

integrity and would remain eligible for the National Register and California Register as the contributing buildings and landscapes would be rehabilitated in conformance with the Standards~~,~~. New construction would conform to Standards 9 and 10. The two contributing buildings, the Power House (Building 8) and Mechanical Arts Building (Building 11), would be documented in a HABS-like Level II recordation document and their character-defining features and materials would be salvaged. Removal of these buildings would not constitute a substantial adverse change in the historic significance or integrity of the potential Historic District. The potential Historic District would retain sufficient integrity through the preservation of the majority of the contributing buildings and the contributing landscape. The CDFs of these contributing buildings would be restored or, in limited instances, replaced in-kind, ensuring the integrity of the historical resource and maintaining its eligibility for the National Register and California Register.

With implementation of SC-CUL-1 through SC-CUL-6, Jefferson HS would retain sufficient integrity to remain eligible for the National Register and California Register as majority of the contributing buildings and landscapes would be rehabilitated in conformance to the SOI Standards, new construction would conform to SOI Standards 9 and 10, and the two contributing buildings planned for demolition would be documented in a HABS-like recordation document and their CDFs would be salvaged per ~~LAUSD~~ SC-CUL-1 to SC-CUL-6 resulting in a less-than-significant impact.

While the impact would be considered less than significant, LAUSD has proposed the following voluntary mitigation measure to further reduce the impacts of the loss of historic fabric that will result from the demolition of Mechanical Arts Building (Building 11) and the Power House (Building 8) as well as other alterations, discussed above, that would result in the loss of CDFs.

MM-CUL-1: To communicate stories, information, and experiences pertinent to the history/historic events that took place on the Jefferson High School campus, an Interpretive ~~Exhibit~~ Program shall be developed in collaboration with the Jefferson High School community (i.e. students, staff, alumni, community members, etc.). An Interpretive Plan shall be developed by the District as a guideline for the Interpretive Program. The Interpretive ~~Exhibit~~ Program shall be located in a publically accessible area on campus (such as the school library) and shall describe the history of Jefferson High School prior to the Project; specifically, the period of significance (1935–1937) and key historical events that were relevant to Jefferson High School. The Interpretive Program may include ~~shall be highlighted through~~ historical photographs, aerials, Sanborn maps, student photographs, yearbooks, newspapers, artifacts, and written narrative that visually demonstrate the physical appearance, activities, and architectural style of the school. A District-approved representative shall provide input and oversight to the contents, design, and installation of the Interpretive Program. ~~or a qualified architectural historian or historic preservation professional shall provide input and oversight to the contents, design, and installation of this Interpretive Exhibit an interpretive exhibit (as applicable).~~

As noted in Section V, Cultural Resources, the records search indicated that a total of two archaeological resources (P-19-003822 and P-19-003889) have been previously documented within a ½-mile radius of the Project Site, neither of which are within the boundaries of the Project Site. As noted in Section V, Cultural Resources, background research conducted for the Project indicates that the Project Site has a low sensitivity for prehistoric archaeological resources, but a higher sensitivity for historic-period archaeological resources

(specifically resources associated with the early 1900s). Because the proposed Project includes ground disturbance, there is potential for the discovery of unanticipated archaeological resources associated with early 1900s uses of the Project Site related to recreational and educational activities, including refuse deposits and building or structural foundations. . The Project requires compliance with ~~the standard conditions~~ SC-CUL-7 through SC-CUL-13 in order to reduce impacts to less than significant. These measures include retention of an on-call qualified archaeologist, implementation of an archaeological resources monitoring program, halting and re-directing work in the event of a discovery until it is evaluated for significance, and Phase III Data Recovery/Mitigation Program in the event that a significant resource is discovered and cannot be avoided.

As discussed in Section 3.4, Biological Resources, the Project Site is located on an active high school campus that contains no native vegetation capable of supporting any special status plant or wildlife species. The Project Site is entirely developed and surrounded by residential development to the south, east, and west, and industrial development to the north and east. An arborist survey was completed for the proposed Project.[202] The survey inventoried 139 trees and noted that up to two coast live oak trees (which are protected by the City of Los Angeles) and up to 77 non-protected trees of various species would be removed as a part of the proposed Project.[203] Three coast live oak trees that are located along the southernmost portion of the campus, as part of the historic lawn (specifically, at the intersections of Hooper Avenue and 41st Street and Compton Avenue and 41st Street), would not be removed.[204]The Project Site does not contain any species that are identified as a candidate, sensitive or special status species in local or regional plans, policies, or regulations, or protected by the CDFW or USFWS. Therefore, the proposed Project would not substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animals.

b) Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Less Than Significant Impact. A cumulative impact could occur if the Project would result in an incrementally considerable contribution to a significant cumulative impact in consideration of past, present, and reasonably foreseeable future projects for each resource area. Because Project impacts are generally construction-related, the cumulative analysis is generally confined to the immediate vicinity or within a one-mile radius.

As discussed in the Program EIR SUP, each of the environmental topics in the Program EIR assesses the types of projects that may be implemented under the SUP and assumes that more than one may take place at the same time. As an active school campus it is anticipated that there would be ongoing maintenance activities that would occur on the campus. However, none would be anticipated to have the same scope or scale associated with this Project. The District has more than 22 comprehensive modernization, upgrade, or new

[202] Cy Carlberg, 2017. City of Los Angeles Protected Tree Report, Thomas Jefferson High School. Prepared for LPA, Inc. February 27, 2017.
[203] Ibid.
[204] Ibid.

development projects planned for campuses located within the District's boundaries but none of these would occur within one mile of the campus.

As discussing in Section I, Aesthetic Resources section of this IS/MND, implementation of the proposed Project would not impact any scenic vistas, State scenic highways, or generate substantial light and glare. Impacts related to visual character would be less than cumulatively considerable due to PDFs that would ensure the Project is compatible with existing buildings. The Project does not include any agricultural or mineral resources that could be impacted, and the Project would have no impacts related to general plan and zoning consistency, population, housing, public services, and recreation. As a result, cumulative impacts related to these resources would not occur.

Implementation of the proposed Project would not impact any historic resources. As noted in Section V, Cultural Resources section of this IS/MND, impacts related to historic resources would be less than cumulatively considerable due to the incorporation of SC-CUL-1 through SC-CUL-6, which would ensure Jefferson HS would retain integrity and would maintain its status in the National Register and California Register as the contributing buildings and landscapes would be rehabilitated in conformance with the Secretary of the Interiors Standards, new construction would conform to Standards 9 and 10, and the two contributing buildings, the Power House (Building 8) and Mechanical Arts Building (Building 11), would be documented in a recordation program that is comparable to the HABS Level II recordation document and their character-defining features and materials would be salvaged.

Implementation of the proposed Project would not impact any significant archaeological resources. Impacts to archaeological resources would be less than cumulatively considerable due to compliance with SC-CUL-7 through SC-CUL-13. These SCs include retention of an on-call qualified archaeologist, implementation of an archaeological resources monitoring program, halting and re-directing work in the event of a discovery until it is evaluated for significance, cultural resources sensitivity training, and Phase III Data Recovery/Mitigation Program in the event that a significant resource is discovered and cannot be avoided.

In addition, as documented in this IS/MND, air quality, greenhouse gas, hazardous material, water quality and traffic impacts that are generated by construction activities would be short-term and limited by minimal construction workers traveling to the site, and a short construction period. The minimal emissions, traffic and water pollutants generated by the Project would also be less than cumulatively considerable due to the location of the Project and limited construction activities and duration occurring at the same time. The chemicals used onsite during Project operation would comply with existing federal, State and local regulations pertaining to hazardous materials use, treatment, storage and disposal. Therefore, the Project's contribution to cumulative impacts would be less than cumulatively considerable. Therefore, the proposed Project would result in less than significant cumulative impacts.

c) Have environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant Impact. The proposed Project would not result in potentially significant Project-level impacts. The Project would implement SCs related to aesthetics, air quality, biological resources, cultural resources, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water

quality, noise, pedestrian safety, transportation and circulation, and tribal cultural resources. Implementation of these SCs would reduce the Project's potential adverse effects on human beings to less than significant. Therefore, additional mitigation measures and further study are not required.

5. Errata

The following text changes are made to the IS/MND and incorporated as part of the Final MND. These changes further substantiate conclusions and/or clarify aspects of the previously circulated IS/MND. None of these changes reflect a determination of a new or more significant environmental impact than discussed in the IS/MND. Changes to the text are noted with underline (for added text) or ~~strikeout~~ (for deleted text).

1.4 ENVIRONMENTAL PROCESS

Page 4

9 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. ~~Adopted~~Certified by the Board of Education on November 10, 2015.

The above text edit to replace "Adopted" with "Certified" was made throughout the document on the following pages:

- Page 20
- Page 45
- Page 59
- Page 64

3.1.1 PROJECT OBJECTIVES

Page 22

Modernization and/or upgrades would be completed for the following buildings:

- Administrative Building (Building 1):[234] Interior remodeling would be completed throughout this building (including the Library) to accommodate relocated classroom and the exterior would be painted. The upgrades would also entail interior ADA programmatic access and structural (seismic) retrofits/improvements.[235]

[234] Also referred to along with the Main Classroom Building, Administrative Building, and the Administration and Academic Building (usually in conjunction with Building 4). Various documents for the Project Site that reference this building also refer to it as the: Administrative and Main Classroom Building, Administration Building, Administrative/or Administration/Library Building and Main Classroom Building.

[235] HMC Architects with input from IMEG (formerly TTG) Engineers, 2017. Thomas Jefferson High School Comprehensive Modernization Final Schematic Design, Structural Analysis.

5. Errata

- Main Classroom Building (Building 4):[32] Interior remodeling would be completed throughout this building to accommodate relocated classroom and the exterior would be painted. The upgrades would also entail interior ADA programmatic access and structural (seismic) retrofits/improvements.
- Cafeteria Building (Building 3): Structural (seismic) improvements would be completed within this building. The exterior of this building would also be painted.
- Auditorium (Assembly Hall) Building (Building 2): ADA programmatic access improvements would be completed within this building. ~~Several rows of seats may be removed and t~~The building's exterior would be painted.

3.1.2 HISTORIC RESOURCES TREATMENT/APPROACH

Page 32

Administrative and Classroom Building 1

Exterior Alterations

- A new concrete, ADA-compliant (and DSA approved; building use and occupancy required) exit would be provided at the interior quad side
- ~~S~~The exterior plaster ~~above~~covering windows would be removed to restore original window conditions. The exterior windows would be repaired ~~constructed~~ where required~~.~~ ~~, and ground floor windows would be replaced and repaired to match the original design~~.
- All roofing and mechanical equipment would be replaced

Interior Alterations

- Alterations would be completed in the interior for a new concrete shear wall. The Ross Dickinson mural in the library and existing plaster would be affected by this new wall. The Ross Dickinson mural would be repaired and restored in-place by a conservation artist, safely removed and stored offsite during modernization, and reinstalled when the library construction is complete. A conservation plan has been prepared by a Conservator of Paintings to ensure the safe treatment, removal, storage, and replacement of this mural.[39]
- The existing gypsum plaster above the shelving in the library would be removed and mitigated at the location of the new shear wall.
- The elevator (that was not a part of the original building) would be removed to allow the lobby to be expanded. The alterations to the interior campus (quad side) entry to lobby would retain the curved

[32] Also referred to as the Academic Building.

walls connection between Building 1 and 4 and would insert the addition of an accessible and securable entrance that incorporates windows to allow natural light to access the lobby

- The floor circulation, stairs and corridors shall remain. The 2nd floor~~ of the~~ Library would be expanded to incorporate what originally was the 2nd floor corridor and adjacent classrooms.
- The interior design of the library would incorporate design elements that would distinguish boundaries where previous corridor walls used to be.
- Portions of the terrazzo floors on the first floor would require removal and abatement during the seismic upgrades. Prior to removal, the existing terrazzo floor would be photographed, and each color would be tested. Samples of the flooring would be removed in 2-foot sections for the purposes of comparing/matching to samples for replication purposes. These pieces would be replicated to match the existing design, color, texture, and other material qualities, to the extent feasible
- No changes would occur to the curved concrete stairwells, with exception of added code compliant handrails.

Auditorium Building 2

- A lift for access to the 2nd floor control room would be added to the Auditorium Foyer
- The existing restrooms would be altered to ensure that they are ADA-compliant and California Building Code-compliant facilities to allow single-occupant and gender-neutral single occupant use
- The Auditorium stage would be modified to remove the south stairs and add a new lift for access to the stage
- An accessible, exterior ramp w~~ill~~ould be added at the east side of the building.

Cafeteria Building 3

- Seismic upgrade of roof structure bracing to exterior walls w~~ill~~ould be accomplished by opening up ceilings to gain access to existing roof structure. The work includes seismic retrofit work at the underside of existing roof trusses. Wall finishes w~~ill~~ould be removed and replaced as required to install structural connectors at walls. ~~Seismic upgrades are required in this building and would entail strengthening the building's structure (i.e., providing anchorage, strengthening an exit door, and installing a roof diaphragm) through the ceiling in order to avoid or to minimally altering the building.~~
- The exterior of the building would not be altered (it would only be painted along with all of the other remaining buildings)

Classroom Building 4

- A new concrete, code-required exit at interior quad side would be provided

5. Errata

- The interior would be altered for the addition of a new concrete shear wall
- All roofing and mechanical equipment would be replaced
- The textured plaster and smooth concrete exterior walls would be patched and repaired, where necessary
- ~~E~~The exterior plaster covering ~~above the~~windows w~~ill~~ould be removed, and windows~~to~~ repaired to original window conditions.
- ~~W~~The windows would be weatherproofed, repaired ~~habilitated~~ and or replaced where required ~~, and replaced and repaired~~to match the original design
- The existing streamline passageway would remain intact with no changes, other than roof replacement
- The major building features would be restored as necessary but would not be altered

3.1.5 INFRASTRUCTURE

Page 35

As part of the new onsite stormwater improvements, stormwater would be collected by way of sheet flowing, and collection through catch basins and routing to new underground storm collection chambers. During an over flow event, the rain water would then be allowed to overflow and connect to existing offsite storm drainage system at Compton Avenue and Hooper Avenue. ~~During construction, a~~A pump system would be installed to pump storm water and route it as necessary to the existing storm-water and ~~to~~ route it as necessary to the existing storm-water systems.

Based on the findings from the geotechnical evaluation and infiltration testing, prepared by Gorian & Associates, Inc. in 201~~5~~6, the upper soils of the site (from 6 to 9 feet) are suitable for the construction of a stormwater infiltration system (greater than 0.5 inches/hour).[41]

3.1.7 SECURITY AND SAFETY FEATURES

Page 35

With the exception of the front lawn, the perimeter of the campus is currently surrounded by an 8-foot metal security fence. ~~The improvements to the Project site would include similar fencing.~~ New buildings are sited to create a secure perimeter, minimizing need for perimeter fencing. ~~Additionally, n~~New internal fencing would be installed to allow the athletic areas to be distinctly apart from the academic core of the campus to allow for off-hour community access. A wellness center would also have a separate entrance off Hooper Avenue, apart from the main campus. All new structures would be equipped with fire suppression sprinkler systems and lighting on the exterior walls. All entries would be illuminated to provide safe access. The new/expanded parking lots and fields would have lighting that would be focused on the parking area and shielded to reduce glare and light spill-over. PDFs would be incorporated to ensure that these new sources would not create light spill-over greater than 2-foot candles onto adjacent residences (per SC-AE-7). Further, site lighting would be designed to have minimal offsite impact and contribution to sky glow. Outdoor lighting of architecture and landscape features and interior lighting would be designed to minimize light trespass to the outside from the point of focus or interior.

3.1.8 SUSTAINABILITY FEATURES

Page 36

LAUSD is committed to sustainable construction principles, and has been a member of the Collaborative for High Performance Schools (CHPS) since 2001. CHPS has established criteria for the development of high performance schools to create a better educational experience for students and teachers~~ by designing the best facilities possible~~. CHPS-designed facilities are healthy, comfortable, energy efficient, material efficient, easy to maintain and operate, commissioned, and environmentally responsive. ~~Site, a building that teaches, safe and secure, community resource, stimulating architecture, and adaptable to changing needs.~~

School facilities seeking CHPS-certification complete a scorecard and must achieve a certain number of points to be certified. The proposed Project has exceeded the minimum requirements to qualify as a CHPS-certified school. Some of the sustainable design features that would be incorporated into the proposed Project include easy access to public transportation, onsite treatment of stormwater runoff, "cool-roof" building materials, lighting ~~which~~ that reduces light pollution, water and energy efficient design, water-wise landscaping, collection of recyclables, and sustainable and/or recycled-content building materials. The proposed Project's new buildings and structures would be designed to reduce energy use below current levels by incorporating modernized and energy-efficient features, which may include lighting, windows, electrical transformers, building insulation, or installation of irrigation smart controllers, etc. All new construction would exceed by 10 percent or more the California Title 24, Part 6 energy efficient standards.

5. Errata

3.1.10 CONSTRUCTION PHASING AND EQUIPMENT

Construction Phasing

The proposed Project would be developed in five phases over approximately 5.5 years.[33] The construction schedule would have limited to no overlap between phases. Construction activities are anticipated to be initiated in 2019/2020 and to be completed in 2025.

Page 37

47 The analysis provided in this IS/MND conservatively assumes that construction will be completed within a 5-year construction period. The phasing components may overlap and the timeline may be refined as the final designs for the Project are complete.

4.1 AESTHETICS

Page 43

Discussion

The Program EIR includes ~~Standard Conditions of Approval(~~SCs~~)~~ for minimizing impacts to the aesthetic resources of the existing environment in areas where future projects would be implemented under the SUP. Applicable SCs related to aesthetic resource impacts associated with the proposed Project are provided below in *Table 4.1-1*.

The above text edit to replace "Standard Conditions of Approval" with "SCs" was made throughout the document on the following pages:

- Page 75
- Page 126
- Page 127
- Page 144
- Page 158

Page 47

These design changes could include, but are not necessarily limited to, changes to the campus layout, height of buildings, and/or architectural style of buildings. ~~LAUSD~~ SC-CUL-1 and SC-CUL-2 would ensure the proposed modernization of contributors and the design of new buildings would conform to the Secretary of the Interior's Standards for Rehabilitation, specifically Standards 9 and 10 for new construction (as discussed

[33] The analysis provided in this IS/MND conservatively assumes that construction will be completed within a 5-year construction period. The phasing components may overlap and the timeline may be refined as the final designs for the Project are complete.

in the Historic Resources Technical Report for the Project Appendix C1), and LAUSD requirements and guidelines for the treatment of historical resources under the guidance of a qualified historic architect.

The above text edit to remove "LAUSD" before identification of Standard Conditions was made throughout the document on the following pages:

- Page 47
- Page 85
- Page 109
- Page 144
- Page 156
- Page 158

4.3 AIR QUALITY

Page 54

Less Than Significant Impact. The Project Site is located within the Air Basin. The South Coast Air Quality Management District (SCAQMD) is required, pursuant to the CAA, to reduce emissions of criteria pollutants for which the Air Basin is in non-attainment (i.e., ozone, PM10, and PM2.5).

4.4 BIOLOGICAL RESOURCES

Page 68

The following changes were made to Table 4.1-1:

TABLE 4.4-1
BIOLOGICAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-BIO-1	LAUSD qualified biologist shall identify sensitive species and their habitat within or near ~~proposed~~ the Project Site. LAUSD will conduct a literature search, which shall consider a one-mile radius beyond the Project construction site and shall be performed by a qualified biologist with knowledge of local biological conditions as well as the use and interpretation of the data sources identified below. Where appropriate, in the opinion of the biologist, the literature search shall be supplemented with a site visit and/or aerial photo analysis. Resources and information that shall be investigated for each site should include, but not be limited to: • United States Fish and Wildlife Service (USFWS) • National Marine Fisheries Services (NMFS) • California Department of Fish and Wildlife (CDFW) • California Native Plant Society (CNPS) • County and/or city planning or environmental offices for sensitive species, habitat, and/or heritage trees that may not exist on published databases. • CNDDB • CNPS Rare Plant Inventory • Local Audubon Society • Los Angeles County Department of Regional Planning for information on Significant Ecological Areas

- California Digital Conservation Atlas for ~~d~~District-wide location of reserves, plan areas, and land trusts that may overlap with Project sites.

Biological Resources Report

If a report is necessary and the LAUSD qualified biologist determines that a school construction Project will affect an identified sensitive plant, animal, or habitat, a biological resources report shall be prepared. To provide a complete assessment of the flora and fauna within and adjacent to a site-specific Project impact area, with particular emphasis on identifying endangered, threatened, sensitive, and locally unique species and sensitive habitats, the biological resources report shall include the following.

- Information on regional setting that is critical to the assessment of rare or unique resources
- A thorough, recent floristic-based assessment of special status plans and natural communities, following the CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities. CDFW recommends that floristic, alliance- and/or association-based mapping and vegetation impact assessments be conducted at the Project Site and neighboring vicinity. The Manual of California Vegetation (Sawyer et al.) should also be used to inform this mapping and assessment. Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect6 impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions.
- A current inventory of the biological resources associated with each habitat type onsite and within the area of potential effect. CDFW's California Natural Diversity Data Base (CNDDB) should be contacted to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code.
- An inventory of rare, threatened, and endangered, and other sensitive species onsite and within the area of potential effect. Species to be addressed should include all those identified in CEQA Guidelines Section 15380, including sensitive fish, wildlife, reptile, and amphibian species. Seasonal variations in use of the Project area should also be addressed. Focused species-specific surveys, conducted at appropriate time of year and time of day when sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with the CDFW and USFWS.
- A discussion of the potential adverse impacts from light, noise, human activity, exotic species, and drainage. Drainage analysis should address Project-related changes on drainage patterns on and downstream from the site; the volume, velocity, and frequency of existing and post- Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-Project fate of runoff from the Project Site.
- Discussions about direct and indirect Project impacts on biological resources, including resources in nearby public lands, open space, adjacent natural habitats, wetland and riparian ecosystems, and any designated and/or proposed or existing reserve lands (e.g., preserve lands associated with a NCCP). Impacts on, and maintenance of, wildlife corridor/movement areas, including access to undisturbed habitats in adjacent areas.
- Mitigation measures for adverse Project-related impacts to sensitive plants, animals, and habitats. Measures should emphasize avoidance and reduction of biological impacts. For unavoidable impacts, onsite habitat restoration or enhancement should be outlined. If onsite measures are not feasible or would not be biologically viable, offsite measures through habitat creation and/or acquisition and preservation in perpetuity should occur. This measure should address restrictions on access, proposed land dedications, monitoring and management programs, control of illegal dumping, water pollution, increased human intrusion, etc.
- Plans for restoration and vegetation shall be prepared by qualified biologist with expertise in southern California ecosystems and native plant vegetation techniques. Plans shall include, at a minimum:
  - location of the mitigation site
  - plant species to be used, container sizes, and seeding rates
  - schematic depicting the mitigation area
  - planting schedule
  - irrigation method
  - measures to control exotic vegetation

	- specific success criteria - detailed monitoring program - contingency measures should the success criteria not be met - identification of the party responsible for meeting the success criteria and providing for conservation of the site in perpetuity. LAUSD shall consult with the U.S. Army Corps of Engineers, USFWS and/or the CDFW and comply with any permit conditions or directives from those agencies regarding the protection, relocation, creation, and/or compensation of sensitive species and/or habitats.
SC-BIO-2	LAUSD shall protect sensitive species from harmful exposure to light by shielding light sources, redirecting light sources, or using low intensity lighting.
SC-BIO-3	LAUSD shall comply with the following: • Project activities (including, but not limited to, staging and disturbances to native and nonnative vegetation, structures, and substrates[72]) should occur outside of avian breading season to avoid take of birds or their eggs[73]. Depending on the avian species present, a qualified LAUSD surveyor or qualified biologist may determine that a change in the breeding season dates is warranted. • If avoidance of the avian breeding season is not feasible, beginning 30 days prior to the initiation of the Project activities, a qualified LAUSD surveyor or qualified biologist with experience in conducting breeding bird surveys shall conduct weekly bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (within 500 feet for raptors). The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of Project activities. If a protected native bird is found, LAUSD shall delay all Project activities within 300 feet of the suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified LAUSD surveyor or qualified biologist could continue the surveys in order to locate any nests. If an active nest is located, Project activities within 300 feet of the nest (within 500 feet for raptor nests), or as determined by a qualified biologist, shall be postponed until the nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing shall be used to demarcate the inside boundary of the 300- or 500-foot buffer between the Project activities and the nest. Project personnel, including all contractors working on site, shall be instructed on the sensitivity of the area. LAUSD shall provide results of the recommended protective measures to document compliance with applicable State and federal laws pertaining to the protection of native birds. • If the qualified LAUSD surveyor or qualified biologist determines that a narrower buffer between the Project activities and observed active nests is warranted, a written explanation as to why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the Project activities and the nest and foraging areas) shall be submitted to LAUSD Office of Environmental Health and Safety (OEHS) Project manager. Construction contractors can then reduce the demarcated buffer. • No construction shall occur within the fenced next zone until the young have fledged, are no longer being fed by the parents, have left the nest, and will no longer by impacted the construction. • A qualified LAUSD surveyor or biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain outside the demarcated buffer and that the flagging, stakes, and/or construction fencing are maintained, and to minimize the likelihood that active nests are abandoned or fail due to Project activities. The biological monitor shall send weekly monitoring reports to LAUSD OEHS Project manager during the grubbing and clearing of vegetation, and shall notify LAUSD immediately if Project activities damage avian nests.
SC-BIO-4	LAUSD shall comply with the following conditions if a new school would be located in an area containing native habitat or if a protected tree would be removed from an existing campus: • Mitigation shall not include translocation of rare plants. CDFW, in most cases does not recommend translocation, salvage, and/or transplantation of rare, threatened, or endangered plant species, in particular oak trees, as compensation for adverse effects because successful implementation of translocation is rare. Even if translocation is initially successful, it will typically fail to persist over time.

	• **Permanent conservation of habitat.** To ensure the conservation of sensitive plant species, the preferred method is permanent conservation of habitat containing these species; any translocation proposed shall only be an experimental component of a larger, more robust plan. • **Offsite acquisition of woodland habitat.** Due to the inherent difficulty in creating functional woodland habitat with associated understory components, the preferred method is offsite acquisition of woodland habitat in the local area. All acquired habitat shall be protected under a conservation easement and deeded to a local land conservancy for management and protection. • **Creation of oak woodlands.** Any creation of functioning woodlands shall be of similar composition, structure, and function of the affected oak woodland. The new woodland shall mimic the function, demonstrate recruitment, plant density, and percent basil, canopy, and vegetation cover, as well as other measurable success criteria before the measure is deemed a success. - All seed and shrub sources used for tree and understory species in the new planting site shall be collected or grown from onsite sources or from adjacent areas and shall not be purchased from a supplier. This method should reduce the risk of introducing diseases and pathogens into areas where they might not currently exist. - Oaks should be replaced by planting acorns because this has been shown to result in greater oak survival. Monitoring efforts, including the exclusion of herbivores, shall be employed to maximize seedling survival during the monitoring period. - Monitoring period for oak woodland shall be at least 10 years with a minimum of seven years without supplemental irrigation. This allows the trees to go through one typical drought cycle. This should also be the minimal time needed to see signs of stress and disease and determine the need for replacement plantings. LAUSD shall request CDFW review and comment on any translocation plans, habitat preservation, habitat creation and/or restoration plans.
SC-BIO-5	LAUSD shall comply with CDFW recommendations as listed below:[74] • Project development or conversion that results in a reduction of wetland acreage or wetland habitat values shall not occur unless, at a minimum, replacement or preservation results in “no net loss” of either wetland habitat values or acreage. • All wetlands and watercourses, whether intermittent or perennial, should be retained and provided with substantial setbacks which preserve the riparian and aquatic values and maintain their value to onsite and offsite wildlife populations. • A jurisdictional delineation of creeks and their associated riparian habitats shall be conducted as part of the biological resources report. The delineation should be conducted pursuant to the USFWS wetland definition. Implementation of recommended measures shall compensate for affected mature riparian corridors and loss of function and value of wildlife corridors.

4.5 CULTURAL RESOURCES

Page 75

The following changes were made to the project impact checklist for V. Cultural Resources.

5. Errata

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES: Would the Project:				
a. Cause a substantial adverse change in significance of a historical resource as defined in State CEQA Section15064.5?	☐	~~☒~~☐	☒	☐
b. Cause a substantial adverse change in significance of an archaeological resource pursuant to State CEQA Section15064.5?	☐	☐	☒	☐
c. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☒	☐
d. Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☐	☒	☐

Page 76

The following changes were made to Table 4.5-1:

TABLE 4.5-1
CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-CUL-1	Design Team to Include Qualified Historic Architect For campuses with qualifying historical resources under CEQA, the Design team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as Project plans progress, with the Secretary of the Interior's Standards and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2). For projects involving structural upgrades to historic resources, the Design team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated project-level experience in Historic Preservation. The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards.
SC-CUL-2	Role of Historic Architect on Design Team The tasks of the Historic Architect on the Design team shall include (but not necessarily be limited to) the following: 1. The Historic Architect shall work with the Design and LAUSD to ensure that Project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall work with the Design throughout the design process to develop Project options that facilitate compliance with the applicable historic preservation standards. 2. For new construction, the Historic Architect shall work with the Design and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as

5. Errata

Applicable SCs	Description
	feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus. 3. For modernization and upgrade projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design and LAUSD to ensure that specifications for design and implementation of projects comply with the applicable historic preservation standards. 4. The Historic Architect shall participate in design team meetings through all phases of the Project through 100 percent construction drawings, pre-construction, and construction phases (as needed). 5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal Project components and treatment approaches comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The memos will be reviewed by LAUSD. ~~And incorporated into the Mitigation Monitoring and Reporting Plan (MMRP) for the project.~~ 6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources. 7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or on site storage. This shall include detailed instructions on maintaining and protecting in place relevant features. 8. The Design and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process.
SC-CUL-3	School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. LAUSD has adopted policies and guidelines that apply to projects involving historic resources. The Design team and Historic Architect shall apply these guidelines, which include the LAUSD School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and upgrade/modernization projects. In keeping with the district's adopted policies and goals, LAUSD shall re-use rather than destroy historical resources where feasible. LAUSD shall follow the guidelines outlined in these documents to the maximum extent practicable when planning and implementing projects and adjacent new construction involving historical resources. General guidelines shall include: • Retain and preserve the historic character of buildings, structures, landscapes, and site features that are historically significant. • Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match in materials and appearance. • Avoid removing, obscuring, or destroying character-defining features and materials. • Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity. • Conceal reinforcement required for structural stability or the installation of life safety or mechanical systems. • Undertake surface cleaning, preparation of surfaces, and other projects involving character-defining features using the least invasive, gentlest means possible. Avoid sandblasting and chemical treatments.
SC-CUL-4	Prior to demolition or mothballing activities, LAUSD shall retain a professional architectural photographer and a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to prepare HABS-like documentation for the historical resources slated for demolition. The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for demolition. Documentation prepared for the package will draw upon primary- and secondary-source research and available studies previously prepared for the Project. Measured drawings shall not be required for the Project. The specifications for the HABS-like package follow:

Applicable SCs	Description
	Photographs: Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context photographs for the campus and adjacent setting. Photographs will be taken of interior and exterior features of the buildings using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be printed in black and white on archival film paper and also provided in electronic format. Descriptive and Historic Narrative: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate. Historic Documentation Package Submittal: The draft package will be assembled by the historian or architectural historian and submitted to LAUSD for review and comment. After final approval, one hard-copy set of the package will be prepared as follows: Photographs will be individually labeled and stored in individual acid-free sleeves. The remaining components of the historic documentation package (site map, photo index, historic narrative, and additional data) will be printed on archival bond, acid-free paper. Upon completion of the descriptive and historic narrative, all materials will be compiled in electronic format and presented to LAUSD for review and approval. Upon approval, one hard-copy version of the historic documentation package will be prepared and submitted to LAUSD. The historian or architectural historian shall offer a hardcopy package and compiled, electronic version of the final package to the Los Angeles Public Library (Central Library), Los Angeles Historical Society, and the South Central Coastal Information Center, to make available to researchers.
SC-CUL-5	LAUSD, consistent with Education Code Section 17540, may ~~shall~~ offer to sell any useful features of the school building (e.g., the school bell, chalkboards, lockers) that do not contain hazardous materials for use or display, if features are not retained by LAUSD for reuse or display.
SC-CUL-6	LAUSD, consistent with Education Code Section 17545, may ~~shall~~ offer for sale any remaining functional and defining features and building materials from the buildings. These materials could include doors, windows, siding, stones, lighting, doorknobs, hinges, cabinets, and appliances, among others. They may ~~shall~~ be made available to the public for sale and reuse, if features are not retained by LAUSD for reuse or display.
SC-CUL-7	LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39).

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The following information is added to Mitigation Measure CUL-1:

MM-CUL-1: To communicate stories, information, and experiences pertinent to the history/historic events that took place on the Jefferson High School campus, an Interpretive ~~Exhibit~~ Program shall be developed in collaboration with the Jefferson High School community (i.e. students, staff, alumni, community members, etc.). An interpretive Plan shall be developed by the District as a guideline for the Interpretive Program. The Interpretive ~~Exhibit~~ Program shall be located in a publically accessible area on campus (such as the school library) and shall describe the history of Jefferson High School prior to the Project; specifically, the period of significance (1935–1937) and key historical events that were relevant to Jefferson High School. The Interpretive Program may include ~~shall be highlighted through~~ historical photographs, aerials, Sanborn maps, student

photographs, yearbooks, newspapers, artifacts, and written narrative that visually demonstrate ~~the~~ physical appearance, activities, and architectureal style of the school. A District-approved representative shall provide input and oversight to the contents, design, and installation of the Interpretive Program. ~~or a qualified architectural historian or historic preservation professional shall provide input and oversight to the contents, design, and installation of this Interpretive Exhibit (as applicable).~~

4.13 PEDESTRIAN SAFETY AND 4.17 TRANSPORTATION AND CIRCULATION

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The following changes were made to Tables 4.13-1 and 4.17-1:

Applicable SCs	Description
SC-T-4	LAUSD shall require its ~~contractors~~Construction Contractors to submit a construction worksite traffic control plan to LAUSD ~~to the local City or County Jurisdiction~~ for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. ~~As required by Caltrans~~The construction Contractor shall implement the~~,~~ applicable transportation related safety measures shall be implemented during construction.

4.18 TRIBAL CULTURAL RESOURCES

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The following changes were made to Table 4.18-1:

TABLE 4.18-1
TRIBAL CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-TCR-1	All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the ~~local~~affiliated Native American Tribal representative has been contacted and consulted to provide as-needed monitoring or to assist in the accurate assessment, recordation, and if appropriate, recovery of the resources, as required by the District.

4.20 MANDATORY FINDINGS OF SIGNIFICANCE

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The following information is added to Mitigation Measure CUL-1:

MM-CUL-1: To communicate stories, information, and experiences pertinent to the history/historic events that took place on the Jefferson High School campus, an Interpretive ~~Exhibit~~ Program shall be developed in collaboration with the Jefferson High School community (i.e. students, staff, alumni, community members, etc.). An Interpretive Plan shall be developed by the District as a guideline for the Interpretive Program. The Interpretive ~~Exhibit~~ Program shall be located in a publically accessible area on campus (such as the school library) and shall describe the history of Jefferson High School prior to the Project; specifically, the period of significance (1935–1937) and key historical events that were relevant to Jefferson High School. The Interpretive Program may include ~~shall be highlighted through~~ historical photographs, aerials, Sanborn maps, student photographs, yearbooks, newspapers, artifacts, and written narrative that visually demonstrate the physical appearance, activities, and architectural style of the school. A District-approved representative shall provide input and oversight to the contents, design, and installation of the Interpretive Program. ~~or a qualified architectural historian or historic preservation professional shall provide input and oversight to the contents, design, and installation of this Interpretive Exhibit~~ an interpretive exhibit ~~(as applicable).~~

Appendix A

Air Quality Technical Report

ESA

LOS ANGELES UNIFIED SCHOOL DISTRICT THOMAS JEFFERSON HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

Air Quality Technical Report

Prepared for
Los Angeles Unified School District
Office of Environmental Health and Safety
3333 South Beaudry Avenue 21st Floor
Los Angeles, CA 90017

May 2018

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EXECUTIVE SUMMARY

Los Angeles Unified School District (LAUSD) proposes a Comprehensive Modernization to Thomas Jefferson High School (proposed Project) in the City of Los Angeles, California. The Comprehensive Modernization Project includes various renovations, modernizations, and new construction at Thomas Jefferson High School; including the demolition and removal of existing buildings totaling approximately 116,000 square feet (sf), construction of new facilities totaling approximately 110,000 sf, and modernization of approximately 53,000 sf of buildings.

Thomas Jefferson High School is located in a residential area, approximately two miles south of downtown Los Angeles and approximately 15 miles east of the Pacific Ocean. Specifically, the 18.9-acre campus is located at 1319 East 41st Street within the southeast portion of the City of Los Angeles (PProject Site). The campus comprises an entire block and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and residences and East 33rd Street to the north. The Assessor's Parcel Number (APN) for the Project Site is 5114-03-6900.

In accordance with the requirements under the California Environmental Quality Act (CEQA), this technical report provides an estimate of air quality emissions for the proposed Project and the potential impacts from associated construction and operational activities. The report includes the categories and types of emission sources resulting from the proposed Project, the calculation procedures used in the analysis, and any assumptions or limitations.

This report summarizes the potential for the proposed Project to conflict with an applicable air quality plan; to violate an air quality standard or threshold; to result in a cumulatively net increase of criteria pollutant emissions; to expose sensitive receptors to substantial pollutant concentrations; or to create objectionable odors affecting a substantial number of people. The findings of the analyses are as follows:

- The incremental increase in emissions from construction and operation of the proposed Project would not exceed the regional daily emission thresholds set forth by the South Coast Air Quality Management District (SCAQMD). Thus, the proposed Project would not result in a regional violation of applicable air quality standards or jeopardize the timely attainment of such standards in the South Coast Air Basin (Air Basin).
- The incremental increase in onsite emissions from construction and operation of the proposed Project would not exceed the localized significance thresholds set forth by the SCAQMD. Thus, the proposed Project would not result in a localized violation of applicable air quality standards or expose offsite receptors to substantial levels of regulated air contaminants.

- Proposed Project construction and operations would not result in significant levels of odors.
- The proposed Project would be consistent with air quality policies set forth by the LAUSD, the SCAQMD, and the Southern California Association of Governments (SCAG).
- The proposed Project would not result in a significant cumulative air quality impact.

SECTION 1.0
Introduction

This air quality technical report was prepared by ESA to support an Initial Study and Mitigated Negative Declaration (IS/MND) for the proposed Thomas Jefferson High School Comprehensive Modernization Project (proposed Project) located in the City of Los Angeles, California.

Ongoing master planning activities and facility site assessments conducted for Los Angeles Unified School District (LAUSD or District) facilities over the last several years have identified school sites throughout the District that exhibit critical physical conditions. The School Upgrade Program (SUP) implemented by LAUSD outlines a series of capital improvements intended to rehabilitate and modernize these schools so they are safe, healthy, and functional places to learn.

LAUSD prepared a Program Environmental Impact Report (SCH No. 2013111046) to evaluate the direct and indirect environmental effects of the SUP program.[1] The SUP Program EIR (Program EIR) was certified by the LAUSD Board on November 10, 2015[2].

According to the Program EIR, Projects implemented under the SUP are anticipated to have less than significant and potentially significant impacts on air quality in the Air Basin. However, the Project-specific analysis provided in Section 5.0 below concludes that implementation of the proposed Project would have less-than-significant impacts on the surrounding community and the school site.

The purpose of this report is to provide a detailed technical air quality analysis of the proposed Project. ESA conducted this air quality assessment to evaluate the potential air quality impacts associated with construction activities, mobile sources, building energy demand, and other aspects of the proposed Project construction and operations that have the potential to generate criteria air pollutant emissions. The objectives of this Air Quality Technical Report are to:

- Evaluate the construction and operational criteria air pollutant associated with proposed Project development and the potential for regional and localized air quality impacts based on applicable standards and thresholds;
- Provide, if needed, air quality mitigation measures as required to meet applicable air quality standards and thresholds as specified by the South Coast Air Quality Management District (SCAQMD) and the LAUSD Standard Conditions (SCs) identified in the Program EIR.

1 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

2 Los Angeles Unified School District, Board of Education. Regular Board Meeting -November 10, 2015. http://laschoolboard.org/11-10-15RegBd.

Table 1, *Air Quality Impacts*, summarizes the Program EIR's conclusions regarding the air quality impacts of the SUP, as well as the findings of this Project-specific analysis.

TABLE 1
AIR QUALITY IMPACTS

Environmental Threshold **Would The Project:**		PROGRAM EIR LEVEL OF IMPACT SIGNIFICANCE	PROJECT-SPECIFIC LEVEL OF IMPACT SIGNIFICANCE	APPLICABLE STANDARD CONDITIONS OF APPROVAL (SCS)
A)	Conflict with or obstruct implementation of the applicable air quality plan?	Less Than Significant	Less Than Significant	SC-AQ-1
B)	Generate short-term air pollutant emissions, either directly or indirectly, that may have a significant impact on the environment?	Potentially Significant and Unavoidable	Less Than Significant	SC-AQ-2 SC-AQ-3
C)	Generate long-term air pollutant emissions, either directly or indirectly, that may have a significant impact on the environment?	Less Than Significant	Less Than Significant	SC-AQ-2 SC-AQ-3
D)	Expose sensitive receptors to substantial pollutant concentrations?	Potentially Significant and Unavoidable	Less Than Significant	SC-AQ-4
E)	Create objectionable odors affecting a substantial number of people?	Less Than Significant	Less Than Significant	SC-AQ-5

Source: LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015 and ESA 2017.

1.1 Existing Conditions

Thomas Jefferson High School (Jefferson HS) is an operational high school serving students in grades 9 through 12. After the traditional high school hours, the campus is used for the Jefferson Adult School. The campus was initially constructed in 1917 and was essentially rebuilt following the Long Beach Earthquake in 1933. Buildings at the Project Site include: a two-story Administrative and Main Classroom Building, Assembly Building (Auditorium), Cafeteria Building, Science Building, two Gymnasiums, lunch shelter/service building, Mechanical Arts Building, Music Building, Homemaking Building, Industrial Arts Building, several additional buildings including the Metal Shop and Power and Pump Vaults, portable buildings, and modular structures.[3]

A Preliminary Environmental Assessment (PEA) Report for the proposed Project was conducted. The PEA involved a thorough field sampling and analysis program to determine whether historical uses have resulted in hazardous substances at the Project Site.[4] Soil samples were taken from numerous locations on the Project Site and were analyzed for various hazardous substances.

[3] LAUSD. July 28, 2015. Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California 90011. Los Angeles, CA.

[4] Alta Environmental, Draft Preliminary Environmental Assessment Equivalent Report for Thomas Jefferson High School Comprehensive Modernization. February 2017.

The results of the laboratory analysis showed levels of lead and arsenic above residential screening thresholds in shallow soils. The contaminated soils would be removed prior to construction of each phase with methods intended to reduce dust emissions.

1.2 Project Description

Jefferson HS is located upon approximately 18.9 acres in a residential area, approximately two miles south of downtown Los Angeles and approximately 15 miles east of the Pacific Ocean (**Figure 1**, *Project Vicinity*). The campus is specifically located at 1319 East 41st Street within the southeast portion of the City of Los Angeles. The campus comprises an entire block and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and residences and East 33rd Street to the north (**Figure 2**, *Project Location*). The Assessor's Parcel Number (APN) for the Project Site is 5114-03-6900.

As part of LAUSD's SUP, the District plans to implement a comprehensive modernization Project at Thomas Jefferson High School which includes various renovations, modernizations, and new construction; including the demolition and removal of existing buildings totaling approximately 116,000 square feet (sf), construction of new facilities totaling approximately 110,000 sf, and modernization of approximately 53,000 sf of buildings.

The proposed Project would result in demolition of and/or modifications to existing buildings, potentially including historic buildings and resources. The proposed Project would be designed and implemented in a manner that complies with the LAUSD Design Guidelines and Treatment Approaches for Historic Schools.[5]

[5] Los Angeles Unified School District. January 2015. Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. Los Angeles, CA.

SOURCE: Los Angeles County GIS.

Thomas Jefferson High School Comprehensive Modernization Project. 211085.23

Figure 1
Project Vicinity

SOURCE: NAIP 2014

Thomas Jefferson High School Comprehensive Modernization Project. 211085.23

Figure 2
Project Location

The major Project components include: demolition of various buildings; construction of new buildings; upgrades to facilities throughout the campus; and improvements to comply with federal, State and local facilities requirements. **Table 2**, *Characteristics of Existing Buildings*, below, shows the buildings and modular buildings that would be demolished and removed and the buildings that would be renovated as a result of the proposed Project.

The proposed Project would be developed in five phases over an approximately 5.5-year construction phasing schedule. The construction schedule would have overlapping phases and the analysis captures the worst-case daily emissions for these overlapping phases. Construction is anticipated to take begin with site preparation activities in 2019. Building demolition would primarily occur during the summer recess and during periods when students are not on campus to prevent students from being exposed to air emissions from demolition activities, which could be higher than typical construction emissions.

1.2.1 Contaminated Soil Removal

As previously stated, lead and arsenic were found in shallow soils on the Project Site in excess of residential screening levels. Prior to construction of each phase, contaminated soil would be removed from the site and replaced with clean fill dirt. Alta Environmental prepared a Removal Action Workplan (RAW) to remove approximately 230 cubic yards of soil to meet cleanup goals. Soil removal duration would be approximately one week over the entire construction duration and would require haul trucks and off-road equipment, such as small excavators and loaders to handle and transport soils to haul trucks or potentially to temporary stockpiles. If soil is temporarily stockpiled, it would be covered with plastic and secured with sandbags in accordance with SCAQMD regulations. Haul trucks would transport contaminated soil to a licensed receiver facility in Buttonwillow, California.

TABLE 2
CHARACTERISTICS OF EXISTING BUILDINGS

Building/Site Plan Number	Building Name	Year Built	Building Type
Permanent Buildings/Structures to be Demolished/Removed			
Building 12/010DAM	Music Building	1951	Permanent
Building 16/011DAP	Home Economics[6]	1960	Permanent
Building 6/005BAN	Gymnasium Building (Competitive)	1955	Permanent
Building 25/023DAP	Metal Shop	1964	Permanent
Building 11/009BAJ	Mechanical Arts Building	1938	Permanent
Building 7/006BAN	Gymnasium Building (Practice)	1957	Permanent
Building 8/007C0E	Power House	1915	Permanent
Building 21/016BAN	Industrial Arts Building	1959	Permanent
Building 10/P0191K	Lunch Shelter Building	1941	Permanent
Building 9/008D0F	Lunch Service Building	1920	Permanent

6 Also referred to as the Homemaking Building.

Building/Site Plan Number	Building Name	Year Built	Building Type
Portable Buildings to be Removed			
X0217J	AA-217	1935	Portable
X0243J	AA-243	1935	Portable
A0497L	A-497	1949	Portable
A0548M	A-548	1950	Portable
A1245W	A-1245	1988	Portable
A1246W	A-1246	1988	Portable
A1247W	A-1247	1988	Portable
M0607L	M-607	1946	Portable
X0909M	AA-909	1950	Portable
X209P	AA-2096	1960	Portable
A1248W	A-1248	1988	Portable
X0960M	AA-960	1950	Portable
X2382P	AA-2382	1962	Portable
X0323L	AA-323	1947	Portable
X0306L	AA-306	1946	Portable
Permanent Buildings to be Modernized and/or Upgraded			
Building 1/001BCJ	Administrative Building	1936	Permanent
Building 4/001BCJ	Academic Building	1936	Permanent
Building 2/003BCJ	Auditorium (Assembly Hall) Building	1937	Permanent
Building 3/002CAJ	Cafeteria Building	1936	Permanent
Permanent Buildings/Structures to Remain			
Building 5/025BES	Science and Classroom Building	1936	Permanent
Building 33/019DAG	Bleachers Building	1926	Permanent

SOURCE: LAUSD, 2016

1.2.2 Construction (Comprehensive Modernization Phases 1 to 5)

Building renovation and construction activities associated with the Project would occur in five phases as described below:

- **Phase 1**: This phase is anticipated to be completed in approximately 6 months. During Phase 1, portable buildings and structures located along Compton Avenue in the eastern portion of the site would be demolished and removed. After demolition and grading, this area would be used for construction staging and would include an electrical enclosure. The area east of the playing field would include the interim housing buildings.
- **Phase 2**: This phase is anticipated to be completed in approximately 24 months. During Phase 2, the portable buildings northeast of the playing field would be demolished. The

Industrial Arts Building and Metal Shop Building interiors would be demolished as required for new proposed interim spaces. The interiors of the Industrial Arts and Shop Buildings would be remodeled. New portable buildings would be provided as interim housing in the same area.

- **Phase 3**: This phase is anticipated to be completed in approximately 24 months. During Phase 3, portable buildings, the Home Economics Building, Music Building, Mechanical Arts Building, Gymnasium Building, and Power House would be demolished. After demolition and grading activities, the development of the New Classroom Building, New Athletics Building, and new parking lots would be construction during this phase on the southeastern corner of the campus. The existing Administrative/Library Building interior remodeling would be completed during this phase.

- **Phase 4:** This phase is anticipated to be completed in approximately 24 months. During Phase 4, the Gymnasium (Boys' Gymnasium) would be demolished. The existing Administrative/Library Building interior would be demolished and remodeled during this phase. Improvements, including programmatic access and structural upgrades, for the Cafeteria Building and Auditorium Building would be completed during this phase. The new Lunch Pavilion and Quad would be constructed during this phase.

- **Phase 5:** This phase is anticipated to be completed in approximately six months. This phase would include the entire demolition of the interim housing area in the northeast portion of the campus and the buildings in the northwest corner of the campus. These areas would be redeveloped for parking, athletic courts and fields. The new parking area would be constructed internal to the campus along the Compton Avenue. The new tennis courts would be construction on the northwest corner of the campus the hardcourts and playing field and green house would be constructed in the eastern-northeastern area of the campus.

Additional modernization and/or upgrades associated with the Project would be completed for the following buildings:

- Administrative/Library Building[7]: Interior remodeling would be completed throughout this building to accommodate relocated classroom and the exterior would be painted. The upgrades would also entail interior Americans with Disabilities Act (ADA) programmatic access and structural (seismic) retrofits/improvements.
- Main Classroom Building: Interior remodeling would be completed throughout this building to accommodate relocated classroom and the exterior would be painted. The upgrades would also entail interior ADA programmatic access and structural (seismic) retrofits/improvements.
- Cafeteria Building: ADA programmatic access and structural (seismic) improvements would be completed within this building. The exterior of this building would be painted.

[7] Also referred to along with the Main Classroom Building and the Administration and Academic Building. Various documents for the Project Site that reference this building also refer to it as the: Administrative and Main Classroom Building, Administration Building, or Administration/Library Building and Main Classroom Building.

- Auditorium (Assembly) Building: ADA programmatic access and structural (seismic) improvements would be completed within this building. Several rows of seats may be removed and the building's exterior would be painted.

Seismic retrofitting would be completed in compliance with the seismic safety requirements of the LAUSD Supplemental Geohazard Assessment Scope of Work, California Building Code, Division of State Architect, and California Department of Education.

Site upgrades that would be completed throughout the campus include:

- Site-wide infrastructure, including plumbing, electrical, and storm drain.
- Site-wide upgrades to remove identified and prioritized barriers to program accessibility.
- Landscape, hardscape, and exterior paint.

Improvements as required by the Americans with Disabilities Act, Division of the State Architect, CEQA, Department of Toxic Substances Control (DTSC), Office of the Independent Monitor for ADA program accessibility, and any other required improvements or mitigations to ensure compliance with local, State, and/or federal facilities requirements.

1.3 Updated and Project-Specific Conditions

1.3.1 Regional Air Quality

The Project Site is located within the South Coast Air Basin (Air Basin). The distinctive climate of the Air Basin is determined primarily by its terrain and geographical location. Regional meteorology is dominated by a persistent high pressure area which commonly resides over the eastern Pacific Ocean. Seasonal variations in the strength and position of this pressure cell cause changes in the weather patterns of the area. Warm summers, mild winters, infrequent rainfall, moderate daytime on-shore breezes, and moderate humidity characterize local climatic conditions. This normally mild climatic condition is occasionally interrupted by periods of hot weather, winter storms, and hot easterly Santa Ana winds.

The Air Basin is an area of high air pollution potential, particularly from June through September. This condition is generally attributed to the large amount of pollutant emissions, light winds and shallow vertical atmospheric mixing. This frequently reduces pollutant dispersion, thus causing elevated air pollution levels. Pollutant concentrations in the Air Basin vary with location, season and time of day. Ozone concentrations, for example, tend to be lower along the coast, higher in the near inland valleys and lower in the far inland areas of the Air Basin and adjacent desert.

Certain air pollutants have been recognized to cause notable health problems and consequential damage to the environment either directly or in reaction with other pollutants, due to their presence in elevated concentrations in the atmosphere. Such pollutants have been identified and regulated as part of the overall endeavor to prevent further deterioration and facilitate improvement in air quality. The following pollutants are regulated by the United States Environmental Protection Agency (US EPA) and are subject to emissions control requirements adopted by federal, State and local regulatory agencies. These pollutants are referred to as

"criteria air pollutants" as a result of the specific standards, or criteria, which have been adopted for them. A brief description of the health effects of these criteria air pollutants are provided below.

Ozone (O_3): O_3 is a secondary pollutant formed by the chemical reaction of Volatile Organic Compounds (VOCs) and Nitrogen Oxides (NO_X) under favorable meteorological conditions such as high temperature and stagnation episodes. O_3 concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable. An elevated level of O_3 irritates the lungs and breathing passages, causing coughing and pain in the chest and throat, thereby increasing susceptibility to respiratory infections and reducing the ability to exercise. Effects are more severe in people with asthma and other respiratory ailments. Long-term exposure may lead to scarring of lung tissue and may lower the lung efficiency.

Volatile Organic Compounds (VOCs). VOCs are typically formed from combustion of fuels and/or released through evaporation of organic liquids. These are compounds comprised primarily of atoms of hydrogen and carbon. Internal combustion associated with motor vehicle usage is the major source of hydrocarbons, as are architectural coatings. Emissions of VOCs themselves are not "criteria" pollutants; however, they contribute with NO_X to formation of O_3 and are regulated as O_3 precursor emissions.

Nitrogen Dioxide (NO_2) and Nitrogen Oxides (NO_X): NO_X is a term that refers to a group of compounds containing nitrogen and oxygen. The primary compounds of air quality concern include NO_2 and nitric oxide (NO), which can quickly oxidize in the atmosphere to form NO_2. Ambient air quality standards have been promulgated for NO_2, which is a reddish-brown, reactive gas. The principle form of NO_X produced by combustion is NO, but NO reacts quickly in the atmosphere to form NO_2, creating the mixture of NO and NO_2 referred to as NO_X. Major sources of NO_X emissions include power plants, large industrial facilities, and motor vehicles. Emissions of NO_X are a precursor to the formation of ground-level ozone. NO_2 can potentially irritate the nose and throat, aggravate lung and heart problems, and may increase susceptibility to respiratory infections, especially in people with asthma. According to the California Air Resources Board (CARB), "NO_2 is an oxidizing gas capable of damaging cells lining the respiratory tract. Exposure to NO_2 along with other traffic-related pollutants, is associated with respiratory symptoms, episodes of respiratory illness and impaired lung functioning. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to NO_2 above the level of the current State air quality standard. Clinical studies of human subjects suggest that NO_2 exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children."[8] NO_2 also contributes to the formation of particulate matter. The terms "NO_X" and "NO_2" are sometimes used interchangeably. However, the term "NO_X" is primarily used when discussing emissions, usually from combustion-related activities. The term "NO_2" is primarily used when discussing ambient air quality standards. More specifically, NO_2 is regulated as a criteria air pollutant under the Clean Air Act and subject to the ambient air quality standards, whereas NO_X and NO are not. In cases where the thresholds of significance or impact

8 California Air Resources Board, "Nitrogen Dioxide – Overview," http://www.arb.ca.gov/research/aaqs/caaqs/no2-1/no2-1.htm. Accessed April 2018.

analyses are discussed in the context of NO_X emissions, it is based on the conservative assumption that all NO_X emissions would oxidize in the atmosphere to form NO_2.

Carbon Monoxide (CO): Carbon monoxide is primarily emitted from combustion processes and motor vehicles due to incomplete combustion of fuel. Elevated concentrations of CO weaken the heart's contractions and lower the amount of oxygen carried by the blood. It is especially dangerous for people with chronic heart disease. Inhalation of CO can cause nausea, dizziness, and headaches at moderate concentrations and can be fatal at high concentrations.

Sulfur Dioxide (SO_2): Major sources of SO_2 include power plants, large industrial facilities, diesel vehicles, and oil-burning residential heaters. Emissions of sulfur dioxide aggravate lung diseases, especially bronchitis. It also constricts the breathing passages, especially in asthmatics and people involved in moderate to heavy exercise. Sulfur dioxide potentially causes wheezing, shortness of breath, and coughing. High levels of particulates appear to worsen the effect of sulfur dioxide, and long-term exposures to both pollutants leads to higher rates of respiratory illness.

Particulate Matter (PM10 and PM2.5): The human body naturally prevents the entry of larger particles into the body. However, small particles including fugitive dust, with an aerodynamic diameter equal to or less than ten microns (PM10) and even smaller particles with an aerodynamic diameter equal to or less than 2.5 microns (PM2.5), can enter the body and are trapped in the nose, throat, and upper respiratory tract. These small particulates could potentially aggravate existing heart and lung diseases, change the body's defenses against inhaled materials, and damage lung tissue. The elderly, children, and those with chronic lung or heart disease are most sensitive to PM10 and PM2.5. Lung impairment can persist for two to three weeks after exposure to high levels of particulate matter. Some types of particulates could become toxic after inhalation due to the presence of certain chemicals and their reaction with internal body fluids. The elderly, children, and those with chronic lung or heart disease are most sensitive to PM10 and PM2.5. In children, studies have shown associations between particulate matter exposure and reduced lung function and increased respiratory symptoms and illnesses.[9] Lung impairment can persist for two to three weeks after exposure to high levels of particulate matter. Some types of particulates could become toxic after inhalation due to the presence of certain chemicals and their reaction with internal body fluids.

Lead (Pb): Lead is emitted from industrial facilities and from the sanding or removal of old lead-based paint. Smelting or processing the metal is the primary source of lead emissions, which is primarily a regional pollutant. Lead affects the brain and other parts of the body's nervous system. Exposure to lead in very young children impairs the development of the nervous system, kidneys, and blood forming processes in the body.

9 California Air Resources Board, “Particulate Matter – Overview,” http://www.arb.ca.gov/research/aaqs/caaqs/pm/pm.htm. Accessed April 2018.

1.3.2 Local Air Quality

Existing Ambient Air Quality in the Project Area

The SCAQMD maintains a network of air quality monitoring stations located throughout the Air Basin to measure ambient pollutant concentrations. The monitoring station most representative of the Project Site is the Central Los Angeles Monitoring Station, located at 1630 North Main Street, Los Angeles, CA 90012. Criteria pollutants monitored at this station include O_3, NO_2, CO, SO_2, PM10, PM2.5, and Pb. The most recent data available from the SCAQMD for this monitoring station are from years 2012 to 2016.[10] The pollutant concentration data for these years are summarized in **Table 3**, *Pollutant Standards and Ambient Air Quality Data from Representative Monitoring Station*.

[10] South Coast Air Quality Management District, Historical Data by Year, http://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year. Accessed April 2018.

TABLE 3
POLLUTANT STANDARDS AND AMBIENT AIR QUALITY DATA FROM REPRESENTATIVE MONITORING STATION

Pollutant/Standard [a]	2012	2013	2014	2015	2016
O_3 (1-hour)					
Maximum Concentration (ppm)	0.093	0.081	0.113	0.104	0.103
Days > CAAQS (0.09 ppm)	0	0	3	2	2
O_3 (8-hour)					
Maximum Concentration (ppm)	0.077	0.069	0.094	0.074	0.078
4th High 8-hour Concentration (ppm)	0.068	0.060	0.072	0.072	0.071
Days > CAAQS (0.070 ppm)	2	0	7	6	4
Days > NAAQS (0.070 ppm)	2	0	7	6	4
NO_2 (1-hour)					
Maximum Concentration (ppm)	0.077	0.090	0.082	0.079	0.065
98th Percentile Concentration (ppm)	0.069	0.063	0.067	0.062	0.061
NO_2 (Annual)					
Annual Arithmetic Mean (0.030 ppm)	0.025	0.022	0.022	0.022	20.8
CO (1-hour)					
Maximum Concentration (ppm)	N/A	N/A	3.0	3.2	1.9
CO (8-hour)					
Maximum Concentration (ppm)	1.9	2.0	2.0	1.8	1.4
SO_2 (1-hour)					
Maximum Concentration (ppm)	0.005	0.006	0.005	0.013	0.013
99th Percentile Concentration (ppm)	0.005	0.005	0.004	0.006	0.003
PM10 (24-hour)					
Maximum Concentration (µg/m^3)	80.0	57.0	87.0	88.0	67.0
Est. Days > CAAQS (50 µg/m^3)	4	1	32	26	18
Est. Days > NAAQS (150 µg/m^3)	0	0	0	0	0
PM10 (Annual Average)					
Annual Arithmetic Mean (20 µg/m^3)	30.2	29.5	35.4	33.0	32.4
$PM_{2.5}$ (24-hour)					
Maximum Concentration (µg/m^3)	58.7	43.1	59.9	56.4	44.4
98th Percentile Concentration (µg/m^3)	31.8	29.0	34.5	38.0	27.3
Est. Days > NAAQS (35 µg/m^3)	4	1	6	7	2
$PM_{2.5}$ (Annual)					
Annual Arithmetic Mean (12 µg/m^3)	12.6	12.0	12.4	12.4	11.8
Lead					
Maximum 30-day average (µg/m^3)	0.014	0.013	0.013	0.013	0.016

[a] ppm = parts per million; µg/m^3 = micrograms per cubic meter
[b] Exceptional events occurred in 2014 for PM2.5 and 2011 for PM10. Exceptional events are not considered violations of an ambient air quality standard and are not included in this table.

SOURCES: SCAQMD, 2018.

Sensitive Receptors

Certain population groups, such as children, elderly, and acutely and chronically ill persons (especially those with cardio-respiratory diseases), are considered more sensitive to the potential

effects of air pollution than others. The nearest sensitive receptors are the existing students at Thomas Jefferson High School and residential uses surrounding the school.

All other air quality sensitive receptors are located at greater distances from the Project Site, and would be less impacted by Project emissions. Localized air quality impacts are quantified for the above sensitive receptors.

SECTION 2.0
Regulatory Setting

A number of statutes, regulations, plans and policies have been adopted which address air quality concerns. The Project Site and vicinity is subject to air quality regulations developed and implemented at the federal, State, and local levels. At the federal level, the USEPA is responsible for implementation of the federal Clean Air Act (CAA). Some portions of the CAA (e.g., certain mobile source requirements and other requirements) are implemented directly by the USEPA. Other portions of the CAA (e.g., stationary source requirements) are implemented through delegation of authority to State and local agencies.

2.1 Federal

The federal Clean Air Act (CAA) was the first federal legislation regarding air pollution control. At the federal level, the USEPA is responsible for implementation of certain portions of the CAA including mobile source requirements. Other portions of the CAA, such as stationary source requirements, are implemented by State and local agencies.

Under Title I, Nonattainment Provisions, the CAA establishes federal air quality standards, known as National Ambient Air Quality Standards (NAAQS), for the following criteria pollutants O_3, NO_2, CO, SO_2, PM10, PM2.5, and Pb. It also specifies future dates for achieving compliance with the NAAQS and mandates that states submit and implement a State Implementation Plan (SIP) for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards would be met. The 1990 amendments to the CAA identify specific emission reduction goals for basins not meeting the NAAQS. These amendments require both a demonstration of reasonable further progress toward attainment and incorporation of additional sanctions for failure to attain or to meet interim milestones. **Table 4**, *Ambient Air Quality Standards*, shows the NAAQS currently in effect for each criteria pollutant.

Title II of the CAA, Mobile Source Provisions, pertains to mobile sources such as cars, trucks, buses, and planes. Reformulated gasoline, automobile pollution control devices, and vapor recovery nozzles on gas pumps are a few of the mechanisms the USEPA uses to regulate mobile air emission sources. The provisions of Title II have resulted in tailpipe emission standards for vehicles, which have strengthened in recent years to improve air quality. For example, the standards for NO_X emissions have lowered substantially and the specification requirements for cleaner burning gasoline are more stringent.

TABLE 4
AMBIENT AIR QUALITY STANDARDS

Pollutant	Average Time	California Standards [a]		National Standards [b]		
		Concentration [c]	Method [d]	Primary [c,e]	Secondary [c,f]	Method [g]
O_3 [h]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
NO_2 [i]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemi-luminescence	100 ppb (188 µg/m^3)	None	Gas Phase Chemi-luminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		53 ppb (100 µg/m^3)	Same as Primary Standard	
CO	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	None	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10mg/m^3)		9 ppm (10 mg/m^3)		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
SO_2 [j]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)[9]
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[j]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) [j]	—	
PM10 [k]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
PM2.5 [k]	24 Hour	No Separate State Standard		35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3 [k]	15 µg/m^3	
Lead [l,m]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[m]	Same as Primary Standard	
	Rolling 3-Month Average [m]	--		0.15 µg/m^3		

Pollutant	Average Time	California Standards [a]		National Standards [b]		
		Concentration [c]	Method [d]	Primary [c,e]	Secondary [c,f]	Method [g]
Visibility Reducing Particles [n]	8 Hour	Extinction coefficient of 0.23 per kilometer — visibility of ten miles or more (0.07 — 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70 percent. Method: Beta Attenuation and Transmittance through Filter Tape.		**No Federal Standards**		
Sulfates (SO_4)	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride [l]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

[a] California standards for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, PM10, PM2.5, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] Any equivalent procedure which can be shown to the satisfaction of CARB to give equivalent results at or near the level of the air quality standard may be used.

[e] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

[f] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[g] Reference method as described by the USEPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the USEPA.

[h] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[i] To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb.

[j] On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated non-attainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[k] On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3.

[l] CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[m] The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m^3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated non-attainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

[n] In 1989, CARB converted both the general Statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the Statewide and Lake Tahoe Air Basin standards, respectively.

SOURCE: California Air Resources Board, Ambient Air Quality Standards (5/4/16), http://www.arb.ca.gov/research/aaqs/aaqs2.pdf. Accessed April 2018.

The proposed Project is located within the Air Basin which is an area designated as non-attainment because it does not currently meet NAAQS for certain pollutants regulated under the CAA. The Air Basin previously exceeded the NAAQS for PM10, but has met the NAAQS at all monitoring stations and the USEPA approved the request for re-designation to attainment effective July 26, 2013.[11] The Air Basin does not meet the NAAQS for O_3 and PM2.5 and is classified as being in non-attainment for these pollutants. The Los Angeles County portion of the Air Basin is designated as non-attainment for the lead NAAQS; however, this was due to localized emissions from two previously operating lead-acid battery recycling facilities located in the City of Vernon and the City of Industry.[12] These facilities are no longer operating and would not affect the Project Site and there are no other lead-acid battery recycling facilities in Los Angeles County. A light industrial use is located to the east of the Project Site along Compton Avenue. This use is a food production company that prepares meat and meat products and has air quality permits from the SCAQMD. According to the SCAQMD Facility Information (FIND) online database, there are no notices of violations (NOVs) or notices to comply (NOCs) at this location. **Table 5**, *South Coast Air Basin Attainment Status (Los Angeles County)*, lists the criteria pollutants and their attainment status in the Los Angeles County portion of the Air Basin.

TABLE 5
SOUTH COAST AIR BASIN ATTAINMENT STATUS (LOS ANGELES COUNTY)

Pollutant	National Standards	California Standards
Ozone (1-hour standard)	N/A [a]	Non-attainment
Ozone (8-hour standard)	Non-attainment – Extreme	Non-Attainment
Carbon Monoxide	Attainment (Maintenance)	Attainment
Nitrogen Dioxide	Attainment (Maintenance)	Attainment
Sulfur Dioxide	Attainment	Attainment
PM10	Attainment (Maintenance)	Non-attainment
PM2.5	Non-attainment -Serious	Non-attainment
Lead	Non-attainment (Partial) [b]	Attainment
Sulfates	N/A	Attainment
Hydrogen Sulfide	N/A	Attainment
Vinyl Chloride [c]	N/A	Attainment

N/A = not applicable

[a] The NAAQS for 1-hour ozone was revoked on June 15, 2005, for all areas except Early Action Compact areas.

[b] Partial Nonattainment designation – Los Angeles County portion of the Air Basin only for near-source monitors.

[c] In 1990, the California Air Resources Board identified vinyl chloride as a toxic air contaminant and determined that it does not have an identifiable threshold. Therefore, the California Air Resources Board does not monitor or make status designations for this pollutant.

SOURCE: United States Environmental Protection Agency, The Green Book Non-Attainment Areas for Criteria Pollutants, https://www.epa.gov/green-book. Accessed March 2017; California Air Resources Board, Area Designations Maps/State and National, http://www.arb.ca.gov/desig/adm/adm.htm. Accessed March 2017.

[11] Federal Register, Vol. 78, No. 123, June 26, 2013, 38223-38226.

[12] South Coast Air Quality Management District, Board Meeting, Agenda No. 30, Adopt the 2012 Lead State Implementation Plan for Los Angeles County, May 4, 2012. http://www3.aqmd.gov/hb/attachments/2011-2015/2012May/2012-May4-030.pdf. Accessed April 2018.

2.2 State

2.2.1 California Clean Air Act

The California Clean Air Act (CCAA) requires all areas of the State to achieve and maintain the California Ambient Air Quality Standards (CAAQS) by the earliest practical date. The CAAQS apply to the same criteria pollutants as the CAA but also include State-identified criteria pollutants, which include sulfates, visibility-reducing particles, hydrogen sulfide, and vinyl chloride. The California Air Resources Board (CARB) has primary responsibility for ensuring implementation of the CCAA, responding to the CAA planning requirements applicable to the State, and regulating emissions from motor vehicles and consumer products within the State. Table 5 shows the CAAQS currently in effect for each of the criteria pollutants as well as the other pollutants recognized by the State. As shown in Table 5, the CAAQS include more stringent standards than the NAAQS for most of the criteria air pollutants.

Health and Safety Code Section 39607(e) requires CARB to establish and periodically review area designation criteria. Table 6 provides a summary of the attainment status of the Los Angeles County portion of the Air Basin with respect to the State standards. The Air Basin is designated as attainment for the California standards for sulfates, hydrogen sulfide, and vinyl chloride.

2.2.2 California Air Resources Board Air Quality and Land Use Handbook

CARB published an *Air Quality and Land Use Handbook* to serve as a general guide for considering impacts to sensitive receptors from facilities that emit TAC emissions. The recommendations provided therein are voluntary and do not constitute a requirement or mandate for either land use agencies or local air districts. The goal of the guidance document is to protect sensitive receptors, such as children, the elderly, acutely ill, and chronically ill persons, from exposure to TAC emissions. Some examples of CARB's siting recommendations include the following: (1) avoid siting sensitive receptors within 500 feet of a freeway, urban road with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day; (2) avoid siting sensitive receptors within 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units per day, or where transport refrigeration unit operations exceed 300 hours per week); (3) avoid siting sensitive receptors within 300 feet of any dry cleaning operation using perchloroethylene and within 500 feet of operations with two or more machines; and (4) avoid siting sensitive receptors within 300 feet of a large gasoline dispensing facility (defined as a facility with a throughput of 3.6 million gallons per year or greater) or 50 feet of a typical gasoline dispensing facility. The Project consists of modification and upgrades within an existing school site and would not result in an increase in student capacity. The Project would not introduce a new sensitive receptor within the screening distances of these land uses, as defined.

2.2.3 California Air Resources Board On-Road and Off-Road Vehicle Rules

In 2004, CARB adopted an Airborne Toxic Control Measure (ATCM) to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter (DPM) and other vehicle emissions (Title 13 California Code of Regulations [CCR], Section 2485). The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given time.

In 2008 CARB approved the Truck and Bus regulation to reduce NO_X, PM10, and PM2.5 emissions from existing diesel vehicles operating in California (13 CCR, Section 2025). The requirements were amended in December 2010 and apply to nearly all diesel fueled trucks and busses with a gross vehicle weight rating greater than 14,000 pounds. For the largest trucks in the fleet, those with a gross vehicle weight rating greater than 26,000 pounds, there are two methods to comply with the requirements. The first way is for the fleet owner to retrofit or replace engines, starting with the oldest engine model year, to meet 2010 engine standards, or better. This is phased over 8 years, starting in 2015 and would be fully implemented by 2023, meaning that all trucks operating in the State subject to this option would meet or exceed the 2010 engine emission standards for NO_X and particulate matter by 2023. The second option, if chosen, requires fleet owners, starting in 2012, to retrofit a portion of their fleet with diesel particulate filters achieving at least 85 percent removal efficiency, so that by January 1, 2016 their entire fleet is equipped with diesel particulate filters. However, diesel particulate filters do not typically lower NO_X emissions. Thus, fleet owners choosing the second option must still comply with the 2010 engine emission standards for their trucks and busses by 2020.

In addition to limiting exhaust from idling trucks, CARB recently promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower (hp) such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation adopted by the CARB on July 26, 2007, aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission controlled models (13 CCR, Section 2449). Implementation is staggered based on fleet size (which is the total of all off-road horsepower under common ownership or control), with the largest fleets to begin compliance by January 1, 2014. Each fleet must demonstrate compliance through one of two methods. The first option is to calculate and maintain fleet average emissions targets, which encourages the retirement or repowering of older equipment and rewards the introduction of newer cleaner units into the fleet. The second option is to meet the Best Available Control Technology (BACT) requirements by turning over or installing Verified Diesel Emission Control Strategies (VDECS) on a certain percentage of its total fleet horsepower. The compliance schedule requires that BACT turn overs or retrofits (VDECS installation) be fully implemented by 2023 in all equipment in large and medium fleets and across 100 percent of small fleets by 2028.

2.3 Regional

2.3.1 South Coast Air Quality Management District

The SCAQMD has jurisdiction over an area of approximately 10,743 square miles. This area includes all of Orange County, Los Angeles County except for the Antelope Valley, the non-desert portion of western San Bernardino County, and the western and Coachella Valley portions of Riverside County. The Air Basin is a sub-region of the SCAQMD jurisdiction. While air quality in this area has improved, the Air Basin requires continued diligence to meet air quality standards.

Air Quality Management Plan

The SCAQMD has adopted a series of Air Quality Management Plans (AQMP) to meet the CAAQS and NAAQS. The SCAQMD and CARB have adopted the 2016 AQMP, which incorporates scientific and technological information and planning assumptions regarding air quality, including the Southern California Association of Governments (SCAG) 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), and emission inventory methodologies for various source categories.[13] The 2016 AQMP was adopted by the AQMD Governing Board on March 3, 2017.[14]

The purpose of the 2016 AQMP is to bring the Air Basin into attainment with NAAQS for 24-hour PM2.5. SCAQMD has since determined that this deadline was impractical due to drought conditions in the region.[15] In 2016, USEPA approved reclassification of the Air Basin from "moderate" to "serious" non-attainment for the 24-hour PM2.5 standard, which has a new attainment deadline of December 31, 2019. The 2016 AQMP demonstrates that the 24-hour standard will be met by 2019 with no additional reductions beyond already adopted and implemented measures. The 2016 AQMP also intensifies the scope and pace of continued air quality improvement efforts toward meeting the 2024 and 2032 8-hour ozone standard deadline with new measures designed to reduce reliance on the CAA Section 182(e)(5) long-term measures for NO_X and VOC reductions. SCAQMD expects exposure reductions to be achieved through implementation of new and advanced control technologies as well as improvement of existing technologies.

The control measures in the 2016 AQMP consist 8-hour ozone control measures and PM2.5 control measures designed to achieve the ozone and PM2.5 NAAQS by statutory deadlines. The AQMP includes ten $PM_{2.5}$ control measures, 15 stationary source 8-hour ozone measures and 15

[13] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp. Accessed April 2018.

[14] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp. Accessed April 2018.

[15] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp. Accessed April 2018.

early action measures for mobile sources. In general, the SCAQMD's control strategy for stationary and mobile sources is based on the following approaches: (1) available cleaner technologies; (2) best management practices; (3) incentive programs; (4) development and implementation of near-zero technologies and vehicles and control methods; and (5) emission reductions from mobile sources. Control strategies in the AQMP with potential applicability to short-term emissions from construction activities associated with the Project include strategies denoted in the AQMP as MOB-08 and MOB-10, which are intended to reduce emissions from on-road and off-road heavy-duty vehicles and equipment. Descriptions of measures MOB-08 and MOB-10 are provided below:

MOB-08 – Accelerated Retirement of Older On-Road Heavy-Duty Vehicles: This proposed measure seeks to replace heavy-duty vehicles with newer or new vehicles that at a minimum, meet the 2010 on-road heavy-duty NO_X exhaust emissions standard of 0.2 grams per brake horsepower-hour (g/bhp-hr). Given that exceedances of the 24-hour $PM_{2.5}$ air quality standard occur in the State, priority will be placed on replacing older diesel trucks that operate primarily at the warehouse and distribution centers. Funding assistance of up to $50,000 per vehicle is proposed and the level of funding will depend upon the NO_X emissions certification level of the replacement vehicle. In addition, a provision similar to the Surplus Off-Road Option for NO_X (SOON) provision of the Statewide In-Use Off-Road Fleet Vehicle Regulation will be sought to ensure that additional NO_X emission reduction benefits are achieved.

MOB-10 – Extension of the SOON Provision for Construction/Industrial Equipment: This measure seeks to continue the (SOON) provision of the Statewide In-Use Off-Road Fleet Vehicle Regulation beyond 2023 through the 2031 timeframe. To implement the SOON program in this timeframe, funding of at least $10 million per year would be sought to help fund the repower or replacement of older Tier 0 and Tier 1 equipment, with reductions that are considered surplus to the Statewide regulation with Tier 4 or cleaner engines.

The SCAQMD released the Draft 2016 AQMP on June 30, 2016 for public review and comment. A revised Draft 2016 AQMP was released in October 2016 and the SCAQMD Governing Board adopted the 2016 AQMP on March 3, 2017.[16] CARB approved the 2016 AQMP on March 23, 2017. USEPA approval is pending, but is a necessary requirement before the 2016 AQMP can be incorporated into the State Implementation Plan. Key elements of the 2016 AQMP include implementing fair-share emissions reductions strategies at the federal, State, and local levels; establishing partnerships, funding, and incentives to accelerate deployment of zero and near-zero-emissions technologies; and taking credit from co-benefits from greenhouse gas, energy, transportation and other planning efforts.[17] The strategies included in the 2016 AQMP are

[16] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp. Accessed April 2018.

[17] South Coast Air Quality Management District, Air Quality Management Plan (AQMP), Final 2016 AQMP, http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/final-2016-aqmp. Accessed April 2018.

intended to demonstrate attainment of the NAAQS for the federal non-attainment pollutants O_3 and PM2.5.[18] Provisions of the 2016 AQMP do not appear to affect the proposed Project.

Regulations and Rules

Several SCAQMD rules adopted to implement portions of the AQMP may apply to construction or operation of the Project. The Project may be subject to the following SCAQMD rules and regulations:

Regulation IV – Prohibitions: This regulation sets forth the restrictions for visible emissions, odor nuisance, fugitive dust, various air emissions, fuel contaminants, start-up/shutdown exemptions and breakdown events. The following is a list of rules which may apply to the Project:

- **Rule 401 – Visible Emissions:** This rule states that a person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart or of such opacity as to obscure an observer's view.

- **Rule 402 – Nuisance:** This rule states that a person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

- **Rule 403 – Fugitive Dust:** This rule requires projects to prevent, reduce or mitigate fugitive dust emissions from a site. Rule 403 restricts visible fugitive dust to the Project property line, restricts the net PM10 emissions to less than 50 micrograms per cubic meter ($\mu g/m^3$) and restricts the tracking out of bulk materials onto public roads. Additionally, projects must utilize one or more of the best available control measures (identified in the tables within the rule). Mitigation measures may include adding freeboard to haul vehicles, covering loose material on haul vehicles, watering, using chemical stabilizers and/or ceasing all activities. Finally, a contingency plan may be required if so determined by the USEPA.

Regulation XI – Source Specific Standards: Regulation XI sets emissions standards for different specific sources. The following is a list of rules which may apply to the Project:

- **Rule 1113 – Architectural Coatings:** This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

[18] South Coast Air Quality Management District, NAAQS/CAAQS and Attainment Status for South Coast Air Basin, (2016), http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2. Accessed April 2018.

- **Rule 1121 – Control of Nitrogen Oxides from Residential Type, Natural Gas-Fired Water Heaters:** This rule specifies NO_X emission limits for natural gas-fired water heaters, with heat input rates less than 75,000 British thermal units (BTUs) per hour.

- **Rule 1146.2 – Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers and Process Heaters:** This rule requires manufacturers, distributors, retailers, refurbishers, installers, and operators of new and existing units to reduce NO_X emissions from natural gas-fired water heaters, boilers, and process heaters as defined in this rule.

- **Rule 1186 – PM10 Emissions from Paved and Unpaved Roads, and Livestock Operations:** This rule applies to owners and operators of paved and unpaved roads and livestock operations. The rule is intended to reduce PM10 emissions by requiring the cleanup of material deposited onto paved roads, use of certified street sweeping equipment, and treatment of high-use unpaved roads (see also **Rule 403).**

Regulation XIV – Toxics and Other Non-Criteria Pollutants: Regulation XIV sets requirements for new permit units, relocations, or modifications to existing permit units which emit toxic air contaminants or other non-criteria pollutants. The following is a list of rules which may apply to the Project:

- **Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities:** This rule requires owners and operators of any demolition or renovation activity and the associated disturbance of asbestos-containing materials, any asbestos storage facility, or any active waste disposal site to implement work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials.

Air Quality Guidance Documents

The SCAQMD published a *CEQA Air Quality Handbook* (the Handbook) to provide local governments with guidance for analyzing and mitigating project-specific air quality impacts. The Handbook provides standards, methodologies, and procedures for conducting air quality analyses in CEQA documents and was used extensively in the preparation of this analysis. However, the SCAQMD is currently in the process of replacing the Handbook with the *Air Quality Analysis Guidance Handbook*. While this process is underway, the SCAQMD recommends using CalEEMod or another approved model to calculate emissions from land use projects.[19]

In June 2003, the SCAQMD published a document called the *Localized Significance Threshold Methodology* that is intended to provide voluntary guidance for lead agencies in analyzing localized air quality impacts from projects.[20] The document was revised in July 2008 to

[19] South Coast Air Quality Management District, CEQA Air Quality Handbook (1993), http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). Accessed April 2018.

[20] South Coast Air Quality Management District, Localized Significance Thresholds, (2003, revised 2008), http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed April 2018.

incorporate additional guidance regarding PM2.5 emissions.[21] The *Localized Significance Threshold Methodology* was also used in the preparation of this assessment.

The SCAQMD has also adopted land use planning guidance in the May 2005 *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*[22] which, like the CARB Handbook, also considers impacts to sensitive receptors from facilities that emit TACs. SCAQMD's distance recommendations are the same as those provided by CARB (e.g., the same siting criteria for distribution centers and dry cleaning facilities). The SCAQMD's document introduces land use-related policies that rely on design and distance parameters to manage potential health risk. The guidance consists of voluntary initiatives recommended for consideration by local planning agencies.

2.3.2 Regional Comprehensive Plan and Guide and Congestion Management Plan

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the federally designated metropolitan planning organization (MPO) for the majority of the southern California region and is the largest MPO in the nation. With regard to air quality planning, SCAG has prepared the Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP), which address regional development and growth forecasts and form the basis for the land use and transportation control portions of the AQMP and are utilized in the preparation of the air quality forecasts and consistency analysis included in the AQMP. The RTP, RTIP, and AQMP are based on projections originating within local jurisdictions.

2.4 Local

2.4.1 City of Los Angeles

Local jurisdictions, such as the City of Los Angeles, have the authority and responsibility to reduce air pollution through its land use decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City's General Plan Air Quality Element includes City-wide goals, objectives, and policies related to air quality resources. A number of these goals, objectives, and policies are relevant to the proposed Project and are related to traffic mobility, minimizing particulate emissions from construction activities, discouraging single-occupancy vehicle trips, managing traffic congestion during peak hours, and increasing energy efficiency in City facilities and private developments.

[21] South Coast Air Quality Management District, Final Methodology to Calculate Particulate Matter (PM)2.5 and PM2.5 Significance Thresholds, (2006), http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/pm-2-5-significance-thresholds-and-calculation-methodology. Accessed April 2018.

[22] South Coast Air Quality Management District, Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning, (May 2005), http://www.aqmd.gov/prdas/aqguide/aqguide.html. Accessed April 2018.

The City of Los Angeles is also responsible for the implementation of transportation control measures as outlined in the AQMP. Through capital improvement programs, local governments can fund infrastructure that contributes to improved air quality by requiring such improvements as bus turnouts as appropriate, installation of energy-efficient streetlights, and synchronization of traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits and monitors and enforces implementation of such mitigation measures.

The City of Los Angeles has incorporated the California Green Building (CALGreen) Standards Code, with amendments in its 2017 Los Angeles Green Building Code. The City's ordinance requires applicable Projects to comply with specified provisions to reduce energy consumption.

2.4.2 Los Angeles Unified School District PEIR

The PEIR includes Standard Conditions of Approval (SCs) for reducing impacts on air quality in areas where future projects would be implemented under the SUP. Applicable SCs related to Project air quality impacts are provided in **Table 6**, *Air Quality Standard Conditions of Approval*, below.

According to the PEIR, projects implemented under the SUP are anticipated to have less than significant and potentially significant impacts on air quality within the LAUSD service area. However, the Project-specific analysis provided below concludes that implementation of the Thomas Jefferson High School Comprehensive Modernization Project would have less than significant impacts on the surrounding community and the Project Site.

TABLE 6
AIR QUALITY STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-AQ-1	**OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA)** This document includes guidance on HRA protocols for permitted, non-permitted, and mobile sources that might reasonably be anticipated to emit hazardous air emissions and result in potential long-term and short-term health impacts to student and staff at the school site
SC-AQ-2	LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment.
SC-AQ-3	LAUSD's construction contractor shall: • Maintain slow speeds with all vehicles. • Load impacted soil directly into transportation trucks to minimize soil handling. • Water/mist soil as it is being excavated and loaded onto the transportation trucks. • Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site. • Minimize soil drop height into transportation trucks or stockpiles during dumping. • During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks. • Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed. • Place stockpiled soil on polyethylene sheeting and cover with similar material.

	• Place stockpiled soil in areas shielded from prevailing winds.
SC-AQ-4	LAUSD shall prepare an air quality assessment: If site-specific review of a school construction Project identifies potentially significant adverse regional and localized construction air quality impacts, then LAUSD shall implement all feasible measures to reduce air emissions below the South Coast Air Quality Management District's (SCAQMD) regional and localized significance thresholds. LAUSD shall mandate that construction bid contracts include the measures identified in the air quality assessment. Measures shall reduce construction emissions during high-emission construction phases from vehicles and other fuel driven construction engines, activities that generate fugitive dust, and surface coating operations. Specific air emission reduction measures include, but are not limited to, the following: Exhaust Emissions • Schedule construction activities that affect traffic flow to off-peak hours (e.g. between 10:00 AM and 3:00 PM). • Consolidate truck deliveries and/or limit the number of haul trips per day. • Route construction trucks off congested streets. • Employ high pressure fuel injection systems or engine timing retardation. • Utilize ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment. • Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower. • Restrict non-essential diesel engine idle time, to not more than five consecutive minutes. • Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction. • Utilize electric or alternatively fueled equipment, if feasible. • Utilize construction equipment with the minimum practical engine size. • Utilize low-emission on-road construction fleet vehicles. • Ensure construction equipment is properly serviced and maintained to the manufacturer's standards. Fugitive Dust • Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for ten days or more). • Replace ground cover in disturbed areas as quickly as possible. • Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water). • Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip. • Pave construction roads that have a traffic volume of more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles. • Pave all construction access roads for at least 100 feet from the main road to the Project Site. • Water the disturbed areas of the active construction site at least three times per day, except during periods of rainfall. • Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a five percent or greater silt content. • Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph). • Apply water at least three times daily, except during periods of rainfall, to all unpaved road surfaces. • Limit traffic speeds on unpaved road to 15 mph or less. • Prohibit high emission causing fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD. • Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials. • Limit the amount of daily soil and/or demolition debris loaded and hauled per day.

	General Construction • Utilize ultra-low VOC or zero-VOC surface coatings. • Phase construction activities to minimize maximum daily emissions. • Configure construction parking to minimize traffic interference. • Provide temporary traffic control during construction activities to improve traffic flow (e.g., flag person). • Develop a trip reduction plan for construction employees. • Implement a shuttle service to and from retail services and food establishments during lunch hours. • Increase distance between emission sources to reduce near-field emission impacts. • Require construction contractors to document compliance with the identified mitigation measures.
SC-AQ-5	LAUSD shall encourage ride-sharing programs for students and teachers as well as maintain fleet vehicles such as school buses, maintenance vehicles, and other service fleet vehicles in good condition in order to prevent significant increases in air pollutant emissions created by operation of a new school.

SECTION 3.0
Significance Thresholds

Pursuant to Appendix G of the State *CEQA Guidelines*, the Project would result in a significant impact related to air quality if it would:

a) Conflict with or obstruct the implementation of the applicable air quality plan;

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation;

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is nonattainment under an applicable federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);

d) Expose sensitive receptors to substantial pollutant concentrations; or

e) Create objectionable odors affecting a substantial number of people.

Pursuant to the State CEQA Guidelines (Section 15064.7), a lead agency may consider using, when available, the significance criteria established by the applicable air quality management district or air pollution control district when making determinations of significance. The Project would be under the SCAQMD's jurisdiction. SCAQMD has established air quality significance criteria in its CEQA Air Quality Handbook. These criteria are based on the recognition that the Air Basin is a distinct geographic area with a critical air pollution problem for which ambient air quality standards have been promulgated to protect public health.[23] The potential air quality impacts of the Project are, therefore, evaluated according to the most recent criteria adopted by the SCAQMD in connection with its CEQA Air Quality Handbook, Air Quality Analysis Guidance Handbook, and subsequent SCAQMD guidance as discussed previously.[24]

3.1 Construction Emissions

The SCAQMD has established numerical emission indicators of significance for construction. The numerical emission indicators are based on the recognition that the Air Basin is a distinct geographic area with a critical air pollution problem for which ambient air quality standards have been promulgated to protect public health.[25] Given that construction impacts are temporary and

[23] South Coast Air Quality Management District, CEQA Air Quality Handbook (1993) 6-2.

[24] While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from commercial and residential land use Projects such as the Project. As a result, lead emissions are not further evaluated in this Draft EIR.

[25] South Coast Air Quality Management District, CEQA Air Quality Handbook (1993) 6-2.

limited to the construction phase, the SCAQMD has established numeric indicators of significance specific to construction activity. Based on the indicators in the SCAQMD CEQA Air Quality Handbook, the Project would potentially cause or contribute to an exceedance of an ambient air quality standard if the following would occur:

- Regional construction emissions from both direct and indirect sources would exceed any of the following SCAQMD prescribed daily regional emissions criteria:[26]
  - 75 pounds a day for VOC;
  - 100 pounds per day for NO_X;
  - 550 pounds per day for CO;
  - 150 pounds per day for SO_2;
  - 150 pounds per day for PM10; or
  - 55 pounds per day for PM2.5.

In addition, the SCAQMD has developed a methodology to assess the potential for localized emissions to cause an exceedance of applicable ambient air quality standards or ambient concentration limits. Impacts would be considered significant if the following would occur:

- Maximum daily localized emissions of NO_X and/or CO during construction are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project Site greater than the most stringent ambient air quality standards for NO_2 and/or CO.[27]
- Maximum daily localized emissions of PM10 and/or PM2.5 during construction are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project Site to exceed 10.4 $\mu g/m^3$ over 24 hours (SCAQMD Rule 403 control requirement).

As discussed previously under Methodology, the SCAQMD has established screening criteria that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance thresholds and therefore not cause or contribute to an exceedance of the applicable ambient air quality standards or ambient concentration limits without Project-specific dispersion modeling. This analysis uses the screening criteria to evaluate impacts from localized emissions.

3.2 Operational Emissions

The SCAQMD has established numerical emission indicators of significance for operations. The numerical emission indicators are based on the recognition that the Air Basin is a distinct

[26] South Coast Air Quality Management District, SCAQMD Air Quality Significance Thresholds, (March 2015), http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed April 2018.

[27] South Coast Air Quality Management District, Final Localized Significance Threshold Methodology, (2008). Available: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed April 2018.

geographic area with a critical air pollution problem for which ambient air quality standards have been promulgated to protect public health.[28] The SCAQMD has established numeric indicators of significance in part based on Section 182(e) of the Clean Air Act which identifies 10 tons per year of VOC as a significance level for stationary source emissions in extreme non-attainment areas for ozone.[29] The Air Basin is designated as extreme non-attainment for ozone. The SCAQMD converted this significance level to pounds per day for ozone precursor emissions (10 tons per year × 2,000 pounds per ton ÷ 365 days per year = 55 pounds per day). The numeric indicators for other pollutants are also based on federal stationary source significance levels. Based on the indicators in the SCAQMD CEQA Air Quality Handbook, the Project would potentially cause or contribute to an exceedance of an ambient air quality standard if the following would occur:

- Regional operational emissions exceed any of the following SCAQMD prescribed daily regional emissions criteria:[30]
  - 55 pounds a day for VOC;
  - 55 pounds per day for NOX;
  - 550 pounds per day for CO;
  - 150 pounds per day for SO2;
  - 150 pounds per day for PM10; or
  - 55 pounds per day for PM2.5.

In addition, the SCAQMD has developed a methodology to assess the potential for localized emissions to cause an exceedance of applicable ambient air quality standards. Impacts would be considered significant if the following were to occur:

- Maximum daily localized emissions of NO_X and/or CO during operation are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project Site greater than the most stringent ambient air quality standards for NO_2 and/or CO.[31]
- Maximum daily localized emissions of PM10 and/or PM2.5 during operation are greater than the applicable localized significance thresholds, resulting in predicted ambient concentrations in the vicinity of the Project Site to exceed 2.5 $\mu g/m^3$ over 24 hours (SCAQMD Rule 1303 allowable change in concentration).

28 South Coast Air Quality Management District, CEQA Air Quality Handbook (1993) 6-2.

29 South Coast Air Quality Management District, CEQA Air Quality Handbook (1993) 6-1.

30 South Coast Air Quality Management District, SCAQMD Air Quality Significance Thresholds, (March 2015), http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed April 2018.

31 South Coast Air Quality Management District, SCAQMD Air Quality Significance Thresholds, (March 2015), http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed April 2018.

With respect to SUP modernization projects, the PEIR states that operational activities would be less than significant, as these projects would not increase capacity to existing schools and net project emissions would be minimal. Additionally, overall District enrollment is forecast to decrease over the next ten years and operational emissions are not expected to increase in the long-term.[32]

The proposed Project would replace or upgrade facilities on the campus of Thomas Jefferson High School, but it would not increase the number of students or faculty at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating and other onsite sources. Therefore, there would be no net increase in regional emissions of any criteria pollutant, and the impact would be less than significant. Additionally, the District is required to comply with all applicable SCs, and will implement SC-AQ-5 to further reduce Project-related operational impacts.

3.3 Carbon Monoxide Hotspots

With respect to the formation of CO hotspots, the Project would be considered significant if the following would occur:

- The Project would cause or contribute to an exceedance of the CAAQS one-hour or eight-hour CO standards of 20 or 9.0 parts per million (ppm), respectively.

3.4 Toxic Air Contaminants

Based on criteria set forth by the SCAQMD, the Project would expose sensitive receptors to substantial concentrations of toxic air contaminants if any of the following were to occur:[33]

- The Project would emit carcinogenic materials or TACs that exceed the maximum incremental cancer risk of ten in one million or a cancer burden greater than 0.5 excess cancer cases (in areas greater than or equal to 1 in 1 million) or an acute or chronic hazard index of 1.0.

As discussed previously, construction impacts from TACs are evaluated quantitatively in a refined Health Risk Assessment (HRA) due to the use of heavy-duty, diesel equipment, and removal of contaminated soil from various locations across the Project Site. For operations, the impacts are analyzed qualitatively due to the limited and minimal sources of TACs associated with operation of the proposed land uses.

[32] Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015

[33] South Coast Air Quality Management District, CEQA Air Quality Handbook, Chapter 6 (Determining the Air Quality Significance of a Project) and Chapter 10 (Assessing Toxic Air Pollutants), (1993); SCAQMD Air Quality Significance Thresholds, (March 2011), http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed April 2018.

3.5 Odors

Based on the criteria in Appendix G of the State *CEQA Guidelines*, the Project would be considered potentially significant for odors if the Project would create objectionable odors affecting a substantial number of people.

SECTION 4.0
Methodology

The methodology to evaluate potential impacts to regional and local air quality that may result from the construction and long-term operations of the proposed Project is conducted as follows. Detailed modeling calculations are provided in Appendix A of this report.

4.1 Consistency with Air Quality Plan

The SCAQMD is required, pursuant to the CAA, to reduce emissions of criteria pollutants for which the Air Basin is in non-attainment of the NAAQS (e.g., O_3 and PM2.5). The SCAQMD's AQMP contains a comprehensive list of pollution control strategies directed at reducing emissions and achieving the NAAQS. These strategies are developed, in part, based on regional growth projections prepared by the SCAG. As part of its air quality planning, SCAG has prepared the Regional Comprehensive Plan and Guide and the RTP/SCS, which provide the basis for the land use and transportation components of the AQMP and are used in the preparation of the air quality forecasts and the consistency analysis included in the AQMP. Both the Regional Comprehensive Plan and AQMP are based, in part, on projections originating with county and city general plans.

The 2016 AQMP was prepared to accommodate growth, reduce the high levels of pollutants within the areas under the jurisdiction of SCAQMD, return clean air to the region, and minimize the impact on the economy. Projects that are consistent with the assumptions used in the AQMP do not interfere with attainment because the growth is included in the projections utilized in the formulation of the AQMP. Thus, projects, uses, and activities that are consistent with the applicable growth projections and control strategies used in the development of the AQMP would not jeopardize attainment of the air quality levels identified in the AQMP, even if they exceed the SCAQMD's numeric indicators

4.2 Construction Emissions

Construction of the proposed Project has the potential to generate temporary criteria pollutant emissions through the use of heavy-duty construction equipment, such as excavators and forklifts, and through vehicle trips generated from worker trips and haul trucks traveling to and from the Project Site. In addition, fugitive dust emissions would result from demolition and various soil-handling activities. Mobile source emissions, primarily NO_X, would result from the use of construction equipment such as dozers and loaders. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of construction activity, and prevailing weather conditions. The assessment of construction air quality impacts considers each of these potential sources.

Daily regional emissions during construction are forecasted by assuming a conservative estimate of construction activities (i.e., assuming all construction occurs at the earliest feasible date) and applying the mobile source and fugitive dust emissions factors. The emissions are estimated using the CalEEMod (Version 2016.3.2) software, an emissions inventory software program recommended by the SCAQMD. CalEEMod is based on outputs from OFFROAD and EMFAC, which are emissions estimation models developed by CARB and used to calculate emissions from construction activities, including on-and off-road vehicles. The input values used in the CalEEMod modeling analysis were adjusted based on construction equipment and schedule information from similar land use development projects in the LAUSD. These values were then applied to the construction phasing assumptions used in the criteria pollutant analysis to generate criteria pollutant emissions values for each construction activity. Detailed construction equipment lists, construction scheduling, and emissions calculations are provided in Appendix A.

Construction of the proposed Project was assumed to begin in 2019. Construction may commence at a later date than that analyzed in this air quality impact analysis. If this occurs, construction impacts would be less than those analyzed herein, because a more energy-efficient and cleaner burning construction equipment fleet mix would be expected in the future, pursuant to State regulations that require construction equipment fleet operators to phase-in less polluting heavy-duty equipment. As a result, should the proposed Project commence construction at a later date, air quality impacts would be less than the impacts disclosed herein. Subphases of construction would include soil removal, demolition, grading, building construction, paving, and architectural coating. Emissions from these activities are estimated by construction phase. The maximum daily emissions are predicted values for the worst-case day and do not necessarily represent the emissions that would occur for every day of Project construction. The maximum daily emissions are compared to the SCAQMD daily regional numeric indicators.

4.3 Operational Emissions

As previously discussed, the proposed Project would modify and renovate an existing school and the Project operation would result in the same uses after renovations. Because operation of the Project would not entail growth, the Project would not generate any new trips, and operation of the Project would not be expected to generate criteria pollutant emissions through vehicle trips traveling to and from the Project Site. In addition, facilities would be upgraded to replace old, energy-inefficient systems so new and increased emissions would not be expected to result from area sources onsite such as natural gas combustion (HVAC/building heating and water heaters), landscaping equipment, and use of consumer products that might be used in higher amounts to maintain aged facilities such as (including cleaning products, paints and/or aerosols). Overall, the Project would not introduce any new criteria pollutants.

4.4 Substantial Pollutant Concentrations

4.4.1 Localized emissions

The localized effects from the onsite portion of the emissions are evaluated at nearby sensitive receptor locations potentially impacted by the proposed Project according to the SCAQMD's

Localized Significance Threshold Methodology (June 2003, revised July 2008), which relies on onsite mass emission rate screening tables and Project-specific dispersion modeling, where appropriate. The localized significance thresholds are only applicable to NO_X, CO, PM10, and PM2.5. For NO_X and CO, the thresholds are based on the ambient air quality standards. For PM10 and PM2.5, the thresholds are based on requirements in SCAQMD Rule 403, Fugitive Dust. The SCAQMD has established screening criteria that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance thresholds and therefore not cause or contribute to an exceedance of the applicable ambient air quality standards without Project-specific dispersion modeling. The localized analysis is based on this SCAQMD screening criteria. The screening criteria depend on: (1) the area in which the project is located, (2) the size of the Project Site, and (3) the distance between the project site and the nearest sensitive receptor (e.g., residences, schools, hospitals). The Project Site is located in the Northwest Coastal Los Angeles County area and approximately 1-acre would be worked on at a time. The nearest sensitive receptors would be the students onsite at Thomas Jefferson High School during construction of the Project and residences adjacent to the Project Site. Therefore, to ensure a conservative analysis, the screening criteria was applied to a 1-acre site in Central Los Angeles with a 25-meter receptor distance. According to the SCAQMD, projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters.[34]

4.4.2 Carbon Monoxide Hotspots

Emissions of CO are produced in greatest quantities from motor vehicle combustion and are usually concentrated at or near ground level because they do not readily disperse into the atmosphere, particularly under cool, stable (i.e., low or no wind) atmospheric conditions. Localized areas where ambient concentrations exceed State and/or federal standards are termed CO hotspots. The potential for the Project to cause or contribute to the formation of offsite CO hotspots are evaluated based on prior dispersion modeling for the Project Site.

4.4.3 Toxic Air Contaminants

The potential for the Project to cause impacts from TACs are evaluated by conducting a screening-level analysis. The screening-level analysis consists of reviewing the Project's site plan and Project description to identify any new or modified TAC emission sources. If it is determined that the Project would introduce a new source of TACs, or modify an existing source, then downwind sensitive receptor locations are identified and a site-specific analysis is conducted.

The greatest potential for TAC emissions during construction would be related to diesel particulate matter emissions associated with heavy-duty equipment during demolition, excavation and grading activities. Construction activities associated with the Project would be sporadic, transitory, and short term in nature. Office of Environmental Health Hazard Assessment (OEHHA) is responsible for developing and revising guidelines for performing HRAs under the State's the Air Toxics Hot Spots Program Risk Assessment (AB 2588) regulation. In March

[34] South Coast Air Quality Management District, Final Localized Significance Threshold Methodology, (2008). Available: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed April 2018.

2015, OEHHA adopted revised guidelines that update the previous guidance by incorporating advances in risk assessment with consideration of infants and children using Age Sensitivity Factors (ASF). The construction HRA was performed in accordance with the revised OEHHA *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA Guidance).[35] The analysis incorporates the estimated construction emissions, as previously discussed, and dispersion modeling using the USEPA AMS/EPA Regulatory Model (AERMOD) model with meteorological data from the closest SCAQMD monitoring station.

Construction

As noted above, the greatest potential for TAC emissions would be related to diesel particulate matter emissions associated with heavy equipment operations during demolition, grading and excavation, and building construction activities. In addition, incidental amounts of toxic substances such as oils, solvents, and paints would be used. These products would comply with all applicable SCAQMD rules for their manufacture and use. The Project would be subject to several SCAQMD rules designed to limit exposure to TACs during construction activities. The Project would comply with the CARB Air Toxics Control Measure that limits diesel powered equipment and vehicle idling to no more than 5 minutes at a location, and the CARB In-Use Off-Road Diesel Vehicle Regulation; compliance with these would minimize emissions of TACs during construction. The Project would also comply with the requirements of SCAQMD Rule 1403 if asbestos is found during the renovation and construction activities.

The revised OEHHA Guidance take into account the sensitivity of children to TAC emissions, different breathing rates, and time spent at home. Children have a higher breathing rate compared to adults and would likely spend more time at home resulting in longer exposure durations. On June 5, 2015, SCAQMD incorporated these guidelines in to relevant rules designed for permitting of stationary sources. Although construction would be temporary, construction impacts associated with TACs are addressed quantitatively in a refined HRA. The HRA was performed in accordance with the OEHHA Guidance.

The process of assessing health risks and impacts includes a degree of uncertainty. The level of uncertainty depends on the availability of data and the extent to which assumptions are relied upon in cases where the data are incomplete or unknown. All HRAs rely upon scientific studies to reduce the level of uncertainty; however, it is not possible to completely eliminate uncertainty from the analysis. Where assumptions are used to substitute for incomplete or unknown data, it is standard practice in performing HRAs to err on the side of health protection to avoid underestimating or underreporting the risk to the public. In general, sources of uncertainty that may lead to an overestimation or an underestimation of the risk include extrapolation of toxicity data in animals to humans and uncertainty in the exposure estimates. In addition to uncertainty, there exists “a natural range or variability in measured parameters defining the exposure scenario” and that the “the greatest quantitative impact is variation among the human population in such properties as height, weight, food consumption, breathing rates, and susceptibility to

[35] Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (2015).

chemical toxicants."[36] As mentioned previously, it is typical to err on the side of health protection by assessing risk on the most sensitive populations, such as children and the elderly, by modeling potential impacts based on high-end breathing rates, by incorporating age sensitivity factors, and by not taking into account exposure reduction measures, such as mechanical air filtration building systems. Construction health risk assessment calculations are provided in Appendix A.

Fugitive Dust Emissions

In addition to DPM, fugitive dust emissions would occur through soil handling activities and wind erosion. Although fugitive dust itself is not considered toxic, metals and other Chemicals of Potential Concern (COPCs) such as lead and arsenic, can be bound to the soil particulates and could expose sensitive receptors to health hazards if disturbance causes fugitive dust emissions into the atmosphere. Emissions for fugitive dust from remediation related activities were calculated using standard USEPA methodologies used for construction site evaluations and include emissions from soil handling activities and wind erosion. Soil handling activities can be further classified into more detailed processes (such as excavation and material/soil handling) and emissions from these activities were applied based on the specific site/remediation activities.

Fugitive dust emissions are calculated for total particulate matter or total suspended particulate (PM or TSP). The emissions are often specified into particulate emission rates of certain particle sizes. Respirable particulate matter are particles less than 10 microns in aerodynamic diameter (PM10). Fine particulate matter are particles less than 2.5 microns (PM2.5) and are known to penetrate deeper into the lungs and thus have increased adverse health effects compared to PM10. It should be noted that PM2.5 is a subset of PM10, and that emissions calculated using PM10 specific factors include PM2.5 emissions. For the purposes of overall inventory development, total PM, PM10 and PM2.5 were calculated. However, PM10 emission rates (which includes PM2.5 as a subset) were used for the purposes of the HRA.

The fugitive dust emission equations outlined below are presented in a general format that allows calculation of total PM, PM10, and PM2.5. As PM2.5 is a subset of PM10, particulate multipliers (PM2.5/PM10 ratio) for PM2.5 were used to estimate emissions that were used as HRA inputs. As an example, the SCAQMD calculates that PM2.5 comprises approximately 21 percent of total PM10 emissions for general construction dust.[37] In order to calculate PM2.5 emissions resulting from fugitive dust, PM10 fugitive dust emissions are multiplied by 21 percent. The PM2.5/PM10 ratio for dust would vary depending on the type of material (i.e. concrete, gravel, soil) factored into the fugitive dust calculations below.

Fugitive dust would be generated from various activities, such as, excavation, soil handling, and wind erosion. Emission calculations were performed separately for each source. In addition,

36 California Environmental Protection Agency, Office of Health Hazard Assessment, Air Toxics Hot Spots Program, Guidance Manual for Preparation of Health Risk Assessments, (2015) 1-5, Available: http://oehha.ca.gov/air/crnr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0. Accessed April 2018.

37 South Coast Air Quality Management District, Final –Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, October 2006. Available: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-(pm)-2.5-significance-thresholds-and-calculation-methodology/final_pm2_5methodology.pdf?sfvrsn=2. Accessed April 2018.

fugitive dust calculations are dependent upon soil parameters and conditions such as silt loading, moisture content, soil density and wind speed. Assumptions which are used in the fugitive dust calculations are presented in **Appendix A** of this report.

Soil Excavation and Handling

Emissions of PM10 from excavation and handling of soil from the various locations on the Project Site would be estimated using the equation and emission factors in the USEPA AP-42 Section 13.2.4.3.[38] Emission factors generated as a result of the equation apply to soil excavation, stockpile unloading, and truck loading activities. The following equation was used to determine PM10 and PM2.5 emissions from excavation and handling:

Soil Excavation & Handling	$E(lb/ton) = k(0.0032) \times (U/5)^{1.3} / (M/2)^{1.4}$	Equation 2

Where:

E = emission factor, (lbs PM10 per ton of soil handled)

k = particle size multiplier (dimensionless)

U = mean wind speed, miles per hour (mph)

M = material moisture content (%)

The emission factor is based on USEPA AP-42 equation 13.2.4.3(1) and is also developed based on ranges of the source conditions, such as moisture content and mean wind speed. The average wind speed was obtained from the SCAQMD Central Los Angeles meteorological station for years 2006 to 2011 from 7:00 AM to 5:00 PM to represent an 8-hour workday. As meteorological data requires extensive processing, the SCAQMD does not update meteorological data sets on an annual basis for all stations. This meteorological data set (2006-2011) represents the available data from the SCAQMD at the time the analysis was conducted. The use of older meteorological data is acceptable for modeling as USEPA guidance does not specify a time limit or maximum age of meteorological data for air quality analyses. This average represents the wind speed averaged over the entire duration of available meteorological data (5 years). Dust suppressants such as water or foam may be used to control dust emissions. The reductions related to dust suppressants were incorporated into the emission rate calculations.

Wind Erosion

Wind erosion was calculated using the Cowherd Method based on an unlimited reservoir.

[38] United States Environmental Protection Agency, AP-42, Chapter 13.2.4, Aggregate Handling and Storage Piles, November 2006. Available: https://www3.epa.gov/ttn/chief/ap42/ch13/final/c13s0204.pdf. Accessed April 2018.

Wind Erosion (Unlimited Reservoir)[39]	EF ($g/m^2 * s$) = 0.036 (1-V) $(U_m/U_t)^3$ F(x)	Equation 4

Where:

V = fraction of vegetative cover (default = 0)

U_m = mean wind speed (m/s)

U_t = Equivalent threshold value of wind speed at 7 m/s (default = 11.32) (USEPA, 1996)

F(x) = Function dependent on U_m/U_t derived from Cowherd et. al (1985) (unitless); default = 0.194 (USEPA, 1996)

Wind erosion emission factors calculated above were used to determine stockpile emissions. During soil removal, small stockpiles may be used to store soil temporarily after excavation. These stockpiles would be covered with plastic and secured with sandbags. Using this strategy would reduce windblown dust emissions by approximately 90 percent as compared to exposed stockpiles. This control strategy was incorporated into the emission rate calculations. Wind erosion emission factors were calculated using the above parameters input to Equation 4.

Chemical and Exposure Pathway Identification

This health risk assessment was performed in several sequential steps; (1) Identification of COPC; (2) dispersion modeling; and (3) health risk calculations. COPCs were first identified through sampling and studies performed for the Project Site. A conceptual exposure model was then prepared to identify mechanisms through which receptors would be exposed to COPCs emitted during implementation of the RAW. Pollutant emissions were then calculated for the implementation of the RAW Localized dispersion modeling was then performed to determine compliance to ambient air quality standards as well as impacts to population. Health risk impacts were then calculated to provide additional health impact details such as cancer risk and lead exposure. The impact analysis will include analysis of the following steps:

- COPC Identification
- Dispersion Modeling
- Health Risk Impacts

Chemicals of Potential Concern (COPC)

As discussed previously in Section 1.1, soil sampling events occurred during the PEA.[40] The PEA soil sampling was conducted in numerous locations across the Project Site. Analyses were performed for a variety of chemicals, but only arsenic and lead were above residential screening levels. In addition to these, DPM from off road construction equipment is another COPC.

[40] Alta Environmental, Draft Preliminary Environmental Assessment Equivalent Report for Thomas Jefferson High School Comprehensive Modernization. February 2017.

Soil Concentrations (Lead)

Lead and arsenic would be emitted into the environment through fugitive dust generated by soil handling activities. In order to determine the amount of lead and arsenic emitted during soil excavation and removal, the average concentration of lead in the soil is multiplied by the amount of fugitive dust. Sampling results from the PEA show that the 95% upper confidence level concentrations for lead and arsenic were 81.44 and 6.55 mg/kg, respectively.

Sources of COPCs

Lead and arsenic would be emitted through handling of impacted soil and wind erosion while in stockpiles. Equipment and trucks operating in and around the Project Site would release DPM through engine exhaust emissions.

Routes of Exposure

The USEPA defines exposure as the contact of an organism with a chemical or physical agent.[41] . Chemicals potentially released from the Project Site during soil excavation ultimately contact and affect humans through distinct "routes of exposure," including inhalation, direct skin (dermal) contact and ingestion (oral exposure). Other exposure pathways that are subsets of the ingestion pathway include breast-milk consumption and water ingestion. The selection of applicable exposure pathways are based on the type of chemicals and method of environmental transport (air, water, soil).

Receptor Exposure

During Project construction, inhalation is the main exposure pathway of concern for DPM, while during soil removal activities, lead and arsenic bound to dust particles or DPM can enter the body through inhalation and, inadvertent ingestion pathways. As a subset of the ingestion pathway, home-grown produce and mother's milk was also considered in the analysis consistent with SCAQMD recommended HRA guidelines. Home grown produce (vegetables and fruit) have the potential to absorb pollutants deposited from Project-generated fugitive dust. Nursing mothers who are exposed to pollutants have the potential to transfer these pollutants to their milk during lactation. As a result, home-grown produce and mother's milk ingestion was considered for residential receptors.

Dispersion Modeling

The analysis incorporates the estimated construction DPM emissions including dust emissions from soil handling activities. Dispersion modeling was performed using the USEPA-approved AERMOD with meteorological data from the representative SCAQMD monitoring station located in Central Los Angeles. The SCAQMD specifically recommends that projects use the nearest representative SCAQMD meteorological station for modeling, which is usually the nearest station; however, an interfering terrain feature may dictate the use of an alternate station. Emission sources were located on the Project Site corresponding to the areas of construction activity. A line-volume source was used to represent the construction emission sources and haul

[41] United States Environmental Protection Agency, 2011. Vocabulary Catalog, https://iaspub.epa.gov/sor_internet/registry/termreg/searchandretrieve/glossariesandkeywordlists/search.do?details=&vocabName=IRIS%20Glossary#formTop. Accessed April 2018.

truck emissions within a quarter-mile of the Project Site. Volume sources were used to represent truck idling emissions. Area sources were used to represent dust emissions where soil excavation, handling, and storage piles would be located. There are a total of 35 sites to have soil removed throughout the site and excavation quantities range from 1 CY to 44CY. The 35 areas were grouped into six area sources to represent the surface area of the grouped sites. Construction emissions would not be generated during the nighttime hours; therefore, the dispersion modeling allocates the emissions during the active daytime construction hours. Sensitive receptors identified for modeling were placed at the location of nearby sensitive land uses, which include surrounding residential uses and students and teachers onsite. This analysis focuses on residential impacts and impacts for the school.

Health Risk Impacts

Cancer Risk

Health risk impacts for DPM are assessed using a spreadsheet tool based on the Hotspots Analysis and Reporting Program (HARP2) model developed by CARB, which was released March 2015.[42] The health risk calculation methodology is consistent with the 2015 OEHHA Guidance. For this risk assessment, the spreadsheet tool was used to analyze the results of the AERMOD dispersion model and convert the unitized pollutant concentrations into chemical-specific incremental cancer risks and non-cancer chronic and acute health impacts. Health impacts address construction DPM, as well as lead and arsenic emissions effects on nearby sensitive receptors.

Health risk impacts for lead and arsenic are assessed using the HARP2 Risk Assessment Standalone Tool developed by CARB. The health risk calculation methodology contained in HARP is consistent with the 2015 OEHHA Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. For this risk assessment, the HARP model was used to analyze the results of the AERMOD dispersion model and convert the unitized pollutant concentrations into chemical-specific incremental cancer risks and non-cancer chronic and acute health impacts. The results of the HRA for implementation of soil removal are calculated based on the maximum impacted residence and school receptor.

Health impacts are evaluated using a dose-response assessment, which describes the relationship between the level of exposure to a substance (i.e., the dose) and the incidence or occurrence of injury (i.e., the response).[43] In order to determine the total dose to offsite sensitive receptors, the applicable pathways of exposure should be identified. The applicable exposure pathways (e.g., inhalation, soil) are identified for the emitted substances, and the receptor locations are identified. The applicable exposure pathways determine the exposure algorithms that are used to estimate dose. After the exposure pathways are identified, the applicable fate and transport algorithms are used to estimate concentrations in the applicable exposure media (e.g., air) and the exposure algorithms are used to determine the substance-specific dose. In accordance with the OEHHA Guidance, the inhalation pathway was evaluated for DPM, lead, and arsenic. For the inhalation

[42] California Air Resources Board, Hotspots Analysis Reporting Program, (2015). Available: https://www.arb.ca.gov/toxics/harp/eim2download.htm. Accessed April 2018.

[43] Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, (2015).

pathway, dose is directly proportional to the breathing rate. As a conservative (i.e., health protective) approach, maximum breathing rates were used in this analysis.

In performing health risk calculations, carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. Incremental health risks associated with exposure to carcinogenic compounds is defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one $\mu g/m^3$ over a 70-year lifetime. The URFs utilized in the assessment and the corresponding cancer potency factors (CPF) were obtained principally from OEHHA Guidance.

For the inhalation pathway, the cancer risk characterization procedure requires the incorporation of several discrete variables to effectively quantify dose. Once determined, contaminant dose is multiplied by the CPF in units of inverse dose expressed in milligrams per kilogram per day $(mg/kg/day)^{-1}$ and other exposure factors to derive the cancer risk estimate.

This approach for calculating cancer risk is intended to result in conservative (i.e., health protective) estimates of health impacts and is used for assessing risks to sensitive receptors. The estimation of cancer risk uses the following algorithms:

Risk = Dose inhalation × Inhalation CPF × ASF (Equation 1)

Where:	Dose inhalation	=	CAIR × DBR × A × EF × ED × FAH/AT	(Equation 2)
	Inhalation CPF	=	inhalation cancer potency factor	
	ASF	=	age sensitivity factor	
Where:	CAIR	=	concentration of compound in air in micrograms per cubic meter (µg/m3)	
	DBR	=	breathing rate in liter per kilogram of body weight per day (L/kg-body weight/day)	
	A	=	inhalation absorption factor (1 for DPM)	
	EF	=	exposure frequency in days per year (day/year)	
	ED	=	exposure duration in years (year)	
	FAH	=	fraction of time at home	
	AT	=	averaging time period over which exposure is averaged in days (day)	

The OEHHA recommended values for the parameters listed above were used in the HRA analysis. The daily breathing rate (DBR) used in the analysis was based on was based on OEHHA recommendations which vary depending on age which are shown in **Table 7,** *OEHHA Recommended Residential Daily Breathing Rates for Point Estimate Dose Calculations (L/kg body weight)*. The OEHHA breathing rates in Table 7 are higher than the SCAQMD

recommended values in its Risk Assessment Procedures for Rules 1401 and 212, Appendix M, Version 8.0, and thus provides for a conservative and health protective assessment. The recommended exposure frequency (EF) is 350 days per year which is equivalent to 0.96 (350 days/365 days a year). The inhalation absorption factor (A) is assumed to be 1 for inhalation-based risk assessment.

TABLE 7
OEHHA RECOMMENDED RESIDENTIAL DAILY BREATHING RATES FOR POINT ESTIMATE DOSE CALCULATIONS BY RECEPTOR TYPE (L/KG BODY WEIGHT)

Receptor Type	3rd Trimester	0<2 Years	2<16 Years	16<70 Years
Resident Child [a]	361	1,090	745	290
Student	-	-	745[b]	-
Worker [c]	-	-		335

[a] Residential DBRs are based on the 95th percentile breathing rates from OEHHA (Table 5.6). Resident exposure is for a total of 5.5 years, so the 16<70 age group is not used.
[b] School DBRs are based the 95th percentile breathing rates from OEHHA (Table 5.6). School exposure is for a total of 4 years.
[c] Worker DBRs are based on the 95th percentile moderate intensity 8-hr breathing rates from OEHHA (Table 5.8). Worker exposure starts at age 16 and duration is 5.5 years.

SOURCE: OEHHA, Air Toxics Hot Spots Program Guidance Manual, 2015.

As indicated in Equation 1 above, each age group has different exposure parameters which require cancer risk to be calculated separately for each age group. Values for fraction of time at home (FAH) are presented in **Table 8**, *OEHHA Recommendations for Fraction of Time at Home (FAH) for Evaluating Residential Cancer Risk*. Once dose is calculated, cancer risk is calculated by accounting for cancer potency of the specific pollutant, and the ASF.

TABLE 8
OEHHA RECOMMENDATIONS FOR (FAH) FOR EVALUATING RESIDENTIAL CANCER RISK

Age Range	Fraction of Time at Home (FAH)
3rd Trimester	1.0
0<2 Years	1.0
2<16	1.0
16<70 Years	0.73

SOURCE: OEHHA, Air Toxics Hot Spots Program Guidance Manual, 2015.

The incremental increase in cancer risk is the dose multiplied by the pollutant-specific CPF values. Cancer risk is calculated by multiplying the inhalation dose by the inhalation CPF to yield the potential inhalation excess cancer risk. Cancer risk was evaluated for residences in the surrounding area and onsite students and staff.

Non-Cancer Risk

Non-cancer chronic impacts were assessed based on the Hazard Index (HI). The evaluation of chronic impacts is based on the maximum annual emissions over a 12-months period of construction activity for DPM. The chronic Hazard Index is calculated by dividing the maximum modeled annual average concentration at the maximum impacted sensitive receptor by the Reference Exposure Level (REL). The REL is the concentration at or below which no adverse health effects are anticipated. For example, OEHHA has recommended an ambient concentration of 5 $\mu g/m^3$ as the chronic inhalation REL for DPM exhaust. Therefore, a sensitive receptor exposed to an annual average DPM concentration of 5 $\mu g/m^3$ or less would not result in a chronic impact. Non-cancer chronic impacts affect specific target organ systems (also called toxicological endpoints), such as the eye, nervous system, reproductive system, and respiratory system. The chronic health impact with the maximum Hazard Index for the same target organ system is used for impact determination. As a conservative assumption, the non-cancer health impact analyses do not take into account FAH.

Blood Lead Calculations

In light of the updated CalEPA lead toxicity criterion, as well as the need for revision to ensure that the model is adequately protective of women of child-bearing age, the DTSC has developed the LeadSpread model to address lead exposure to children, and fetuses (from pregnant mothers). LeadSpread modeling is not recommended for use with adults. With regard to modeling blood lead for adults, the USEPA Adult Lead Model (ALM) would be considered appropriate (California DTSC, 2007). The DTSC has also released a version of the ALM with the same assumptions used in LeadSpread. LeadSpread and the modified ALM were used to model lead exposure to children and adults, respectively.

LeadSpread and ALM require several inputs including lead concentration in the soil, exposure duration, and ingestion rate. It should be noted that the soil lead concentration input into the LeadSpread and ALM models are at the sensitive receptor (residence) and not the actual Project Site. These models calculate soil ingestion based on concentrations for the area to be evaluated (residence, school). For calculating the public's potential inhalation exposure to lead through fugitive dust, the actual soil lead concentration was used in the dispersion estimates.

Lead may be deposited at sensitive receptors in the form of fugitive dust and then ingested. Airborne concentrations of lead at nearby sensitive receptors resulting from Project activities were determined using AERMOD dispersion modeling.

Soil concentrations at the maximum impacted residential receptor were calculated using a HARP default deposition rate of 0.02 meters per second (m/s). An exposure duration of 5 days per week was used in the analysis. Lead deposited onto bare soil was assumed to be evenly mixed into the first top centimeter. Residential receptors with the highest lead concentrations were analyzed in LeadSpread and modified ALM.

Operations

During long-term operations, TACs could be emitted as part of periodic maintenance operations, cleaning, painting, etc., and from periodic visits from delivery trucks and service vehicles.

However, these uses are expected to be occasional and result in minimal exposure to offsite sensitive receptors. As the Project is a school, the Project would not include sources of substantive TAC emissions identified by the SCAQMD or CARB siting recommendations. Thus a qualitative analysis is appropriate.

4.5 Odors

Potential odor impacts are evaluated by conducting a screening-level analysis followed by a more detailed analysis as necessary. The screening-level analysis consists of reviewing the Project's site plan and Project Description to identify new or modified odor sources. If it is determined that the Project would introduce a potentially significant new odor source, or modify an existing odor source, then downwind sensitive receptor locations are identified and a site-specific analysis is conducted to determine Project impacts.

SECTION 5.0
Environmental Impacts

5.1 Consistency with Air Quality Plan

The Project Site is located within the Air Basin. The SCAQMD is required, pursuant to the CAA, to reduce emissions of criteria pollutants for which the Air Basin is in non-attainment (i.e., ozone, PM10, and PM2.5). The Project would be subject to the SCAQMD's Air Quality Management Plan (AQMP), which contains a comprehensive list of pollution control strategies directed at reducing emissions and achieving ambient air quality standards. These strategies are developed, in part, based on regional population, housing and employment projections prepared by the SCAG, the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. A project is consistent with the AQMP if it is consistent with the population, housing and employment assumptions that were used in the development of the AQMP. Neither the Thomas Jefferson High School Comprehensive Modernization Project nor the SUP as a whole is a large, regionally significant Project that would affect the regional growth projections made by the SCAG and used by the SCAQMD in formulating its AQMP. The student and faculty population at the school would not increase as a result of the Project.

5.1.1 Construction

Under this criterion, the SCAQMD recommends that lead agencies demonstrate that a project would not directly obstruct implementation of an applicable air quality plan and that a project be consistent with the assumptions (typically land-use related, such as resultant employment or residential units) upon which the air quality plan is based. The proposed Project would result in an increase in short-term employment compared to existing conditions. Being relatively small in number and temporary in nature, construction jobs under the Project would not conflict with the long-term employment projections upon which the AQMP is based. Control strategies in the AQMP with potential applicability to short-term emissions from construction activities include strategies denoted in the AQMP as MOB-08 and MOB-10, which are intended to reduce emissions from on-road and off-road heavy-duty vehicles and equipment by accelerating replacement of older, emissions-prone engines with newer engines meeting more stringent emission standards. The Project would not conflict with implementation of these strategies. Additionally, the Project would comply with CARB requirements to minimize short-term emissions from on-road and off-road diesel equipment. The Project would also comply with SCAQMD regulations for controlling fugitive dust pursuant to SCAQMD Rule 403 and implement SC-AQ-2 through SC-AQ-4. SC-AQ-2 would obligate construction contractors to have off road equipment properly tuned and maintained in accordance with the manufacturer's

specifications. SC-AQ-3 would implement methods for reducing onsite dust emissions during soil removal. These methods would include: maintain slow speeds for vehicles, applying water/mist to dirt as it is loaded and unloaded, minimize soil drop heights, covering haul truck loads, and using polyethylene sheeting during to cover excavated areas and dirt stockpiles. SC-AQ-4 is intended to reduce construction exhaust and fugitive dusts emissions with a number of features including but not limited to: restricting diesel engine idling times to no more than five consecutive minutes, utilizing ultra-low sulfur diesel fuel, utilizing off road construction equipment that is compliant with Tier 4 engine standards, applying soil stabilizers, replacing ground cover as soon as possible, and installing wheel washers.

Compliance with these requirements is consistent with and meets or exceeds the AQMP requirements for control strategies intended to reduce emissions from construction equipment and activities. Because the Project would not conflict with the control strategies intended to reduce emissions from construction equipment, the Project would not conflict with or obstruct implementation of the AQMP. Additionally, the Projected emissions from the Project would not exceed the SCAQMD's regional significance thresholds, as discussed below. Thus, the Project would not be considered by SCAQMD to be a substantial source of air pollutant emissions, and would not conflict or obstruct implementation of the AQMP. Therefore, impacts would be less than significant.

5.1.2 Operation

The 2016 AQMP was prepared to accommodate growth, reduce the levels of pollutants within the areas under the jurisdiction of SCAQMD, return clean air to the region, and minimize the impact on the economy. Projects that are considered consistent with the AQMP would not interfere with attainment because this growth is included in the projections used in the formulation of the AQMP.

The proposed Project is a comprehensive modernization of the existing Thomas Jefferson High School. The student and faculty population at the school would not increase as a result of the Project. The land use would stay the same and thus be consistent with the AQMP. Additionally, the proposed Project would not significantly increase vehicle trips to the Project Site. As a result, the proposed Project would not result in long-term operational population or employment growth that exceeds planned growth projections in the RTP/SCS or the AQMP or result in employment growth that would substantially add to traffic congestion. As the proposed Project would not conflict with the growth projections in the AQMP, impacts would be less than significant.

5.2 Regional Emissions

5.2.1 Construction Emissions

The worst-case daily emissions were calculated as maximum daily construction emissions for each phase by year. The maximum daily emissions are predicted values for the worst-case day and do not represent the emissions that would occur for every day of construction. Detailed emissions calculations are provided in Appendix A. Results of the criteria pollutant calculations are presented in **Table 9**, *Maximum Daily Unmitigated Regional Construction Emissions*. As

shown therein, construction-related daily emissions for the criteria and precursor pollutants (VOC, NO_X, CO, SO_X, PM10, and PM2.5) would be below the SCAQMD numeric indicators. These calculations include appropriate dust control measures required to be implemented during each phase of development, as required by SCAQMD Rule 403 (Control of Fugitive Dust) and SC-AQ-2 through SC-AQ-4. As discussed previously, SC-AQ-2 would obligate construction contractors to have off road equipment properly tuned and maintained in accordance with the manufacturer's specifications. SC-AQ-3 would implement methods for reducing onsite dust emissions during soil removal. SC-AQ-4 is intended to reduce construction exhaust and fugitive dusts emissions with a number of features including utilizing off road construction equipment that is compliant with Tier 4 engine standards and applying soil stabilizers. Therefore, with respect to regional emissions from construction activities, impacts would be less than significant.

TABLE 9
MAXIMUM DAILY UNMITIGATED REGIONAL CONSTRUCTION EMISSIONS (POUNDS PER DAY)

Phase	Source	VOC	NO_x	CO	SO_2	PM10 [b]	PM2.5 [b]
Phase 1	Soil Removal	2	47	24	<1	5	2
	Demolition	1	2	23	<1	2	1
	Grading	1	1	14	<1	4	1
	Building Construction	1	5	16	<1	2	1
Phase 2	Demolition	1	2	22	<1	2	1
	Grading	1	1	14	<1	3	1
	Building Construction	1	5	15	<1	2	1
Phase 3	Demolition	1	5	22	<1	2	1
	Grading	1	1	12	<1	3	1
	Building Construction	1	4	14	<1	2	1
	Paving	1	1	9	<1	2	<1
	Architectural Coating	33	1	7	<1	2	<1
Phase 4	Demolition	1	2	20	<1	2	1
	Grading	1	1	12	<1	3	1
	Building Construction	1	3	13	<1	2	1
	Paving	1	1	9	<1	2	<1
	Architectural Coating	33	<1	6	<1	2	<1
Phase 5	Demolition	1	3	20	<1	2	1
	Grading	1	1	13	<1	4	1
	Building Construction	1	2	6	<1	2	1
	Paving	1	1	8	<1	2	<1
Overlapping Phases							
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Grading		3	11	50	<1	8	3
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Building Construction		3	13	52	<1	6	2
Phase 2 Building Construction+Phase 3 Building Construction		2	9	30	<1	4	1
Phase 3 Paving+Phase 3 Architectural Coating+Phase 4 Demolition		2	3	30	<1	4	1
Maximum Daily Emissions		33	47	52	<1	8	3
SCAQMD Significance Thresholds		75	100	550	150	150	55
Exceeds Threshold?		No	No	No	No	No	No

NOTE: Detailed emissions calculations are provided in Appendix A.

With respect to all SUP projects, including the proposed Project, the PEIR states that construction activities may generate short-term emissions that exceed significance thresholds. Though construction emissions for this Project are not expected to exceed regional thresholds, the District

will implement SCs AQ-2, SC-AQ-3, and AQ-4 to ensure that construction emissions would have minimal impacts. Also, criteria pollutant emissions would occur outside of SCAQMD's jurisdiction during transportation of contaminated soil to Buttonwillow, California. The Project would be substantially below the San Joaquin Valley Air Pollution District's Thresholds of Significance for all criteria pollutants.

5.2.2 Operational Emissions

With respect to SUP modernization projects, the PEIR states that operational activities would be less than significant, as these projects would not increase capacity to existing schools and net Project emissions would be minimal. Additionally, overall District enrollment is forecast to decrease over the next ten years and operational emissions are not expected to increase in the long-term.[44]

The proposed Project would replace or upgrade facilities on the campus of Thomas Jefferson High School, but it would not increase the number of students or faculty at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating and other onsite sources. Therefore, there would be no net increase in regional emissions of any criteria pollutant, and the impact would be less than significant. Additionally, the District is required to comply with all applicable SCs, and would implement SC-AQ-5 to further reduce Project-related operational impacts.

5.3 Cumulatively Considerable Non-Attainment Pollutants

Short-term pollutants would be generated by construction of the proposed Project. The Project Site currently operates as high school and will continue do so after construction. The proposed Project would not introduce any new long-term pollutants when operational. Therefore, only short-term construction emissions were evaluated for cumulative impacts.

5.3.1 Construction

The proposed Project would result in the emission of criteria pollutants for which the area is in non-attainment during construction. A significant impact may occur if a Project would add a cumulatively considerable contribution of a federal or State non-attainment pollutant. The Air Basin is currently in non-attainment for O_3, PM10, and PM2.5. As stated in the Program EIR, SUP-related construction activities may generate short-term emissions that exceed significance thresholds and cumulatively contribute to the Air Basins non-attainment designations.

44 Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

The emissions from construction of the proposed Project are not predicted to exceed the SCAQMD regional or localized impact thresholds and therefore, are not expected to cause or substantially contribute to ground level concentrations that exceed the NAAQS or CAAQS. Furthermore, the District would implement SC-AQ-2, SC-AQ-3, and SC-AQ-4 to ensure that construction emissions would have minimal offsite impacts.[45, 46] Therefore, the Project would not result in a cumulatively considerable net increase for non-attainment pollutants or O_3 precursors and would result in a less than significant impact for construction emissions.

5.3.2 Operation

The PEIR also states that operational activities would be less than significant for all SUP modernization projects, including the proposed Project, and are not expected to cumulatively contribute to non-attainment designations in the Air Basin.[47] As discussed above, there would be no net increase in regional operational emissions of any criteria pollutant. Additionally, the District will implement SC-AQ-5 to further reduce Project-related operational impacts. Therefore, the emissions of non-attainment pollutants and precursors generated by Project implementation would be less than significant.

5.4 Substantial Pollutant Concentrations

5.4.1 Localized Construction Emissions

The localized construction air quality analysis was conducted using the methodology described in the SCAQMD *Localized Significance Threshold Methodology* (June 2003, revised July 2008).[48] The screening criteria provided in the *Localized Significance Threshold Methodology* were used to determine localized construction emissions thresholds for the Project. The maximum daily localized emissions for each of the construction phases and localized significance thresholds are presented in **Table 10**, *Maximum Unmitigated Localized Construction Emissions*. As shown therein, maximum localized construction emissions for sensitive receptors would not exceed the localized thresholds for NO_X, CO, PM10, and PM2.5. Therefore, with respect to localized construction emissions, impacts would be less than significant.

45 Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. Pgs 5.3-28 to 5.3-30.

46 Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. Pgs. 5.3-27 to 5.3-28.

47 Los Angeles Unified School District, 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015. Pgs. 5.3-29

48 South Coast Air Quality Management District, Localized Significance Thresholds, (2003, revised 2008), http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed April 2018.

TABLE 10
MAXIMUM UNMITIGATED LOCALIZED CONSTRUCTION EMISSIONS (POUNDS PER DAY) [A]

Source		NO_X	CO	PM10 [b]	PM2.5 [b]
Phase 1	Soil Removal	1	10	<1	<1
	Demolition	1	15	<1	<1
	Grading	1	7	2	1
	Building Construction	1	8	<1	<1
Phase 2	Demolition	1	15	<1	<1
	Grading	1	7	2	1
	Building Construction	1	8	<1	<1
Phase 3	Demolition	1	15	<1	<1
	Grading	1	7	2	1
	Building Construction	1	8	<1	<1
	Paving	<1	4	<1	<1
	Architectural Coating	<1	2	<1	<1
Phase 4	Demolition	1	15	<1	<1
	Grading	1	7	2	1
	Building Construction	1	8	<1	<1
	Paving	<1	4	<1	<1
	Architectural Coating	<1	2	<1	<1
Phase 5	Demolition	1	15	<1	<1
	Grading	1	9	2	1
	Building Construction	<1	2	<1	<1
	Paving	<1	4	<1	<1
Overlapping Phases					
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Grading		3	30	2	1
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Building Construction		4	32	<1	<1
Phase 2 Building Construction+Phase 3 Building Construction		3	16	<1	<1
Phase 3 Paving+Phase 3 Architectural Coating+Phase		2	20	<1	<1
Maximum Daily Emissions		**4**	**32**	**2**	**1**
Localized Significance Thresholds		74	680	5	3
Exceeds Threshold?		No	No	No	No

[a] Totals may not add up exactly due to rounding in the modeling calculations Detailed emissions calculations are provided in Appendix A.
[b] Emissions include fugitive dust control measures consistent with SCAQMD Rule 403.

With respect to all SUP projects, the PEIR states that construction activities may generate short-term emissions that exceed LSTs. Though construction emissions for this Project are not expected to exceed thresholds, the District will implement SC-AQ-2 to ensure that sensitive receptors would have minimal exposure to construction emissions. Additionally, emissions from Project-related construction activities would fall below both localized and regional SCAQMD significance thresholds and would not violate an air quality standard or contribute to an existing

or projected air quality violation. Therefore, localized air quality impacts from Project-related construction would be less than significant.

5.4.2 Localized Operational Emissions

The proposed Project would replace or upgrade facilities on the campus of Thomas Jefferson High School, but it would not increase the number of students or faculty at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating and other onsite sources. Therefore, there would be no net increase in local operational emissions of any criteria pollutant, and the impact to sensitive receptors would be less than significant.

5.4.3 Toxic Air Contaminants

Contaminated Soil Removal

The proposed Project would require approximately one week to remove the 229 cubic yards of contaminated soil. During soil removal activities, dust emissions containing lead and arsenic could be inhaled, ingested, and/or absorbed. Dispersion modeling used area sources located in areas where soil excavation, handling and storage would take place. Receptors were placed at residential receptors in immediate vicinity of the Project Site in addition to an onsite receptor to represent student and teach exposures. This source receptor configuration was used to be representative of the worst-case scenario in terms of pollutant exposure.

Cancer and chronic health impacts are based on exposure to pollutants on an annual basis, while acute health impacts are based on a maximum hourly exposure. DPM and lead do not have acute RELs, only arsenic has an acute REL, therefore acute impacts for arsenic would be evaluated.

In order to account for sensitivity of younger age groups, risks were calculated for children and adults. In accordance with OEHHA guidance, child risk assumes exposure starting at 3rd trimester of pregnancy, while adult risk assumes exposure starting at 16 years of age. The minimum exposure duration the HARP model allows is a half year. Since actual exposure duration is one week, the HARP results would overestimate actual exposure. Impacts for residents offsite and students onsite were evaluated. **Table 11,** *Lead and Arsenic Health Impact Summary*, shows the results of the HARP2 model for impacts of lead and arsenic emissions. Lead does not have chronic or acute impacts; therefore, chronic and acute impacts are presented for arsenic.

TABLE 11
LEAD AND ARSENIC HEALTH IMPACT SUMMARY

	Cancer Risk per Million			Chronic Hazard Index	Acute Hazard Index
Receptor Type	**Lead**	**Arsenic**	**Total**	**Arsenic**	**Arsenic**
Offsite Resident	2.2×10^{-7}	3.9×10^{-6}	4.1×10^{-6}	1.9×10^{-6}	5.7×10^{-8}
Students	5.0×10^{-6}	8.9×10^{-5}	9.4×10^{-5}	4.3×10^{-5}	7.1×10^{-7}

Staff	1.2×10^{-6}	2.0×10^{-5}	2.1×10^{-5}	1.4×10^{-5}	7.1×10^{-7}
SCAQMD Threshold	–	–	*10*	*1.0*	*1.0*
Exceed SCAQMD Threshold?	–	–	**No**	**No**	**No**

SOURCE: ESA 2017

Blood Lead

Although health risk estimates calculated above analyze exposure to heavy metals, lead exposure was further analyzed to determine potential impacts on child and fetal (pregnant adult) development. Potential blood lead concentrations in children and pregnant adults were estimated using the DTSC LeadSpread 8 model. Maximum concentrations of airborne lead were calculated using AERMOD dispersion modeling. Results of this model show that the incremental increase in child and pregnant adult blood lead concentrations would be 0.75 µg/dL for children and 0.13 µg/dL for adults, below the threshold of 1.0 µg/dL, and therefore, less than significant.

Construction Diesel Emissions

Project-related construction has the potential to expose sensitive receptors to substantial pollutant concentrations of toxic air contaminants (TACs). TAC are pollutants for which neither California nor the federal government have set ambient air quality thresholds but which still pose health risks to sensitive individuals. The primary TAC of concern from construction is DPM. Inhalation of DPM has been linked to increased cancer risk and chronic health hazards. Three classes of sensitive receptors were evaluated for this Project: offsite residents, onsite workers (teachers and administrative staff), and onsite students. Onsite DPM emissions from Project construction were examined to determine their potential to expose each group of receptors to levels of DPM emissions that could result in significant health effects.

To evaluate health risks, off-road (onsite) construction equipment DPM emissions were estimated using the CalEEMod model. In accordance with SC-AQ-4, the Project would use construction equipment rated by the United States Environmental Protection Agency as having Tier 4 emission limits for engines between 50 and 750 horsepower. DPM emissions were analyzed for construction equipment having Tier 4 engines. On-road (offsite) equipment emissions within a quarter-mile of the site were included in this assessment. The next step involved estimating Project-related DPM concentrations at sensitive receptor locations. The AERMOD dispersion modeling was used to estimate DPM concentrations using several inputs: DPM emission rates per unit of time, five years of hourly meteorological data, and sensitive receptor locations. The DPM concentrations produced by AERMOD were converted to cancer risks and chronic health hazards using guidance issued by the California Office of Environmental Health Hazards and Assessment[49]. The SCAQMD has established a maximum incremental cancer risk of 10 in a million (1.0E-05) for CEQA projects and the OEHHA also sets a typical risk management level as 10 in a million.

[49] Office of Environmental Health Hazard Assessment, 2015 Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf

The Project's health risk calculations were performed using a spreadsheet tool consistent with the OEHHA guidance, which incorporates the algorithms, variables, and equations of the guidance, and incorporates the AERMOD dispersion model.

For carcinogenic exposures, the cancer risk from DPM emissions from construction of the Project is estimated to result in a maximum carcinogenic risk of approximately 5.4 per million. The maximum impact would occur at the residential property south west of the Project Site. Cancer risk to students and staff onsite would be 0.39 per million and 0.07 per million, respectively. As discussed previously, the lifetime exposure under OEHHA guidelines takes into account early life (infant and children) exposure. The calculated cancer risk assumes sensitive receptors (residential and school uses) would not have any mitigation, such as mechanical filtration and exposure would occur with windows open.

Table 12, *Project Maximum Health Impact Summary*, summarizes the maximum impacted sensitive receptors. Values in the table incorporate the results of health impacts from DPM, as well as the impacts from lead and arsenic found in Table 11.

TABLE 12
PROJECT MAXIMUM HEALTH IMPACT SUMMARY

Receptor Type	Maximum Incremental Cancer Risk per Million	Chronic Hazard Index	Acute Hazard Index
Offsite Resident	5.4*	5.5×10^{-5}	5.7×10^{-8}
Students	0.38	7.0×10^{-5}	7.1×10^{-7}
Staff	0.07	4.0×10^{-5}	7.1×10^{-7}
SCAQMD Threshold	*10*	*1.0*	*1.0*
Exceeds SCAQMD Threshold?	**No**	**No**	**No**

Offsite residents assumed to be exposed for the entire 5.5 years of Project construction. Onsite school staff assumed to be exposed to the entire 5.5 years of Project construction. Students assumed to be exposed for a maximum of 4 years.
*The residential cancer risk is higher compared to staff and students due to conservative parameters used for early development stages of childhood (3rd trimester of pregnancy and 0-2 years old). These parameters include higher daily breathing rates, a fraction of time at home of 1.0 (meaning children would be at home 100 percent of the time, thus exposed to 100 percent of emissions), and an age sensitivity factor of 10. The residential scenario assumed a pregnant and nursing mother located approximately 50 feet from the Project Site for the duration of construction.

SOURCE: ESA 2017

The process of assessing health risks and impacts includes a degree of uncertainty, which is dependent on the availability of data and the extent to which assumptions are relied upon in cases where the data are incomplete or unknown. All HRAs rely upon scientific studies to reduce the level of uncertainty; however, it is not possible to completely eliminate uncertainty from the analysis. Where assumptions are used to substitute for incomplete or unknown data, it is standard practice in performing HRAs to err on the side of health protection to avoid underestimating or underreporting the risk to the public by assessing risk on the most sensitive populations, such as children and the elderly. As shown in Table 12, cancer risk for nearby sensitive receptors would remain below significance thresholds. These short-term emissions would not substantially contribute to a significant construction health risk. No residual emissions and corresponding

individual cancer risk are anticipated after Project construction. Therefore, the proposed Project would result in a less than significant impact related to construction TAC emissions.

5.4.4 Carbon Monoxide Hotspots

Furthermore, the PEIR states the operation of SUP projects would not expose sensitive receptors to substantial pollutant concentrations due to the fact that stationary sources at schools have nominal emissions, related to the use of natural gas heaters and boilers, landscaping equipment, and consumer products (cleaning products).[50] As minimal to no new vehicle trips would be generated by this Project, SUP-related CO hotspot impacts would be less than significant according to the PEIR.[51] In addition, the District would implement SC-AQ-5, and long-term Project impacts would be considered less than significant.

5.5 Odors

5.5.1 Construction

Potential activities that may emit odors during construction activities include the use of architectural coatings and solvents and the combustion of diesel fuel in on-and off-road equipment. As discussed in the Regulatory Setting, Section 2, of this technical report, SCAQMD Rule 1113 would limit the amount of VOCs in architectural coatings and solvents. In addition, the proposed Project would comply with the applicable provisions of the CARB Air Toxics Control Measure regarding idling limitations for diesel trucks. Through mandatory compliance with SCAQMD Rules, no construction activities or materials are expected to create objectionable odors affecting a substantial number of people. Therefore, construction of the Project would result in less than significant impacts.

5.5.2 Operation

According to the SCAQMD *CEQA Air Quality Handbook*, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The proposed Project does not include any uses identified by the SCAQMD as being associated with substantial odors. As a result, the Project is not expected to discharge contaminants into the air in quantities that would cause a nuisance, injury, or annoyance to the public or property pursuant to SCAQMD Rule 402. Therefore, the Project would not create adverse odors affecting a substantial number of people and impacts would be less than significant.

50 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

51 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

SECTION 6.0
Cumulative Impacts

The Project would result in the emission of criteria pollutants for which the region is in non-attainment during both construction and operation. The Air Basin fails to meet national standards for O_3 and PM2.5 and therefore is considered a federal "non-attainment" area for these pollutants.

The SCAQMD has provided guidance on an acceptable approach to addressing the cumulative impacts issue for air quality as discussed below:[52]

> *"As Lead Agency, the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR… Projects that exceed the Project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."*

Consistent with accepted and established SCAQMD cumulative impact evaluation methodologies, the potential for the Project to result in cumulative impacts is assessed based on the SCAQMD thresholds.

As shown in Table 5 and Table 6, regional emissions calculated for Project construction and operations would be less than the applicable SCAQMD daily significance thresholds. The thresholds are designed to assist the region in attaining the applicable State and national ambient air quality standards. These standards apply to both primary (criteria and precursor) and secondary pollutants (O_3). Although the Project Site is located in a region that is in non-attainment for O_3 and PM2.5, the emissions associated with the Project would not be cumulatively considerable as the emissions would fall below SCAQMD daily significance thresholds. In addition, the Project would be consistent with the AQMP, which is intended to bring the Air Basin into attainment for all criteria pollutants.

6.1 Construction Impacts

The SCAQMD's methodology to assess a Project's cumulative impact differs from the cumulative impacts methodology employed for other environmental topics such as traffic, which are typically based on the number, types, and proximity to related Projects. The SCAQMD

52 South Coast Air Quality Management District, Cumulative Impacts White Paper, Appendix D, http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper-appendix.pdf?sfvrsn=4. Accessed April 2018.

recommends that project-specific air quality impacts be used to determine the potential cumulative impacts to regional air quality.

With respect to the Project's short-term construction-related air quality emissions and cumulative conditions, the SCAQMD has developed strategies to reduce criteria pollutant emissions outlined in the AQMP pursuant to the federal CAA mandates. Construction of the Project would comply with SCAQMD Rule 403 requirements and the ATCM to limit heavy duty diesel motor vehicle idling to no more than 5 minutes at any given time (per SC-AQ-4). Per SCAQMD rules and mandates, as well as the CEQA requirement that significant impacts be mitigated to the extent feasible, these same requirements (i.e., Rule 403 compliance, the implementation of all feasible mitigation measures, and compliance with adopted AQMP emissions control measures) would also be imposed on all construction projects in the Air Basin, which would include the cumulative projects in the Project area. As shown above in Table 10 and Table 11, regional and localized construction emissions associated with the Project would not exceed the SCAQMD daily significance thresholds. As such, the Project's contribution to cumulatively significant construction impacts to air quality would not be cumulatively considerable and cumulative impacts would be less than significant for regional and localized criteria pollutants during construction.

6.2 Operational Impacts

The SCAQMD's approach for assessing cumulative impacts related to operations or long-term implementation is based on attainment of ambient air quality standards in accordance with the requirements of the federal and State Clean Air Acts. As discussed earlier, the SCAQMD has developed a comprehensive plan, the AQMP, which addresses the region's cumulative air quality condition.

A significant impact may occur if a project would add a cumulatively considerable contribution of a federal or State non-attainment pollutant. Because the Los Angeles County portion of the Air Basin is currently in non-attainment for O_3, NO_2, PM10, and PM2.5, cumulative projects could exceed an air quality standard or contribute to an existing or projected air quality exceedance. Cumulative impacts to air quality are evaluated under two sets of thresholds for CEQA and the SCAQMD. In particular, Section 15064(h)(3) of the CEQA *Guidelines* provides guidance in determining the significance of cumulative impacts. Specifically, Section 15064(h)(3) states in part that:

> *"A lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project will comply with the requirements in a previously approved plan or mitigation program which provides specific requirements that will avoid or substantially lessen the cumulative problem (e.g., water quality control plan, air quality plan, integrated waste management plan) within the geographic area in which the project is located. Such plans or programs must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency…"*

For purposes of the cumulative air quality analysis with respect to CEQA Guidelines Section 15064(h)(3), the Project's incremental contribution to cumulative air quality impacts is determined based on compliance with the SCAQMD's adopted 2016 AQMP. The Project would be consistent with the City's zoning designation and growth projections for the area. Therefore, the Project would not conflict with or obstruct implementation of AQMP and would be consistent with the growth projections in the AQMP.

Nonetheless, SCAQMD no longer recommends relying solely upon consistency with the AQMP as an appropriate methodology for assessing cumulative air quality impacts. The SCAQMD recommends that project-specific air quality impacts be used to determine the potential cumulative impacts to regional air quality.

As discussed, the proposed Project would replace or upgrade facilities on the campus of the existing Thomas Jefferson High School, but it would not increase the number of students or faculty at the high school, and would not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy would reduce emissions from space heating and other onsite sources. As discussed previously, the Project would not exceed the SCAQMD regional and local daily significance thresholds. Therefore, the Project's incremental contribution to long-term emissions of non-attainment pollutants and O_3 precursors, considered together with cumulative projects, would not be cumulatively considerable, and therefore the cumulative impact of the Project would be less than significant.

SECTION 7.0
Summary of Results

Air pollutant emissions associated with the Project have been evaluated to determine the level of impact from construction activities and future operations of the Project.

7.1 Construction

Construction of the Project has the potential to create air quality impacts through the use of heavy-duty construction equipment and through vehicle trips generated from construction workers traveling to and from the Project Site. In addition, fugitive dust emissions would result from grading and construction activities. However, use of typical construction equipment (in terms of size and age/emission standards) and compliance with Rule 403 requirements, minimizes air emissions to the extent warranted.

As shown in Table 8, regional construction emissions would not exceed the SCAQMD daily significance thresholds. Therefore, impacts related to regional construction emissions would be less than significant. As shown in Table 9, localized emissions would not exceed the SCAQMD localized significance thresholds. Therefore, impacts related to localized construction emissions would be less than significant. Also, the Project would not expose sensitive receptors to substantial amounts of TACs. As a result, Project-related construction impacts would be less than significant.

7.2 Operation

Air pollutant emissions associated with Project operations would be generated by the consumption of natural gas and by the operation of on-road vehicles. As discussed above, regional and localized operational emissions associated with the Project would not exceed the SCAQMD daily significance thresholds. In addition, the Project would result in less than significant CO hotspot and odor impacts. The Project would be consistent with applicable air quality plans and policies. Therefore, impacts related to Project operational emissions and consistency with applicable air quality management plans, policies, or regulations would be less than significant.

APPENDIX A

Air Quality Emissions Calculation Worksheets

LAUSD Jefferson High School Modernization Project

Air Quality Technical Report

Appendix A, Air Quality Emissions Calculation Worksheets

A.1 Construction Emissions

- Phase 1 Emissions (Summer/Winter)
- Phase 2 Emissions (Summer/Winter)
- Phase 3 Emissions (Summer/Winter)
- Phase 4 Emissions (Summer/Winter)
- Phase 5 Emissions (Summer/Winter)
- AQ Construction Summary
- Haul Truck Emissions

A.2 Construction Health Risk Assessment

- Contaminated Soil Calculations
- HRA Calculations
- HARP2 Outputs

A.1 Construction Emissions

- Phase 1 Emissions (Summer/Winter)
- Phase 2 Emissions (Summer/Winter)
- Phase 3 Emissions (Summer/Winter)
- Phase 4 Emissions (Summer/Winter)
- Phase 5 Emissions (Summer/Winter)
- AQ Construction Summary
- Haul Truck Emissions

LAUSD jefferson HS - Phase 1

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project specific information

Land Use - Project specific information

Construction Phase - Project Specific Information

Off-road Equipment -

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Trips and VMT - Prject specific information

Demolition -

Grading - Estimated form Google earth and Phase description

Energy Use - Project specific information

Construction Off-road Equipment Mitigation - Tier 4 equipment

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	132661	72500
tblAreaCoating	Area_Nonresidential_Interior	397983	217500
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	71.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	5.00
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	11.25	2.00
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	HorsePower	247.00	203.00
tblOffRoadEquipment	LoadFactor	0.40	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	702.44
tblSolidWaste	SolidWasteGenerationRate	365.00	36.50
tblTripsAndVMT	HaulingTripNumber	0.00	250.00
tblTripsAndVMT	HaulingTripNumber	37.00	93.00
tblTripsAndVMT	VendorTripNumber	43.00	24.00
tblTripsAndVMT	WorkerTripNumber	10.00	150.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	111.00	150.00
tblWater	IndoorWaterUseRate	8,809,920.00	880,992.00
tblWater	OutdoorWaterUseRate	22,654,080.00	2,265,408.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	3.2249	32.2130	22.5687	0.0769	6.2639	1.2746	7.0488	2.9350	1.2087	3.6571	0.0000	8,017.8295	8,017.8295	0.9578	0.0000	8,041.7735

Maximum	**3.2249**	**32.2130**	**22.5687**	**0.0769**	**6.2639**	**1.2746**	**7.0488**	**2.9350**	**1.2087**	**3.6571**	**0.0000**	**8,017.8295**	**8,017.8295**	**0.9578**	**0.0000**	**8,041.7735**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4865	17.3032	23.1061	0.0769	3.4657	0.1051	3.5015	1.4159	0.1014	1.4506	0.0000	8,017.8295	8,017.8295	0.9578	0.0000	8,041.7735
Maximum	**1.4865**	**17.3032**	**23.1061**	**0.0769**	**3.4657**	**0.1051**	**3.5015**	**1.4159**	**0.1014**	**1.4506**	**0.0000**	**8,017.8295**	**8,017.8295**	**0.9578**	**0.0000**	**8,041.7735**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**53.91**	**46.29**	**-2.38**	**0.00**	**44.67**	**91.76**	**50.32**	**51.76**	**91.61**	**60.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Soil Removal	Site Preparation	5/28/2018	6/2/2018	5	5	Contaminate Soil Removal
2	Demolition	Demolition	6/3/2018	8/11/2018	5	50	
3	Grading	Grading	8/12/2018	9/22/2018	5	30	
4	Building Construction	Building Construction	9/23/2018	12/31/2018	5	71	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Soil Removal	Rubber Tired Dozers	0	0.00	203	0.36
Soil Removal	Rubber Tired Loaders	2	8.00	203	0.36
Soil Removal	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Soil Removal	4	150.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	93.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Soil Removal - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3918	15.9093	8.1443	0.0187		0.7338	0.7338		0.6751	0.6751		1,883.2769	1,883.2769	0.5863		1,897.9341
Total	**1.3918**	**15.9093**	**8.1443**	**0.0187**	**0.0000**	**0.7338**	**0.7338**	**0.0000**	**0.6751**	**0.6751**		**1,883.2769**	**1,883.2769**	**0.5863**		**1,897.9341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4545	15.7260	3.0463	0.0398	0.8733	0.0609	0.9342	0.2393	0.0582	0.2975		4,306.4725	4,306.4725	0.3090		4,314.1973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8014	0.5777	7.5046	0.0184	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,828.0802	1,828.0802	0.0625		1,829.6421
Total	**1.2559**	**16.3038**	**10.5509**	**0.0582**	**2.5500**	**0.0743**	**2.6243**	**0.6840**	**0.0706**	**0.7546**		**6,134.5526**	**6,134.5526**	**0.3715**		**6,143.8394**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2306	0.9994	10.3553	0.0187		0.0308	0.0308		0.0308	0.0308	0.0000	1,883.2769	1,883.2769	0.5863		1,897.9341
Total	**0.2306**	**0.9994**	**10.3553**	**0.0187**	**0.0000**	**0.0308**	**0.0308**	**0.0000**	**0.0308**	**0.0308**	**0.0000**	**1,883.2769**	**1,883.2769**	**0.5863**		**1,897.9341**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4545	15.7260	3.0463	0.0398	0.8733	0.0609	0.9342	0.2393	0.0582	0.2975		4,306.4725	4,306.4725	0.3090		4,314.1973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8014	0.5777	7.5046	0.0184	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,828.0802	1,828.0802	0.0625		1,829.6421
Total	**1.2559**	**16.3038**	**10.5509**	**0.0582**	**2.5500**	**0.0743**	**2.6243**	**0.6840**	**0.0706**	**0.7546**		**6,134.5526**	**6,134.5526**	**0.3715**		**6,143.8394**

3.3 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1588	0.0000	0.1588	0.0240	0.0000	0.0240			0.0000			0.0000
Off-Road	2.4067	22.6255	14.9508	0.0249		1.2589	1.2589		1.1941	1.1941		2,444.0203	2,444.0203	0.5473		2,457.7038
Total	**2.4067**	**22.6255**	**14.9508**	**0.0249**	**0.1588**	**1.2589**	**1.4177**	**0.0240**	**1.1941**	**1.2182**		**2,444.0203**	**2,444.0203**	**0.5473**		**2,457.7038**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0169	0.5850	0.1133	1.4800e-003	0.0325	2.2600e-003	0.0348	8.9000e-003	2.1700e-003	0.0111		160.2008	160.2008	0.0115		160.4881
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8014	0.5777	7.5046	0.0184	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,828.0802	1,828.0802	0.0625		1,829.6421
Total	**0.8183**	**1.1628**	**7.6179**	**0.0199**	**1.7091**	**0.0157**	**1.7248**	**0.4536**	**0.0146**	**0.4681**		**1,988.2809**	**1,988.2809**	**0.0740**		**1,990.1303**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0619	0.0000	0.0619	9.3800e-003	0.0000	9.3800e-003			0.0000			0.0000

Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,444.0203	2,444.0203	0.5473		2,457.7038
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.0619**	**0.0377**	**0.0997**	**9.3800e-003**	**0.0377**	**0.0471**	**0.0000**	**2,444.0203**	**2,444.0203**	**0.5473**		**2,457.7038**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0169	0.5850	0.1133	1.4800e-003	0.0325	2.2600e-003	0.0348	8.9000e-003	2.1700e-003	0.0111		160.2008	160.2008	0.0115		160.4881
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8014	0.5777	7.5046	0.0184	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,828.0802	1,828.0802	0.0625		1,829.6421
Total	**0.8183**	**1.1628**	**7.6179**	**0.0199**	**1.7091**	**0.0157**	**1.7248**	**0.4536**	**0.0146**	**0.4681**		**1,988.2809**	**1,988.2809**	**0.0740**		**1,990.1303**

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5873	0.0000	4.5873	2.4903	0.0000	2.4903			0.0000			0.0000
Off-Road	1.4639	16.7379	6.4709	0.0137		0.7714	0.7714		0.7097	0.7097		1,382.1635	1,382.1635	0.4303		1,392.9206
Total	**1.4639**	**16.7379**	**6.4709**	**0.0137**	**4.5873**	**0.7714**	**5.3587**	**2.4903**	**0.7097**	**3.2000**		**1,382.1635**	**1,382.1635**	**0.4303**		**1,392.9206**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8014	0.5777	7.5046	0.0184	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,828.0802	1,828.0802	0.0625		1,829.6421
Total	**0.8014**	**0.5777**	**7.5046**	**0.0184**	**1.6767**	**0.0135**	**1.6901**	**0.4447**	**0.0124**	**0.4571**		**1,828.0802**	**1,828.0802**	**0.0625**		**1,829.6421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7890	0.0000	1.7890	0.9712	0.0000	0.9712			0.0000			0.0000
Off-Road	0.1678	0.7269	6.8629	0.0137		0.0224	0.0224		0.0224	0.0224	0.0000	1,382.1635	1,382.1635	0.4303		1,392.9206
Total	**0.1678**	**0.7269**	**6.8629**	**0.0137**	**1.7890**	**0.0224**	**1.8114**	**0.9712**	**0.0224**	**0.9936**	**0.0000**	**1,382.1635**	**1,382.1635**	**0.4303**		**1,392.9206**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8014	0.5777	7.5046	0.0184	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,828.0802	1,828.0802	0.0625		1,829.6421
Total	**0.8014**	**0.5777**	**7.5046**	**0.0184**	**1.6767**	**0.0135**	**1.6901**	**0.4447**	**0.0124**	**0.4571**		**1,828.0802**	**1,828.0802**	**0.0625**		**1,829.6421**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3289	10.9101	8.1266	0.0132		0.6632	0.6632		0.6327	0.6327		1,263.1058	1,263.1058	0.2629		1,269.6775
Total	**1.3289**	**10.9101**	**8.1266**	**0.0132**		**0.6632**	**0.6632**		**0.6327**	**0.6327**		**1,263.1058**	**1,263.1058**	**0.2629**		**1,269.6775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1032	2.9158	0.7401	6.2300e-003	0.1536	0.0213	0.1749	0.0442	0.0204	0.0646		664.8221	664.8221	0.0459		665.9701
Worker	0.8014	0.5777	7.5046	0.0184	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,828.0802	1,828.0802	0.0625		1,829.6421
Total	**0.9046**	**3.4936**	**8.2447**	**0.0246**	**1.8302**	**0.0348**	**1.8650**	**0.4889**	**0.0328**	**0.5217**		**2,492.9022**	**2,492.9022**	**0.1084**		**2,495.6122**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,263.1058	1,263.1058	0.2629		1,269.6775
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,263.1058**	**1,263.1058**	**0.2629**		**1,269.6775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1032	2.9158	0.7401	6.2300e-003	0.1536	0.0213	0.1749	0.0442	0.0204	0.0646		664.8221	664.8221	0.0459		665.9701
Worker	0.8014	0.5777	7.5046	0.0184	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,828.0802	1,828.0802	0.0625		1,829.6421
Total	**0.9046**	**3.4936**	**8.2447**	**0.0246**	**1.8302**	**0.0348**	**1.8650**	**0.4889**	**0.0328**	**0.5217**		**2,492.9022**	**2,492.9022**	**0.1084**		**2,495.6122**

LAUSD jefferson HS - Phase 1

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project specific information

Land Use - Project specific information

Construction Phase - Project Specific Information

Off-road Equipment -

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Trips and VMT - Prject specific information

Demolition -

Grading - Estimated form Google earth and Phase description

Energy Use - Project specific information

Construction Off-road Equipment Mitigation - Tier 4 equipment

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	132661	72500
tblAreaCoating	Area_Nonresidential_Interior	397983	217500
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	71.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	5.00
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	11.25	2.00
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	HorsePower	247.00	203.00
tblOffRoadEquipment	LoadFactor	0.40	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	702.44
tblSolidWaste	SolidWasteGenerationRate	365.00	36.50
tblTripsAndVMT	HaulingTripNumber	0.00	250.00
tblTripsAndVMT	HaulingTripNumber	37.00	93.00
tblTripsAndVMT	VendorTripNumber	43.00	24.00
tblTripsAndVMT	WorkerTripNumber	10.00	150.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	111.00	150.00
tblWater	IndoorWaterUseRate	8,809,920.00	880,992.00
tblWater	OutdoorWaterUseRate	22,654,080.00	2,265,408.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	3.3028	32.4904	21.9114	0.0751	6.2639	1.2747	7.0488	2.9350	1.2087	3.6571	0.0000	7,833.1224	7,833.1224	0.9667	0.0000	7,857.2906

Maximum	**3.3028**	**32.4904**	**21.9114**	**0.0751**	**6.2639**	**1.2747**	**7.0488**	**2.9350**	**1.2087**	**3.6571**	**0.0000**	**7,833.1224**	**7,833.1224**	**0.9667**	**0.0000**	**7,857.2906**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.5762	17.5806	22.4488	0.0751	3.4657	0.1062	3.5015	1.4159	0.1025	1.4506	0.0000	7,833.1224	7,833.1224	0.9667	0.0000	7,857.2906
Maximum	**1.5762**	**17.5806**	**22.4488**	**0.0751**	**3.4657**	**0.1062**	**3.5015**	**1.4159**	**0.1025**	**1.4506**	**0.0000**	**7,833.1224**	**7,833.1224**	**0.9667**	**0.0000**	**7,857.2906**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**52.28**	**45.89**	**-2.45**	**0.00**	**44.67**	**91.67**	**50.32**	**51.76**	**91.52**	**60.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Soil Removal	Site Preparation	5/28/2018	6/2/2018	5	5	Contaminate Soil Removal
2	Demolition	Demolition	6/3/2018	8/11/2018	5	50	
3	Grading	Grading	8/12/2018	9/22/2018	5	30	
4	Building Construction	Building Construction	9/23/2018	12/31/2018	5	71	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Soil Removal	Rubber Tired Dozers	0	0.00	203	0.36
Soil Removal	Rubber Tired Loaders	2	8.00	203	0.36
Soil Removal	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Soil Removal	4	150.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	93.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Soil Removal - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.3918	15.9093	8.1443	0.0187		0.7338	0.7338		0.6751	0.6751		1,883.2769	1,883.2769	0.5863		1,897.9341
Total	**1.3918**	**15.9093**	**8.1443**	**0.0187**	**0.0000**	**0.7338**	**0.7338**	**0.0000**	**0.6751**	**0.6751**		**1,883.2769**	**1,883.2769**	**0.5863**		**1,897.9341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4668	15.9463	3.2768	0.0392	0.8733	0.0620	0.9354	0.2393	0.0594	0.2987		4,234.9668	4,234.9668	0.3217		4,243.0095
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8788	0.6349	6.8387	0.0172	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,714.8788	1,714.8788	0.0587		1,716.3470
Total	**1.3456**	**16.5812**	**10.1155**	**0.0564**	**2.5500**	**0.0755**	**2.6255**	**0.6840**	**0.0717**	**0.7557**		**5,949.8455**	**5,949.8455**	**0.3804**		**5,959.3565**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2306	0.9994	10.3553	0.0187		0.0308	0.0308		0.0308	0.0308	0.0000	1,883.2769	1,883.2769	0.5863		1,897.9341
Total	**0.2306**	**0.9994**	**10.3553**	**0.0187**	**0.0000**	**0.0308**	**0.0308**	**0.0000**	**0.0308**	**0.0308**	**0.0000**	**1,883.2769**	**1,883.2769**	**0.5863**		**1,897.9341**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4668	15.9463	3.2768	0.0392	0.8733	0.0620	0.9354	0.2393	0.0594	0.2987		4,234.9668	4,234.9668	0.3217		4,243.0095
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8788	0.6349	6.8387	0.0172	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,714.8788	1,714.8788	0.0587		1,716.3470
Total	**1.3456**	**16.5812**	**10.1155**	**0.0564**	**2.5500**	**0.0755**	**2.6255**	**0.6840**	**0.0717**	**0.7557**		**5,949.8455**	**5,949.8455**	**0.3804**		**5,959.3565**

3.3 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1588	0.0000	0.1588	0.0240	0.0000	0.0240			0.0000			0.0000
Off-Road	2.4067	22.6255	14.9508	0.0249		1.2589	1.2589		1.1941	1.1941		2,444.0203	2,444.0203	0.5473		2,457.7038
Total	**2.4067**	**22.6255**	**14.9508**	**0.0249**	**0.1588**	**1.2589**	**1.4177**	**0.0240**	**1.1941**	**1.2182**		**2,444.0203**	**2,444.0203**	**0.5473**		**2,457.7038**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0174	0.5932	0.1219	1.4600e-003	0.0325	2.3100e-003	0.0348	8.9000e-003	2.2100e-003	0.0111		157.5408	157.5408	0.0120		157.8400
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8788	0.6349	6.8387	0.0172	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,714.8788	1,714.8788	0.0587		1,716.3470
Total	**0.8962**	**1.2281**	**6.9606**	**0.0187**	**1.7091**	**0.0158**	**1.7249**	**0.4536**	**0.0146**	**0.4682**		**1,872.4195**	**1,872.4195**	**0.0707**		**1,874.1870**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0619	0.0000	0.0619	9.3800e-003	0.0000	9.3800e-003			0.0000			0.0000

Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,444.0203	2,444.0203	0.5473		2,457.7038
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.0619**	**0.0377**	**0.0997**	**9.3800e-003**	**0.0377**	**0.0471**	**0.0000**	**2,444.0203**	**2,444.0203**	**0.5473**		**2,457.7038**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0174	0.5932	0.1219	1.4600e-003	0.0325	2.3100e-003	0.0348	8.9000e-003	2.2100e-003	0.0111		157.5408	157.5408	0.0120		157.8400
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8788	0.6349	6.8387	0.0172	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,714.8788	1,714.8788	0.0587		1,716.3470
Total	**0.8962**	**1.2281**	**6.9606**	**0.0187**	**1.7091**	**0.0158**	**1.7249**	**0.4536**	**0.0146**	**0.4682**		**1,872.4195**	**1,872.4195**	**0.0707**		**1,874.1870**

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5873	0.0000	4.5873	2.4903	0.0000	2.4903			0.0000			0.0000
Off-Road	1.4639	16.7379	6.4709	0.0137		0.7714	0.7714		0.7097	0.7097		1,382.1635	1,382.1635	0.4303		1,392.9206
Total	**1.4639**	**16.7379**	**6.4709**	**0.0137**	**4.5873**	**0.7714**	**5.3587**	**2.4903**	**0.7097**	**3.2000**		**1,382.1635**	**1,382.1635**	**0.4303**		**1,392.9206**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8788	0.6349	6.8387	0.0172	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,714.8788	1,714.8788	0.0587		1,716.3470
Total	**0.8788**	**0.6349**	**6.8387**	**0.0172**	**1.6767**	**0.0135**	**1.6901**	**0.4447**	**0.0124**	**0.4571**		**1,714.8788**	**1,714.8788**	**0.0587**		**1,716.3470**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7890	0.0000	1.7890	0.9712	0.0000	0.9712			0.0000			0.0000
Off-Road	0.1678	0.7269	6.8629	0.0137		0.0224	0.0224		0.0224	0.0224	0.0000	1,382.1635	1,382.1635	0.4303		1,392.9206
Total	**0.1678**	**0.7269**	**6.8629**	**0.0137**	**1.7890**	**0.0224**	**1.8114**	**0.9712**	**0.0224**	**0.9936**	**0.0000**	**1,382.1635**	**1,382.1635**	**0.4303**		**1,392.9206**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8788	0.6349	6.8387	0.0172	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,714.8788	1,714.8788	0.0587		1,716.3470
Total	**0.8788**	**0.6349**	**6.8387**	**0.0172**	**1.6767**	**0.0135**	**1.6901**	**0.4447**	**0.0124**	**0.4571**		**1,714.8788**	**1,714.8788**	**0.0587**		**1,716.3470**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3289	10.9101	8.1266	0.0132		0.6632	0.6632		0.6327	0.6327		1,263.1058	1,263.1058	0.2629		1,269.6775
Total	**1.3289**	**10.9101**	**8.1266**	**0.0132**		**0.6632**	**0.6632**		**0.6327**	**0.6327**		**1,263.1058**	**1,263.1058**	**0.2629**		**1,269.6775**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1076	2.9220	0.8173	6.0700e-003	0.1536	0.0216	0.1752	0.0442	0.0207	0.0649		647.1392	647.1392	0.0491		648.3668
Worker	0.8788	0.6349	6.8387	0.0172	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,714.8788	1,714.8788	0.0587		1,716.3470
Total	**0.9864**	**3.5569**	**7.6560**	**0.0233**	**1.8302**	**0.0351**	**1.8653**	**0.4889**	**0.0331**	**0.5220**		**2,362.0179**	**2,362.0179**	**0.1078**		**2,364.7139**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,263.1058	1,263.1058	0.2629		1,269.6775
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,263.1058**	**1,263.1058**	**0.2629**		**1,269.6775**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1076	2.9220	0.8173	6.0700e-003	0.1536	0.0216	0.1752	0.0442	0.0207	0.0649		647.1392	647.1392	0.0491		648.3668
Worker	0.8788	0.6349	6.8387	0.0172	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571		1,714.8788	1,714.8788	0.0587		1,716.3470
Total	**0.9864**	**3.5569**	**7.6560**	**0.0233**	**1.8302**	**0.0351**	**1.8653**	**0.4889**	**0.0331**	**0.5220**		**2,362.0179**	**2,362.0179**	**0.1078**		**2,364.7139**

LAUSD Jefferson HS - Phase 2

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth Estimation of Phase 2

Construction Off-road Equipment Mitigation - Tier 4 equipment

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	23.63	3.20
tblLandUse	LotAcreage	6.09	18.90

tblTripsAndVMT	HaulingTripNumber	0.00	102.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.9795	21.9356	21.6114	0.0435	6.2471	1.1594	6.9772	2.9331	1.0974	3.6048	0.0000	4,282.2923	4,282.2923	0.6009	0.0000	4,297.3148
2020	1.8002	12.0178	14.4856	0.0366	1.8302	0.5211	2.3513	0.4889	0.4969	0.9858	0.0000	3,609.3322	3,609.3322	0.3399	0.0000	3,617.8294
Maximum	**2.9795**	**21.9356**	**21.6114**	**0.0435**	**6.2471**	**1.1594**	**6.9772**	**2.9331**	**1.0974**	**3.6048**	**0.0000**	**4,282.2923**	**4,282.2923**	**0.6009**	**0.0000**	**4,297.3148**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.0205	4.5697	22.2718	0.0435	3.4591	0.0521	3.4946	1.4152	0.0510	1.4496	0.0000	4,282.2923	4,282.2923	0.6009	0.0000	4,297.3148
2020	0.9128	4.2876	14.8209	0.0366	1.8302	0.0445	1.8747	0.4889	0.0429	0.5318	0.0000	3,609.3322	3,609.3322	0.3399	0.0000	3,617.8294
Maximum	**1.0205**	**4.5697**	**22.2718**	**0.0435**	**3.4591**	**0.0521**	**3.4946**	**1.4152**	**0.0510**	**1.4496**	**0.0000**	**4,282.2923**	**4,282.2923**	**0.6009**	**0.0000**	**4,297.3148**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	59.55	73.91	-2.76	0.00	34.52	94.26	42.44	44.36	94.11	56.84	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	5/10/2019	5	94	
2	Grading	Grading	5/13/2019	8/7/2019	5	63	
3	Building Construction	Building Construction	8/8/2019	12/31/2020	5	366	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38

Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	102.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0931	0.0000	0.0931	0.0141	0.0000	0.0141			0.0000			0.0000
Off-Road	2.2419	21.1028	14.8278	0.0249		1.1451	1.1451		1.0841	1.0841		2,419.4185	2,419.4185	0.5388		2,432.8881
Total	**2.2419**	**21.1028**	**14.8278**	**0.0249**	**0.0931**	**1.1451**	**1.2382**	**0.0141**	**1.0841**	**1.0982**		**2,419.4185**	**2,419.4185**	**0.5388**		**2,432.8881**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.3400e-003	0.3231	0.0646	8.5000e-004	0.0190	1.2100e-003	0.0202	5.1900e-003	1.1600e-003	6.3500e-003		92.3317	92.3317	6.6200e-003		92.4972
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7282	0.5097	6.7190	0.0178	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,770.5422	1,770.5422	0.0555		1,771.9295
Total	**0.7376**	**0.8328**	**6.7836**	**0.0186**	**1.6956**	**0.0143**	**1.7099**	**0.4498**	**0.0133**	**0.4631**		**1,862.8739**	**1,862.8739**	**0.0621**		**1,864.4268**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0363	0.0000	0.0363	5.5000e-003	0.0000	5.5000e-003			0.0000			0.0000
Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,419.4185	2,419.4185	0.5388		2,432.8881
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.0363**	**0.0377**	**0.0740**	**5.5000e-003**	**0.0377**	**0.0432**	**0.0000**	**2,419.4185**	**2,419.4185**	**0.5388**		**2,432.8881**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	9.3400e-003	0.3231	0.0646	8.5000e-004	0.0190	1.2100e-003	0.0202	5.1900e-003	1.1600e-003	6.3500e-003		92.3317	92.3317	6.6200e-003		92.4972
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7282	0.5097	6.7190	0.0178	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,770.5422	1,770.5422	0.0555		1,771.9295
Total	**0.7376**	**0.8328**	**6.7836**	**0.0186**	**1.6956**	**0.0143**	**1.7099**	**0.4498**	**0.0133**	**0.4631**		**1,862.8739**	**1,862.8739**	**0.0621**		**1,864.4268**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5704	0.0000	4.5704	2.4885	0.0000	2.4885			0.0000			0.0000
Off-Road	1.3906	15.7435	6.3186	0.0137		0.7170	0.7170		0.6596	0.6596		1,357.9481	1,357.9481	0.4296		1,368.6891
Total	**1.3906**	**15.7435**	**6.3186**	**0.0137**	**4.5704**	**0.7170**	**5.2874**	**2.4885**	**0.6596**	**3.1481**		**1,357.9481**	**1,357.9481**	**0.4296**		**1,368.6891**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7282	0.5097	6.7190	0.0178	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,770.5422	1,770.5422	0.0555		1,771.9295
Total	**0.7282**	**0.5097**	**6.7190**	**0.0178**	**1.6767**	**0.0131**	**1.6898**	**0.4447**	**0.0121**	**0.4568**		**1,770.5422**	**1,770.5422**	**0.0555**		**1,771.9295**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7825	0.0000	1.7825	0.9705	0.0000	0.9705			0.0000			0.0000
Off-Road	0.1678	0.7269	6.8629	0.0137		0.0224	0.0224		0.0224	0.0224	0.0000	1,357.9481	1,357.9481	0.4296		1,368.6891
Total	**0.1678**	**0.7269**	**6.8629**	**0.0137**	**1.7825**	**0.0224**	**1.8048**	**0.9705**	**0.0224**	**0.9929**	**0.0000**	**1,357.9481**	**1,357.9481**	**0.4296**		**1,368.6891**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7282	0.5097	6.7190	0.0178	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,770.5422	1,770.5422	0.0555		1,771.9295
Total	**0.7282**	**0.5097**	**6.7190**	**0.0178**	**1.6767**	**0.0131**	**1.6898**	**0.4447**	**0.0121**	**0.4568**		**1,770.5422**	**1,770.5422**	**0.0555**		**1,771.9295**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1685	9.8794	7.9169	0.0132		0.5715	0.5715		0.5453	0.5453		1,252.6362	1,252.6362	0.2549		1,259.0077
Total	**1.1685**	**9.8794**	**7.9169**	**0.0132**		**0.5715**	**0.5715**		**0.5453**	**0.5453**		**1,252.6362**	**1,252.6362**	**0.2549**		**1,259.0077**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0935	2.7550	0.6794	6.1700e-003	0.1536	0.0183	0.1718	0.0442	0.0175	0.0617		658.8292	658.8292	0.0443		659.9374
Worker	0.7282	0.5097	6.7190	0.0178	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,770.5422	1,770.5422	0.0555		1,771.9295
Total	**0.8218**	**3.2647**	**7.3983**	**0.0240**	**1.8302**	**0.0314**	**1.8616**	**0.4889**	**0.0296**	**0.5184**		**2,429.3714**	**2,429.3714**	**0.0998**		**2,431.8669**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,252.6362	1,252.6362	0.2549		1,259.0077

Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,252.6362**	**1,252.6362**	**0.2549**		**1,259.0077**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0935	2.7550	0.6794	6.1700e-003	0.1536	0.0183	0.1718	0.0442	0.0175	0.0617		658.8292	658.8292	0.0443		659.9374
Worker	0.7282	0.5097	6.7190	0.0178	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,770.5422	1,770.5422	0.0555		1,771.9295
Total	**0.8218**	**3.2647**	**7.3983**	**0.0240**	**1.8302**	**0.0314**	**1.8616**	**0.4889**	**0.0296**	**0.5184**		**2,429.3714**	**2,429.3714**	**0.0998**		**2,431.8669**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0477	9.0352	7.7571	0.0132		0.4958	0.4958		0.4731	0.4731		1,238.8785	1,238.8785	0.2485		1,245.0920
Total	**1.0477**	**9.0352**	**7.7571**	**0.0132**		**0.4958**	**0.4958**		**0.4731**	**0.4731**		**1,238.8785**	**1,238.8785**	**0.2485**		**1,245.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0797	2.5277	0.6149	6.1200e-003	0.1536	0.0125	0.1661	0.0442	0.0120	0.0562		654.6991	654.6991	0.0419		655.7468
Worker	0.6728	0.4548	6.1137	0.0172	1.6767	0.0128	1.6894	0.4447	0.0118	0.4564		1,715.7545	1,715.7545	0.0495		1,716.9906
Total	**0.7525**	**2.9826**	**6.7286**	**0.0233**	**1.8302**	**0.0253**	**1.8555**	**0.4889**	**0.0238**	**0.5126**		**2,370.4536**	**2,370.4536**	**0.0914**		**2,372.7374**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,238.8785	1,238.8785	0.2485		1,245.0920
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,238.8785**	**1,238.8785**	**0.2485**		**1,245.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0797	2.5277	0.6149	6.1200e-003	0.1536	0.0125	0.1661	0.0442	0.0120	0.0562		654.6991	654.6991	0.0419		655.7468
Worker	0.6728	0.4548	6.1137	0.0172	1.6767	0.0128	1.6894	0.4447	0.0118	0.4564		1,715.7545	1,715.7545	0.0495		1,716.9906
Total	**0.7525**	**2.9826**	**6.7286**	**0.0233**	**1.8302**	**0.0253**	**1.8555**	**0.4889**	**0.0238**	**0.5126**		**2,370.4536**	**2,370.4536**	**0.0914**		**2,372.7374**

LAUSD Jefferson HS - Phase 2

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth Estimation of Phase 2

Construction Off-road Equipment Mitigation - Tier 4 equipment

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	23.63	3.20
tblLandUse	LotAcreage	6.09	18.90

tblTripsAndVMT	HaulingTripNumber	0.00	102.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.0513	21.9903	21.0017	0.0424	6.2471	1.1594	6.9772	2.9331	1.0974	3.6048	0.0000	4,170.9488	4,170.9488	0.5977	0.0000	4,185.8923
2020	1.8712	12.0616	13.9821	0.0353	1.8302	0.5213	2.3515	0.4889	0.4971	0.9859	0.0000	3,485.0612	3,485.0612	0.3397	0.0000	3,493.5523
Maximum	**3.0513**	**21.9903**	**21.0017**	**0.0424**	**6.2471**	**1.1594**	**6.9772**	**2.9331**	**1.0974**	**3.6048**	**0.0000**	**4,170.9488**	**4,170.9488**	**0.5977**	**0.0000**	**4,185.8923**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.0923	4.6234	21.6621	0.0424	3.4591	0.0521	3.4946	1.4152	0.0510	1.4496	0.0000	4,170.9488	4,170.9488	0.5977	0.0000	4,185.8923
2020	0.9837	4.3314	14.3173	0.0353	1.8302	0.0447	1.8749	0.4889	0.0431	0.5320	0.0000	3,485.0612	3,485.0612	0.3397	0.0000	3,493.5523
Maximum	**1.0923**	**4.6234**	**21.6621**	**0.0424**	**3.4591**	**0.0521**	**3.4946**	**1.4152**	**0.0510**	**1.4496**	**0.0000**	**4,170.9488**	**4,170.9488**	**0.5977**	**0.0000**	**4,185.8923**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	57.82	73.70	-2.85	0.00	34.52	94.24	42.44	44.36	94.10	56.84	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	5/10/2019	5	94	
2	Grading	Grading	5/13/2019	8/7/2019	5	63	
3	Building Construction	Building Construction	8/8/2019	12/31/2020	5	366	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38

Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	102.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0931	0.0000	0.0931	0.0141	0.0000	0.0141			0.0000			0.0000
Off-Road	2.2419	21.1028	14.8278	0.0249		1.1451	1.1451		1.0841	1.0841		2,419.4185	2,419.4185	0.5388		2,432.8881
Total	**2.2419**	**21.1028**	**14.8278**	**0.0249**	**0.0931**	**1.1451**	**1.2382**	**0.0141**	**1.0841**	**1.0982**		**2,419.4185**	**2,419.4185**	**0.5388**		**2,432.8881**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5900e-003	0.3275	0.0694	8.4000e-004	0.0190	1.2300e-003	0.0202	5.1900e-003	1.1800e-003	6.3700e-003		90.7793	90.7793	6.8900e-003		90.9515
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7998	0.5600	6.1046	0.0167	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,660.7510	1,660.7510	0.0521		1,662.0528
Total	**0.8094**	**0.8875**	**6.1739**	**0.0175**	**1.6956**	**0.0144**	**1.7100**	**0.4498**	**0.0133**	**0.4631**		**1,751.5303**	**1,751.5303**	**0.0590**		**1,753.0042**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0363	0.0000	0.0363	5.5000e-003	0.0000	5.5000e-003			0.0000			0.0000
Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,419.4185	2,419.4185	0.5388		2,432.8881
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.0363**	**0.0377**	**0.0740**	**5.5000e-003**	**0.0377**	**0.0432**	**0.0000**	**2,419.4185**	**2,419.4185**	**0.5388**		**2,432.8881**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	9.5900e-003	0.3275	0.0694	8.4000e-004	0.0190	1.2300e-003	0.0202	5.1900e-003	1.1800e-003	6.3700e-003		90.7793	90.7793	6.8900e-003		90.9515
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7998	0.5600	6.1046	0.0167	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,660.7510	1,660.7510	0.0521		1,662.0528
Total	**0.8094**	**0.8875**	**6.1739**	**0.0175**	**1.6956**	**0.0144**	**1.7100**	**0.4498**	**0.0133**	**0.4631**		**1,751.5303**	**1,751.5303**	**0.0590**		**1,753.0042**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5704	0.0000	4.5704	2.4885	0.0000	2.4885			0.0000			0.0000
Off-Road	1.3906	15.7435	6.3186	0.0137		0.7170	0.7170		0.6596	0.6596		1,357.9481	1,357.9481	0.4296		1,368.6891
Total	**1.3906**	**15.7435**	**6.3186**	**0.0137**	**4.5704**	**0.7170**	**5.2874**	**2.4885**	**0.6596**	**3.1481**		**1,357.9481**	**1,357.9481**	**0.4296**		**1,368.6891**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7998	0.5600	6.1046	0.0167	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,660.7510	1,660.7510	0.0521		1,662.0528
Total	**0.7998**	**0.5600**	**6.1046**	**0.0167**	**1.6767**	**0.0131**	**1.6898**	**0.4447**	**0.0121**	**0.4568**		**1,660.7510**	**1,660.7510**	**0.0521**		**1,662.0528**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7825	0.0000	1.7825	0.9705	0.0000	0.9705			0.0000			0.0000
Off-Road	0.1678	0.7269	6.8629	0.0137		0.0224	0.0224		0.0224	0.0224	0.0000	1,357.9481	1,357.9481	0.4296		1,368.6891
Total	**0.1678**	**0.7269**	**6.8629**	**0.0137**	**1.7825**	**0.0224**	**1.8048**	**0.9705**	**0.0224**	**0.9929**	**0.0000**	**1,357.9481**	**1,357.9481**	**0.4296**		**1,368.6891**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7998	0.5600	6.1046	0.0167	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,660.7510	1,660.7510	0.0521		1,662.0528
Total	**0.7998**	**0.5600**	**6.1046**	**0.0167**	**1.6767**	**0.0131**	**1.6898**	**0.4447**	**0.0121**	**0.4568**		**1,660.7510**	**1,660.7510**	**0.0521**		**1,662.0528**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1685	9.8794	7.9169	0.0132		0.5715	0.5715		0.5453	0.5453		1,252.6362	1,252.6362	0.2549		1,259.0077
Total	**1.1685**	**9.8794**	**7.9169**	**0.0132**		**0.5715**	**0.5715**		**0.5453**	**0.5453**		**1,252.6362**	**1,252.6362**	**0.2549**		**1,259.0077**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0976	2.7584	0.7524	6.0000e-003	0.1536	0.0186	0.1721	0.0442	0.0178	0.0620		641.1334	641.1334	0.0474		642.3187
Worker	0.7998	0.5600	6.1046	0.0167	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,660.7510	1,660.7510	0.0521		1,662.0528
Total	**0.8974**	**3.3184**	**6.8570**	**0.0227**	**1.8302**	**0.0317**	**1.8619**	**0.4889**	**0.0298**	**0.5187**		**2,301.8845**	**2,301.8845**	**0.0995**		**2,304.3715**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,252.6362	1,252.6362	0.2549		1,259.0077

Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,252.6362**	**1,252.6362**	**0.2549**		**1,259.0077**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0976	2.7584	0.7524	6.0000e-003	0.1536	0.0186	0.1721	0.0442	0.0178	0.0620		641.1334	641.1334	0.0474		642.3187
Worker	0.7998	0.5600	6.1046	0.0167	1.6767	0.0131	1.6898	0.4447	0.0121	0.4568		1,660.7510	1,660.7510	0.0521		1,662.0528
Total	**0.8974**	**3.3184**	**6.8570**	**0.0227**	**1.8302**	**0.0317**	**1.8619**	**0.4889**	**0.0298**	**0.5187**		**2,301.8845**	**2,301.8845**	**0.0995**		**2,304.3715**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0477	9.0352	7.7571	0.0132		0.4958	0.4958		0.4731	0.4731		1,238.8785	1,238.8785	0.2485		1,245.0920
Total	**1.0477**	**9.0352**	**7.7571**	**0.0132**		**0.4958**	**0.4958**		**0.4731**	**0.4731**		**1,238.8785**	**1,238.8785**	**0.2485**		**1,245.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0833	2.5268	0.6813	5.9600e-003	0.1536	0.0127	0.1663	0.0442	0.0122	0.0564		636.9057	636.9057	0.0448		638.0254
Worker	0.7402	0.4996	5.5437	0.0162	1.6767	0.0128	1.6894	0.4447	0.0118	0.4564		1,609.2769	1,609.2769	0.0463		1,610.4349
Total	**0.8235**	**3.0264**	**6.2251**	**0.0221**	**1.8302**	**0.0255**	**1.8557**	**0.4889**	**0.0239**	**0.5128**		**2,246.1827**	**2,246.1827**	**0.0911**		**2,248.4603**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,238.8785	1,238.8785	0.2485		1,245.0920
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,238.8785**	**1,238.8785**	**0.2485**		**1,245.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0833	2.5268	0.6813	5.9600e-003	0.1536	0.0127	0.1663	0.0442	0.0122	0.0564		636.9057	636.9057	0.0448		638.0254
Worker	0.7402	0.4996	5.5437	0.0162	1.6767	0.0128	1.6894	0.4447	0.0118	0.4564		1,609.2769	1,609.2769	0.0463		1,610.4349
Total	**0.8235**	**3.0264**	**6.2251**	**0.0221**	**1.8302**	**0.0255**	**1.8557**	**0.4889**	**0.0239**	**0.5128**		**2,246.1827**	**2,246.1827**	**0.0911**		**2,248.4603**

LAUSD Jefferson HS - Phase 3

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimates of Phase 3 area

Construction Off-road Equipment Mitigation - Project specific information

Demolition -

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	24.75	2.75
tblLandUse	LotAcreage	6.09	18.90
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	PhaseName		Demolition
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
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tblTripsAndVMT	HaulingTripNumber	0.00	1,025.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00
tblTripsAndVMT	WorkerTripNumber	12.00	150.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.6606	21.4585	20.8328	0.0505	6.2374	0.9573	6.8737	2.9321	0.9039	3.5176	0.0000	5,018.3576	5,018.3576	0.6404	0.0000	5,034.3667
2022	33.6658	9.9864	15.7883	0.0406	3.3533	0.3811	3.6085	0.8893	0.3634	1.1307	0.0000	4,015.2588	4,015.2588	0.3194	0.0000	4,022.0414
Maximum	**33.6658**	**21.4585**	**20.8328**	**0.0505**	**6.2374**	**0.9573**	**6.8737**	**2.9321**	**0.9039**	**3.5176**	**0.0000**	**5,018.3576**	**5,018.3576**	**0.6404**	**0.0000**	**5,034.3667**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.9992	4.6556	21.7873	0.0505	3.4553	0.0596	3.4901	1.4148	0.0582	1.4486	0.0000	5,018.3576	5,018.3576	0.6404	0.0000	5,034.3667
2022	33.2786	3.8581	16.4091	0.0406	3.3533	0.0371	3.3904	0.8893	0.0352	0.9245	0.0000	4,015.2588	4,015.2588	0.3194	0.0000	4,022.0414
Maximum	**33.2786**	**4.6556**	**21.7873**	**0.0505**	**3.4553**	**0.0596**	**3.4901**	**1.4148**	**0.0582**	**1.4486**	**0.0000**	**5,018.3576**	**5,018.3576**	**0.6404**	**0.0000**	**5,034.3667**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.64**	**72.93**	**-4.30**	**0.00**	**29.01**	**92.78**	**34.36**	**39.71**	**92.64**	**48.95**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	5/4/2021	5	88	
2	Grading	Grading	5/5/2021	8/4/2021	5	66	
3	Building Construction	Building Construction	8/5/2021	11/2/2022	5	325	
4	Paving	Paving	11/3/2022	12/31/2022	5	42	
5	Architectural Coating	Architectural Coating	11/3/2022	12/31/2022	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,500; Non-Residential Outdoor: 72,500; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	1,025.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9970	0.0000	0.9970	0.1510	0.0000	0.1510			0.0000			0.0000
Off-Road	1.9443	18.0290	14.5336	0.0249		0.9354	0.9354		0.8835	0.8835		2,387.4475	2,387.4475	0.5272		2,400.6278
Total	**1.9443**	**18.0290**	**14.5336**	**0.0249**	**0.9970**	**0.9354**	**1.9324**	**0.1510**	**0.8835**	**1.0344**		**2,387.4475**	**2,387.4475**	**0.5272**		**2,400.6278**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0885	3.0200	0.6671	8.9300e-003	0.2034	9.4100e-003	0.2129	0.0557	9.0100e-003	0.0648		970.5627	970.5627	0.0684		972.2727
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6278	0.4095	5.6320	0.0167	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,660.3474	1,660.3474	0.0448		1,661.4662
Total	**0.7163**	**3.4295**	**6.2991**	**0.0256**	**1.8801**	**0.0218**	**1.9019**	**0.5004**	**0.0204**	**0.5208**		**2,630.9101**	**2,630.9101**	**0.1132**		**2,633.7389**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3888	0.0000	0.3888	0.0589	0.0000	0.0589			0.0000			0.0000
Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,387.4475	2,387.4475	0.5272		2,400.6278
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.3888**	**0.0377**	**0.4266**	**0.0589**	**0.0377**	**0.0966**	**0.0000**	**2,387.4475**	**2,387.4475**	**0.5272**		**2,400.6278**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0885	3.0200	0.6671	8.9300e-003	0.2034	9.4100e-003	0.2129	0.0557	9.0100e-003	0.0648		970.5627	970.5627	0.0684		972.2727
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6278	0.4095	5.6320	0.0167	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,660.3474	1,660.3474	0.0448		1,661.4662
Total	**0.7163**	**3.4295**	**6.2991**	**0.0256**	**1.8801**	**0.0218**	**1.9019**	**0.5004**	**0.0204**	**0.5208**		**2,630.9101**	**2,630.9101**	**0.1132**		**2,633.7389**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					4.5608	0.0000	4.5608	2.4874	0.0000	2.4874			0.0000			0.0000
Off-Road	1.2650	14.0938	6.0489	0.0137		0.6239	0.6239		0.5740	0.5740		1,327.4523	1,327.4523	0.4293		1,338.1854
Total	**1.2650**	**14.0938**	**6.0489**	**0.0137**	**4.5608**	**0.6239**	**5.1847**	**2.4874**	**0.5740**	**3.0615**		**1,327.4523**	**1,327.4523**	**0.4293**		**1,338.1854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6278	0.4095	5.6320	0.0167	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,660.3474	1,660.3474	0.0448		1,661.4662
Total	**0.6278**	**0.4095**	**5.6320**	**0.0167**	**1.6767**	**0.0124**	**1.6891**	**0.4447**	**0.0114**	**0.4561**		**1,660.3474**	**1,660.3474**	**0.0448**		**1,661.4662**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7787	0.0000	1.7787	0.9701	0.0000	0.9701			0.0000			0.0000
Off-Road	0.1678	0.7269	6.8629	0.0137		0.0224	0.0224		0.0224	0.0224	0.0000	1,327.4523	1,327.4523	0.4293		1,338.1854
Total	**0.1678**	**0.7269**	**6.8629**	**0.0137**	**1.7787**	**0.0224**	**1.8011**	**0.9701**	**0.0224**	**0.9925**	**0.0000**	**1,327.4523**	**1,327.4523**	**0.4293**		**1,338.1854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6278	0.4095	5.6320	0.0167	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,660.3474	1,660.3474	0.0448		1,661.4662
Total	**0.6278**	**0.4095**	**5.6320**	**0.0167**	**1.6767**	**0.0124**	**1.6891**	**0.4447**	**0.0114**	**0.4561**		**1,660.3474**	**1,660.3474**	**0.0448**		**1,661.4662**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9390	8.2372	7.6151	0.0132		0.4264	0.4264		0.4068	0.4068		1,238.9518	1,238.9518	0.2434		1,245.0357
Total	**0.9390**	**8.2372**	**7.6151**	**0.0132**		**0.4264**	**0.4264**		**0.4068**	**0.4068**		**1,238.9518**	**1,238.9518**	**0.2434**		**1,245.0357**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0675	2.2984	0.5581	6.0700e-003	0.1536	4.6900e-003	0.1583	0.0442	4.4900e-003	0.0487		649.7850	649.7850	0.0402		650.7895
Worker	0.6278	0.4095	5.6320	0.0167	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,660.3474	1,660.3474	0.0448		1,661.4662
Total	**0.6953**	**2.7079**	**6.1901**	**0.0227**	**1.8302**	**0.0171**	**1.8473**	**0.4889**	**0.0159**	**0.5048**		**2,310.1324**	**2,310.1324**	**0.0849**		**2,312.2557**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,238.9518	1,238.9518	0.2434		1,245.0357
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,238.9518**	**1,238.9518**	**0.2434**		**1,245.0357**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0675	2.2984	0.5581	6.0700e-003	0.1536	4.6900e-003	0.1583	0.0442	4.4900e-003	0.0487		649.7850	649.7850	0.0402		650.7895
Worker	0.6278	0.4095	5.6320	0.0167	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,660.3474	1,660.3474	0.0448		1,661.4662

Total	**0.6953**	**2.7079**	**6.1901**	**0.0227**	**1.8302**	**0.0171**	**1.8473**	**0.4889**	**0.0159**	**0.5048**		**2,310.1324**	**2,310.1324**	**0.0849**		**2,312.2557**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8503	7.4334	7.5188	0.0132		0.3650	0.3650		0.3484	0.3484		1,239.2517	1,239.2517	0.2402		1,245.2559
Total	**0.8503**	**7.4334**	**7.5188**	**0.0132**		**0.3650**	**0.3650**		**0.3484**	**0.3484**		**1,239.2517**	**1,239.2517**	**0.2402**		**1,245.2559**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0634	2.1831	0.5284	6.0100e-003	0.1536	4.0800e-003	0.1577	0.0442	3.9100e-003	0.0481		644.0886	644.0886	0.0388		645.0586
Worker	0.5889	0.3699	5.2083	0.0161	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,600.8947	1,600.8947	0.0405		1,601.9061
Total	**0.6523**	**2.5530**	**5.7367**	**0.0221**	**1.8302**	**0.0161**	**1.8464**	**0.4889**	**0.0150**	**0.5039**		**2,244.9833**	**2,244.9833**	**0.0793**		**2,246.9647**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,239.2517	1,239.2517	0.2402		1,245.2559
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,239.2517**	**1,239.2517**	**0.2402**		**1,245.2559**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0634	2.1831	0.5284	6.0100e-003	0.1536	4.0800e-003	0.1577	0.0442	3.9100e-003	0.0481		644.0886	644.0886	0.0388		645.0586
Worker	0.5889	0.3699	5.2083	0.0161	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,600.8947	1,600.8947	0.0405		1,601.9061
Total	**0.6523**	**2.5530**	**5.7367**	**0.0221**	**1.8302**	**0.0161**	**1.8464**	**0.4889**	**0.0150**	**0.5039**		**2,244.9833**	**2,244.9833**	**0.0793**		**2,246.9647**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.2799	2.8686	3.5582	5.5000e-003		0.1494	0.1494		0.1374	0.1374		532.0213	532.0213	0.1721		536.3230
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2799**	**2.8686**	**3.5582**	**5.5000e-003**		**0.1494**	**0.1494**		**0.1374**	**0.1374**		**532.0213**	**532.0213**	**0.1721**		**536.3230**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5889	0.3699	5.2083	0.0161	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,600.8947	1,600.8947	0.0405		1,601.9061
Total	**0.5889**	**0.3699**	**5.2083**	**0.0161**	**1.6767**	**0.0121**	**1.6887**	**0.4447**	**0.0111**	**0.4558**		**1,600.8947**	**1,600.8947**	**0.0405**		**1,601.9061**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0675	0.2923	4.1601	5.5000e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	532.0213	532.0213	0.1721		536.3230
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0675**	**0.2923**	**4.1601**	**5.5000e-003**		**8.9900e-003**	**8.9900e-003**		**8.9900e-003**	**8.9900e-003**	**0.0000**	**532.0213**	**532.0213**	**0.1721**		**536.3230**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5889	0.3699	5.2083	0.0161	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,600.8947	1,600.8947	0.0405		1,601.9061
Total	**0.5889**	**0.3699**	**5.2083**	**0.0161**	**1.6767**	**0.0121**	**1.6887**	**0.4447**	**0.0111**	**0.4558**		**1,600.8947**	**1,600.8947**	**0.0405**		**1,601.9061**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.0036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**32.2081**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5889	0.3699	5.2083	0.0161	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,600.8947	1,600.8947	0.0405		1,601.9061
Total	**0.5889**	**0.3699**	**5.2083**	**0.0161**	**1.6767**	**0.0121**	**1.6887**	**0.4447**	**0.0111**	**0.4558**		**1,600.8947**	**1,600.8947**	**0.0405**		**1,601.9061**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.0036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**32.0333**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5889	0.3699	5.2083	0.0161	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,600.8947	1,600.8947	0.0405		1,601.9061

Total	**0.5889**	**0.3699**	**5.2083**	**0.0161**	**1.6767**	**0.0121**	**1.6887**	**0.4447**	**0.0111**	**0.4558**		**1,600.8947**	**1,600.8947**	**0.0405**		**1,601.9061**

LAUSD Jefferson HS - Phase 3

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimates of Phase 3 area

Construction Off-road Equipment Mitigation - Project specific information

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	24.75	2.75
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,025.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00
tblTripsAndVMT	WorkerTripNumber	12.00	150.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.7269	21.5359	20.3424	0.0493	6.2374	0.9574	6.8737	2.9321	0.9041	3.5176	0.0000	4,898.5725	4,898.5725	0.6401	0.0000	4,914.5738
2022	33.7892	10.0160	14.7839	0.0386	3.3533	0.3812	3.6085	0.8893	0.3635	1.1307	0.0000	3,816.4059	3,816.4059	0.3194	0.0000	3,823.0571
Maximum	**33.7892**	**21.5359**	**20.3424**	**0.0493**	**6.2374**	**0.9574**	**6.8737**	**2.9321**	**0.9041**	**3.5176**	**0.0000**	**4,898.5725**	**4,898.5725**	**0.6401**	**0.0000**	**4,914.5738**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.0655	4.7331	21.2969	0.0493	3.4553	0.0597	3.4901	1.4148	0.0583	1.4486	0.0000	4,898.5725	4,898.5725	0.6401	0.0000	4,914.5738
2022	33.4020	3.8876	15.4047	0.0386	3.3533	0.0371	3.3904	0.8893	0.0352	0.9245	0.0000	3,816.4059	3,816.4059	0.3194	0.0000	3,823.0571
Maximum	**33.4020**	**4.7331**	**21.2969**	**0.0493**	**3.4553**	**0.0597**	**3.4901**	**1.4148**	**0.0583**	**1.4486**	**0.0000**	**4,898.5725**	**4,898.5725**	**0.6401**	**0.0000**	**4,914.5738**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.61**	**72.68**	**-4.48**	**0.00**	**29.01**	**92.77**	**34.36**	**39.71**	**92.63**	**48.95**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	5/4/2021	5	88	
2	Grading	Grading	5/5/2021	8/4/2021	5	66	
3	Building Construction	Building Construction	8/5/2021	11/2/2022	5	325	
4	Paving	Paving	11/3/2022	12/31/2022	5	42	
5	Architectural Coating	Architectural Coating	11/3/2022	12/31/2022	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,500; Non-Residential Outdoor: 72,500; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	1,025.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9970	0.0000	0.9970	0.1510	0.0000	0.1510			0.0000			0.0000
Off-Road	1.9443	18.0290	14.5336	0.0249		0.9354	0.9354		0.8835	0.8835		2,387.4475	2,387.4475	0.5272		2,400.6278
Total	**1.9443**	**18.0290**	**14.5336**	**0.0249**	**0.9970**	**0.9354**	**1.9324**	**0.1510**	**0.8835**	**1.0344**		**2,387.4475**	**2,387.4475**	**0.5272**		**2,400.6278**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0908	3.0573	0.7107	8.7800e-003	0.2034	9.5600e-003	0.2130	0.0557	9.1400e-003	0.0649		953.8982	953.8982	0.0710		955.6722
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6918	0.4497	5.0980	0.0156	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,557.2267	1,557.2267	0.0419		1,558.2738
Total	**0.7826**	**3.5069**	**5.8087**	**0.0244**	**1.8801**	**0.0220**	**1.9020**	**0.5004**	**0.0206**	**0.5210**		**2,511.1249**	**2,511.1249**	**0.1128**		**2,513.9460**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3888	0.0000	0.3888	0.0589	0.0000	0.0589			0.0000			0.0000
Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,387.4475	2,387.4475	0.5272		2,400.6278
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.3888**	**0.0377**	**0.4266**	**0.0589**	**0.0377**	**0.0966**	**0.0000**	**2,387.4475**	**2,387.4475**	**0.5272**		**2,400.6278**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0908	3.0573	0.7107	8.7800e-003	0.2034	9.5600e-003	0.2130	0.0557	9.1400e-003	0.0649		953.8982	953.8982	0.0710		955.6722
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6918	0.4497	5.0980	0.0156	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,557.2267	1,557.2267	0.0419		1,558.2738
Total	**0.7826**	**3.5069**	**5.8087**	**0.0244**	**1.8801**	**0.0220**	**1.9020**	**0.5004**	**0.0206**	**0.5210**		**2,511.1249**	**2,511.1249**	**0.1128**		**2,513.9460**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					4.5608	0.0000	4.5608	2.4874	0.0000	2.4874			0.0000			0.0000
Off-Road	1.2650	14.0938	6.0489	0.0137		0.6239	0.6239		0.5740	0.5740		1,327.4523	1,327.4523	0.4293		1,338.1854
Total	**1.2650**	**14.0938**	**6.0489**	**0.0137**	**4.5608**	**0.6239**	**5.1847**	**2.4874**	**0.5740**	**3.0615**		**1,327.4523**	**1,327.4523**	**0.4293**		**1,338.1854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6918	0.4497	5.0980	0.0156	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,557.2267	1,557.2267	0.0419		1,558.2738
Total	**0.6918**	**0.4497**	**5.0980**	**0.0156**	**1.6767**	**0.0124**	**1.6891**	**0.4447**	**0.0114**	**0.4561**		**1,557.2267**	**1,557.2267**	**0.0419**		**1,558.2738**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7787	0.0000	1.7787	0.9701	0.0000	0.9701			0.0000			0.0000
Off-Road	0.1678	0.7269	6.8629	0.0137		0.0224	0.0224		0.0224	0.0224	0.0000	1,327.4523	1,327.4523	0.4293		1,338.1854
Total	**0.1678**	**0.7269**	**6.8629**	**0.0137**	**1.7787**	**0.0224**	**1.8011**	**0.9701**	**0.0224**	**0.9925**	**0.0000**	**1,327.4523**	**1,327.4523**	**0.4293**		**1,338.1854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6918	0.4497	5.0980	0.0156	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,557.2267	1,557.2267	0.0419		1,558.2738
Total	**0.6918**	**0.4497**	**5.0980**	**0.0156**	**1.6767**	**0.0124**	**1.6891**	**0.4447**	**0.0114**	**0.4561**		**1,557.2267**	**1,557.2267**	**0.0419**		**1,558.2738**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9390	8.2372	7.6151	0.0132		0.4264	0.4264		0.4068	0.4068		1,238.9518	1,238.9518	0.2434		1,245.0357
Total	**0.9390**	**8.2372**	**7.6151**	**0.0132**		**0.4264**	**0.4264**		**0.4068**	**0.4068**		**1,238.9518**	**1,238.9518**	**0.2434**		**1,245.0357**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0709	2.2930	0.6204	5.9100e-003	0.1536	4.8400e-003	0.1584	0.0442	4.6300e-003	0.0488		632.0971	632.0971	0.0429		633.1706
Worker	0.6918	0.4497	5.0980	0.0156	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,557.2267	1,557.2267	0.0419		1,558.2738
Total	**0.7627**	**2.7427**	**5.7184**	**0.0215**	**1.8302**	**0.0173**	**1.8475**	**0.4889**	**0.0161**	**0.5049**		**2,189.3238**	**2,189.3238**	**0.0848**		**2,191.4444**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,238.9518	1,238.9518	0.2434		1,245.0357
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,238.9518**	**1,238.9518**	**0.2434**		**1,245.0357**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0709	2.2930	0.6204	5.9100e-003	0.1536	4.8400e-003	0.1584	0.0442	4.6300e-003	0.0488		632.0971	632.0971	0.0429		633.1706
Worker	0.6918	0.4497	5.0980	0.0156	1.6767	0.0124	1.6891	0.4447	0.0114	0.4561		1,557.2267	1,557.2267	0.0419		1,558.2738

Total	**0.7627**	**2.7427**	**5.7184**	**0.0215**	**1.8302**	**0.0173**	**1.8475**	**0.4889**	**0.0161**	**0.5049**		**2,189.3238**	**2,189.3238**	**0.0848**		**2,191.4444**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8503	7.4334	7.5188	0.0132		0.3650	0.3650		0.3484	0.3484		1,239.2517	1,239.2517	0.2402		1,245.2559
Total	**0.8503**	**7.4334**	**7.5188**	**0.0132**		**0.3650**	**0.3650**		**0.3484**	**0.3484**		**1,239.2517**	**1,239.2517**	**0.2402**		**1,245.2559**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0666	2.1764	0.5876	5.8500e-003	0.1536	4.2200e-003	0.1578	0.0442	4.0300e-003	0.0482		626.4531	626.4531	0.0414		627.4889
Worker	0.6506	0.4061	4.7061	0.0151	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,501.4683	1,501.4683	0.0378		1,502.4140
Total	**0.7172**	**2.5826**	**5.2937**	**0.0209**	**1.8302**	**0.0163**	**1.8465**	**0.4889**	**0.0151**	**0.5040**		**2,127.9213**	**2,127.9213**	**0.0793**		**2,129.9029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,239.2517	1,239.2517	0.2402		1,245.2559
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,239.2517**	**1,239.2517**	**0.2402**		**1,245.2559**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0666	2.1764	0.5876	5.8500e-003	0.1536	4.2200e-003	0.1578	0.0442	4.0300e-003	0.0482		626.4531	626.4531	0.0414		627.4889
Worker	0.6506	0.4061	4.7061	0.0151	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,501.4683	1,501.4683	0.0378		1,502.4140
Total	**0.7172**	**2.5826**	**5.2937**	**0.0209**	**1.8302**	**0.0163**	**1.8465**	**0.4889**	**0.0151**	**0.5040**		**2,127.9213**	**2,127.9213**	**0.0793**		**2,129.9029**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.2799	2.8686	3.5582	5.5000e-003		0.1494	0.1494		0.1374	0.1374		532.0213	532.0213	0.1721		536.3230
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2799**	**2.8686**	**3.5582**	**5.5000e-003**		**0.1494**	**0.1494**		**0.1374**	**0.1374**		**532.0213**	**532.0213**	**0.1721**		**536.3230**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6506	0.4061	4.7061	0.0151	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,501.4683	1,501.4683	0.0378		1,502.4140
Total	**0.6506**	**0.4061**	**4.7061**	**0.0151**	**1.6767**	**0.0121**	**1.6887**	**0.4447**	**0.0111**	**0.4558**		**1,501.4683**	**1,501.4683**	**0.0378**		**1,502.4140**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0675	0.2923	4.1601	5.5000e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	532.0213	532.0213	0.1721		536.3230
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0675**	**0.2923**	**4.1601**	**5.5000e-003**		**8.9900e-003**	**8.9900e-003**		**8.9900e-003**	**8.9900e-003**	**0.0000**	**532.0213**	**532.0213**	**0.1721**		**536.3230**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6506	0.4061	4.7061	0.0151	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,501.4683	1,501.4683	0.0378		1,502.4140
Total	**0.6506**	**0.4061**	**4.7061**	**0.0151**	**1.6767**	**0.0121**	**1.6887**	**0.4447**	**0.0111**	**0.4558**		**1,501.4683**	**1,501.4683**	**0.0378**		**1,502.4140**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.0036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**32.2081**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6506	0.4061	4.7061	0.0151	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,501.4683	1,501.4683	0.0378		1,502.4140
Total	**0.6506**	**0.4061**	**4.7061**	**0.0151**	**1.6767**	**0.0121**	**1.6887**	**0.4447**	**0.0111**	**0.4558**		**1,501.4683**	**1,501.4683**	**0.0378**		**1,502.4140**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.0036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**32.0333**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6506	0.4061	4.7061	0.0151	1.6767	0.0121	1.6887	0.4447	0.0111	0.4558		1,501.4683	1,501.4683	0.0378		1,502.4140

Total	**0.6506**	**0.4061**	**4.7061**	**0.0151**	**1.6767**	**0.0121**	**1.6887**	**0.4447**	**0.0111**	**0.4558**		**1,501.4683**	**1,501.4683**	**0.0378**		**1,502.4140**

LAUSD Jefferson HS - Phase 4

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2025
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimate for Phase 4 area

Construction Off-road Equipment Mitigation - Tier 4 equipment

Off-road Equipment -

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	24.75	3.94
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	PhaseName		Demolition
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	287.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00
tblTripsAndVMT	WorkerTripNumber	12.00	150.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.0735	14.1008	18.7412	0.0427	6.2565	0.6564	6.6789	2.9342	0.6209	3.3227	0.0000	4,185.6954	4,185.6954	0.5728	0.0000	4,200.0142
2024	33.4795	8.3914	14.3490	0.0384	3.3533	0.2931	3.5589	0.8893	0.2792	1.0833	0.0000	3,794.3943	3,794.3943	0.3015	0.0000	3,800.7642
Maximum	**33.4795**	**14.1008**	**18.7412**	**0.0427**	**6.2565**	**0.6564**	**6.6789**	**2.9342**	**0.6209**	**3.3227**	**0.0000**	**4,185.6954**	**4,185.6954**	**0.5728**	**0.0000**	**4,200.0142**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.8522	3.2856	20.4664	0.0427	3.4628	0.0504	3.4969	1.4156	0.0494	1.4487	0.0000	4,185.6954	4,185.6954	0.5728	0.0000	4,200.0142
2024	33.1490	3.2515	14.9741	0.0384	3.3533	0.0361	3.3894	0.8893	0.0343	0.9236	0.0000	3,794.3943	3,794.3943	0.3015	0.0000	3,800.7642
Maximum	**33.1490**	**3.2856**	**20.4664**	**0.0427**	**3.4628**	**0.0504**	**3.4969**	**1.4156**	**0.0494**	**1.4487**	**0.0000**	**4,185.6954**	**4,185.6954**	**0.5728**	**0.0000**	**4,200.0142**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.37**	**70.94**	**-7.10**	**0.00**	**29.07**	**90.89**	**32.74**	**39.72**	**90.70**	**46.16**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	5/3/2023	5	88	
2	Grading	Grading	5/4/2023	8/3/2023	5	66	
3	Building Construction	Building Construction	8/4/2023	11/1/2024	5	326	
4	Paving	Paving	11/4/2024	12/31/2024	5	42	
5	Architectural Coating	Architectural Coating	11/4/2024	12/31/2024	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.94

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,500; Non-Residential Outdoor: 72,500; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	287.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2787	0.0000	0.2787	0.0422	0.0000	0.0422			0.0000			0.0000
Off-Road	1.5043	13.2615	13.7630	0.0249		0.6437	0.6437		0.6092	0.6092		2,386.9229	2,386.9229	0.5188		2,399.8915
Total	**1.5043**	**13.2615**	**13.7630**	**0.0249**	**0.2787**	**0.6437**	**0.9224**	**0.0422**	**0.6092**	**0.6514**		**2,386.9229**	**2,386.9229**	**0.5188**		**2,399.8915**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0155	0.5047	0.1686	2.3600e-003	0.0570	9.4000e-004	0.0579	0.0156	9.0000e-004	0.0165		257.5076	257.5076	0.0175		257.9455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5538	0.3347	4.8096	0.0155	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,541.2649	1,541.2649	0.0365		1,542.1772
Total	**0.5692**	**0.8394**	**4.9782**	**0.0178**	**1.7336**	**0.0127**	**1.7463**	**0.4603**	**0.0117**	**0.4720**		**1,798.7725**	**1,798.7725**	**0.0540**		**1,800.1227**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1087	0.0000	0.1087	0.0165	0.0000	0.0165			0.0000			0.0000
Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,386.9229	2,386.9229	0.5188		2,399.8915
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.1087**	**0.0377**	**0.1464**	**0.0165**	**0.0377**	**0.0542**	**0.0000**	**2,386.9229**	**2,386.9229**	**0.5188**		**2,399.8915**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0155	0.5047	0.1686	2.3600e-003	0.0570	9.4000e-004	0.0579	0.0156	9.0000e-004	0.0165		257.5076	257.5076	0.0175		257.9455
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5538	0.3347	4.8096	0.0155	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,541.2649	1,541.2649	0.0365		1,542.1772
Total	**0.5692**	**0.8394**	**4.9782**	**0.0178**	**1.7336**	**0.0127**	**1.7463**	**0.4603**	**0.0117**	**0.4720**		**1,798.7725**	**1,798.7725**	**0.0540**		**1,800.1227**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					4.5799	0.0000	4.5799	2.4895	0.0000	2.4895			0.0000			0.0000
Off-Road	0.9146	9.9869	5.2727	0.0137		0.4106	0.4106		0.3778	0.3778		1,327.0743	1,327.0743	0.4292		1,337.8043
Total	**0.9146**	**9.9869**	**5.2727**	**0.0137**	**4.5799**	**0.4106**	**4.9905**	**2.4895**	**0.3778**	**2.8673**		**1,327.0743**	**1,327.0743**	**0.4292**		**1,337.8043**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5538	0.3347	4.8096	0.0155	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,541.2649	1,541.2649	0.0365		1,542.1772
Total	**0.5538**	**0.3347**	**4.8096**	**0.0155**	**1.6767**	**0.0117**	**1.6884**	**0.4447**	**0.0108**	**0.4555**		**1,541.2649**	**1,541.2649**	**0.0365**		**1,542.1772**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7862	0.0000	1.7862	0.9709	0.0000	0.9709			0.0000			0.0000
Off-Road	0.1678	0.7269	6.8629	0.0137		0.0224	0.0224		0.0224	0.0224	0.0000	1,327.0743	1,327.0743	0.4292		1,337.8043
Total	**0.1678**	**0.7269**	**6.8629**	**0.0137**	**1.7862**	**0.0224**	**1.8085**	**0.9709**	**0.0224**	**0.9933**	**0.0000**	**1,327.0743**	**1,327.0743**	**0.4292**		**1,337.8043**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5538	0.3347	4.8096	0.0155	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,541.2649	1,541.2649	0.0365		1,542.1772
Total	**0.5538**	**0.3347**	**4.8096**	**0.0155**	**1.6767**	**0.0117**	**1.6884**	**0.4447**	**0.0108**	**0.4555**		**1,541.2649**	**1,541.2649**	**0.0365**		**1,542.1772**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7864	6.8814	7.4598	0.0132		0.3186	0.3186		0.3041	0.3041		1,239.4993	1,239.4993	0.2370		1,245.4233
Total	**0.7864**	**6.8814**	**7.4598**	**0.0132**		**0.3186**	**0.3186**		**0.3041**	**0.3041**		**1,239.4993**	**1,239.4993**	**0.2370**		**1,245.4233**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0470	1.6458	0.4770	5.8200e-003	0.1536	1.8900e-003	0.1555	0.0442	1.8000e-003	0.0460		624.0875	624.0875	0.0343		624.9450
Worker	0.5538	0.3347	4.8096	0.0155	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,541.2649	1,541.2649	0.0365		1,542.1772
Total	**0.6008**	**1.9805**	**5.2866**	**0.0213**	**1.8302**	**0.0136**	**1.8439**	**0.4889**	**0.0126**	**0.5015**		**2,165.3524**	**2,165.3524**	**0.0708**		**2,167.1222**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,239.4993	1,239.4993	0.2370		1,245.4233
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,239.4993**	**1,239.4993**	**0.2370**		**1,245.4233**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0470	1.6458	0.4770	5.8200e-003	0.1536	1.8900e-003	0.1555	0.0442	1.8000e-003	0.0460		624.0875	624.0875	0.0343		624.9450
Worker	0.5538	0.3347	4.8096	0.0155	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,541.2649	1,541.2649	0.0365		1,542.1772

Total	**0.6008**	**1.9805**	**5.2866**	**0.0213**	**1.8302**	**0.0136**	**1.8439**	**0.4889**	**0.0126**	**0.5015**		**2,165.3524**	**2,165.3524**	**0.0708**		**2,167.1222**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7351	6.4450	7.4142	0.0132		0.2797	0.2797		0.2668	0.2668		1,239.6361	1,239.6361	0.2343		1,245.4926
Total	**0.7351**	**6.4450**	**7.4142**	**0.0132**		**0.2797**	**0.2797**		**0.2668**	**0.2668**		**1,239.6361**	**1,239.6361**	**0.2343**		**1,245.4926**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0460	1.6415	0.4634	5.7900e-003	0.1536	1.8600e-003	0.1554	0.0442	1.7800e-003	0.0460		621.7993	621.7993	0.0338		622.6443
Worker	0.5241	0.3050	4.4908	0.0150	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,490.4827	1,490.4827	0.0335		1,491.3188
Total	**0.5701**	**1.9465**	**4.9542**	**0.0207**	**1.8302**	**0.0134**	**1.8437**	**0.4889**	**0.0124**	**0.5013**		**2,112.2820**	**2,112.2820**	**0.0673**		**2,113.9632**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,239.6361	1,239.6361	0.2343		1,245.4926
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,239.6361**	**1,239.6361**	**0.2343**		**1,245.4926**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0460	1.6415	0.4634	5.7900e-003	0.1536	1.8600e-003	0.1554	0.0442	1.7800e-003	0.0460		621.7993	621.7993	0.0338		622.6443
Worker	0.5241	0.3050	4.4908	0.0150	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,490.4827	1,490.4827	0.0335		1,491.3188
Total	**0.5701**	**1.9465**	**4.9542**	**0.0207**	**1.8302**	**0.0134**	**1.8437**	**0.4889**	**0.0124**	**0.5013**		**2,112.2820**	**2,112.2820**	**0.0673**		**2,113.9632**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.2470	2.4496	3.5573	5.5000e-003		0.1215	0.1215		0.1118	0.1118		531.9809	531.9809	0.1721		536.2823
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2470**	**2.4496**	**3.5573**	**5.5000e-003**		**0.1215**	**0.1215**		**0.1118**	**0.1118**		**531.9809**	**531.9809**	**0.1721**		**536.2823**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5241	0.3050	4.4908	0.0150	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,490.4827	1,490.4827	0.0335		1,491.3188
Total	**0.5241**	**0.3050**	**4.4908**	**0.0150**	**1.6767**	**0.0116**	**1.6882**	**0.4447**	**0.0107**	**0.4553**		**1,490.4827**	**1,490.4827**	**0.0335**		**1,491.3188**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0675	0.2923	4.1601	5.5000e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	531.9809	531.9809	0.1721		536.2823
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0675**	**0.2923**	**4.1601**	**5.5000e-003**		**8.9900e-003**	**8.9900e-003**		**8.9900e-003**	**8.9900e-003**	**0.0000**	**531.9809**	**531.9809**	**0.1721**		**536.2823**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5241	0.3050	4.4908	0.0150	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,490.4827	1,490.4827	0.0335		1,491.3188
Total	**0.5241**	**0.3050**	**4.4908**	**0.0150**	**1.6767**	**0.0116**	**1.6882**	**0.4447**	**0.0107**	**0.4553**		**1,490.4827**	**1,490.4827**	**0.0335**		**1,491.3188**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.0036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**32.1843**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5241	0.3050	4.4908	0.0150	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,490.4827	1,490.4827	0.0335		1,491.3188
Total	**0.5241**	**0.3050**	**4.4908**	**0.0150**	**1.6767**	**0.0116**	**1.6882**	**0.4447**	**0.0107**	**0.4553**		**1,490.4827**	**1,490.4827**	**0.0335**		**1,491.3188**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.0036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**32.0333**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5241	0.3050	4.4908	0.0150	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,490.4827	1,490.4827	0.0335		1,491.3188

Total	**0.5241**	**0.3050**	**4.4908**	**0.0150**	**1.6767**	**0.0116**	**1.6882**	**0.4447**	**0.0107**	**0.4553**		**1,490.4827**	**1,490.4827**	**0.0335**		**1,491.3188**

LAUSD Jefferson HS - Phase 4

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2025
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimate for Phase 4 area

Construction Off-road Equipment Mitigation - Tier 4 equipment

Off-road Equipment -

Demolition -

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	24.75	3.94
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	287.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00
tblTripsAndVMT	WorkerTripNumber	12.00	150.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.1338	14.1365	18.2770	0.0417	6.2565	0.6564	6.6789	2.9342	0.6209	3.3227	0.0000	4,085.5397	4,085.5397	0.5709	0.0000	4,099.8117
2024	33.5963	8.4127	13.4538	0.0365	3.3533	0.2932	3.5589	0.8893	0.2793	1.0833	0.0000	3,608.9565	3,608.9565	0.3013	0.0000	3,615.2141
Maximum	**33.5963**	**14.1365**	**18.2770**	**0.0417**	**6.2565**	**0.6564**	**6.6789**	**2.9342**	**0.6209**	**3.3227**	**0.0000**	**4,085.5397**	**4,085.5397**	**0.5709**	**0.0000**	**4,099.8117**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.9125	3.3093	20.0022	0.0417	3.4628	0.0504	3.4969	1.4156	0.0495	1.4487	0.0000	4,085.5397	4,085.5397	0.5709	0.0000	4,099.8117
2024	33.2657	3.2728	14.0789	0.0365	3.3533	0.0361	3.3894	0.8893	0.0343	0.9236	0.0000	3,608.9565	3,608.9565	0.3013	0.0000	3,615.2141
Maximum	**33.2657**	**3.3093**	**20.0022**	**0.0417**	**3.4628**	**0.0504**	**3.4969**	**1.4156**	**0.0495**	**1.4487**	**0.0000**	**4,085.5397**	**4,085.5397**	**0.5709**	**0.0000**	**4,099.8117**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.34**	**70.81**	**-7.41**	**0.00**	**29.07**	**90.89**	**32.74**	**39.72**	**90.70**	**46.16**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	5/3/2023	5	88	
2	Grading	Grading	5/4/2023	8/3/2023	5	66	
3	Building Construction	Building Construction	8/4/2023	11/1/2024	5	326	
4	Paving	Paving	11/4/2024	12/31/2024	5	42	
5	Architectural Coating	Architectural Coating	11/4/2024	12/31/2024	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.94

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,500; Non-Residential Outdoor: 72,500; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	287.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2787	0.0000	0.2787	0.0422	0.0000	0.0422			0.0000			0.0000
Off-Road	1.5043	13.2615	13.7630	0.0249		0.6437	0.6437		0.6092	0.6092		2,386.9229	2,386.9229	0.5188		2,399.8915
Total	**1.5043**	**13.2615**	**13.7630**	**0.0249**	**0.2787**	**0.6437**	**0.9224**	**0.0422**	**0.6092**	**0.6514**		**2,386.9229**	**2,386.9229**	**0.5188**		**2,399.8915**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0159	0.5076	0.1764	2.3200e-003	0.0570	9.6000e-004	0.0579	0.0156	9.2000e-004	0.0165		253.0780	253.0780	0.0181		253.5292
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6136	0.3674	4.3376	0.0145	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,445.5389	1,445.5389	0.0341		1,446.3910
Total	**0.6295**	**0.8750**	**4.5140**	**0.0168**	**1.7336**	**0.0127**	**1.7463**	**0.4603**	**0.0117**	**0.4720**		**1,698.6169**	**1,698.6169**	**0.0521**		**1,699.9202**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1087	0.0000	0.1087	0.0165	0.0000	0.0165			0.0000			0.0000
Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,386.9229	2,386.9229	0.5188		2,399.8915
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.1087**	**0.0377**	**0.1464**	**0.0165**	**0.0377**	**0.0542**	**0.0000**	**2,386.9229**	**2,386.9229**	**0.5188**		**2,399.8915**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0159	0.5076	0.1764	2.3200e-003	0.0570	9.6000e-004	0.0579	0.0156	9.2000e-004	0.0165		253.0780	253.0780	0.0181		253.5292
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6136	0.3674	4.3376	0.0145	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,445.5389	1,445.5389	0.0341		1,446.3910
Total	**0.6295**	**0.8750**	**4.5140**	**0.0168**	**1.7336**	**0.0127**	**1.7463**	**0.4603**	**0.0117**	**0.4720**		**1,698.6169**	**1,698.6169**	**0.0521**		**1,699.9202**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Fugitive Dust					4.5799	0.0000	4.5799	2.4895	0.0000	2.4895			0.0000			0.0000
Off-Road	0.9146	9.9869	5.2727	0.0137		0.4106	0.4106		0.3778	0.3778		1,327.0743	1,327.0743	0.4292		1,337.8043
Total	**0.9146**	**9.9869**	**5.2727**	**0.0137**	**4.5799**	**0.4106**	**4.9905**	**2.4895**	**0.3778**	**2.8673**		**1,327.0743**	**1,327.0743**	**0.4292**		**1,337.8043**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6136	0.3674	4.3376	0.0145	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,445.5389	1,445.5389	0.0341		1,446.3910
Total	**0.6136**	**0.3674**	**4.3376**	**0.0145**	**1.6767**	**0.0117**	**1.6884**	**0.4447**	**0.0108**	**0.4555**		**1,445.5389**	**1,445.5389**	**0.0341**		**1,446.3910**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7862	0.0000	1.7862	0.9709	0.0000	0.9709			0.0000			0.0000
Off-Road	0.1678	0.7269	6.8629	0.0137		0.0224	0.0224		0.0224	0.0224	0.0000	1,327.0743	1,327.0743	0.4292		1,337.8043
Total	**0.1678**	**0.7269**	**6.8629**	**0.0137**	**1.7862**	**0.0224**	**1.8085**	**0.9709**	**0.0224**	**0.9933**	**0.0000**	**1,327.0743**	**1,327.0743**	**0.4292**		**1,337.8043**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6136	0.3674	4.3376	0.0145	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,445.5389	1,445.5389	0.0341		1,446.3910
Total	**0.6136**	**0.3674**	**4.3376**	**0.0145**	**1.6767**	**0.0117**	**1.6884**	**0.4447**	**0.0108**	**0.4555**		**1,445.5389**	**1,445.5389**	**0.0341**		**1,446.3910**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7864	6.8814	7.4598	0.0132		0.3186	0.3186		0.3041	0.3041		1,239.4993	1,239.4993	0.2370		1,245.4233
Total	**0.7864**	**6.8814**	**7.4598**	**0.0132**		**0.3186**	**0.3186**		**0.3041**	**0.3041**		**1,239.4993**	**1,239.4993**	**0.2370**		**1,245.4233**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0494	1.6369	0.5211	5.6600e-003	0.1536	1.9800e-003	0.1556	0.0442	1.8900e-003	0.0461		607.2723	607.2723	0.0364		608.1818
Worker	0.6136	0.3674	4.3376	0.0145	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,445.5389	1,445.5389	0.0341		1,446.3910
Total	**0.6631**	**2.0043**	**4.8587**	**0.0202**	**1.8302**	**0.0137**	**1.8439**	**0.4889**	**0.0127**	**0.5016**		**2,052.8112**	**2,052.8112**	**0.0705**		**2,054.5729**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,239.4993	1,239.4993	0.2370		1,245.4233
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,239.4993**	**1,239.4993**	**0.2370**		**1,245.4233**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0494	1.6369	0.5211	5.6600e-003	0.1536	1.9800e-003	0.1556	0.0442	1.8900e-003	0.0461		607.2723	607.2723	0.0364		608.1818
Worker	0.6136	0.3674	4.3376	0.0145	1.6767	0.0117	1.6884	0.4447	0.0108	0.4555		1,445.5389	1,445.5389	0.0341		1,446.3910

Total	**0.6631**	**2.0043**	**4.8587**	**0.0202**	**1.8302**	**0.0137**	**1.8439**	**0.4889**	**0.0127**	**0.5016**		**2,052.8112**	**2,052.8112**	**0.0705**		**2,054.5729**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7351	6.4450	7.4142	0.0132		0.2797	0.2797		0.2668	0.2668		1,239.6361	1,239.6361	0.2343		1,245.4926
Total	**0.7351**	**6.4450**	**7.4142**	**0.0132**		**0.2797**	**0.2797**		**0.2668**	**0.2668**		**1,239.6361**	**1,239.6361**	**0.2343**		**1,245.4926**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0483	1.6331	0.5063	5.6400e-003	0.1536	1.9500e-003	0.1555	0.0442	1.8600e-003	0.0461		605.1650	605.1650	0.0358		606.0604
Worker	0.5825	0.3347	4.0432	0.0140	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,397.7638	1,397.7638	0.0312		1,398.5438
Total	**0.6308**	**1.9678**	**4.5494**	**0.0197**	**1.8302**	**0.0135**	**1.8438**	**0.4889**	**0.0125**	**0.5014**		**2,002.9287**	**2,002.9287**	**0.0670**		**2,004.6042**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1603	1.3050	8.0923	0.0132		0.0192	0.0192		0.0192	0.0192	0.0000	1,239.6361	1,239.6361	0.2343		1,245.4926
Total	**0.1603**	**1.3050**	**8.0923**	**0.0132**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**1,239.6361**	**1,239.6361**	**0.2343**		**1,245.4926**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0483	1.6331	0.5063	5.6400e-003	0.1536	1.9500e-003	0.1555	0.0442	1.8600e-003	0.0461		605.1650	605.1650	0.0358		606.0604
Worker	0.5825	0.3347	4.0432	0.0140	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,397.7638	1,397.7638	0.0312		1,398.5438
Total	**0.6308**	**1.9678**	**4.5494**	**0.0197**	**1.8302**	**0.0135**	**1.8438**	**0.4889**	**0.0125**	**0.5014**		**2,002.9287**	**2,002.9287**	**0.0670**		**2,004.6042**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.2470	2.4496	3.5573	5.5000e-003		0.1215	0.1215		0.1118	0.1118		531.9809	531.9809	0.1721		536.2823
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2470**	**2.4496**	**3.5573**	**5.5000e-003**		**0.1215**	**0.1215**		**0.1118**	**0.1118**		**531.9809**	**531.9809**	**0.1721**		**536.2823**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5825	0.3347	4.0432	0.0140	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,397.7638	1,397.7638	0.0312		1,398.5438
Total	**0.5825**	**0.3347**	**4.0432**	**0.0140**	**1.6767**	**0.0116**	**1.6882**	**0.4447**	**0.0107**	**0.4553**		**1,397.7638**	**1,397.7638**	**0.0312**		**1,398.5438**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0675	0.2923	4.1601	5.5000e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	531.9809	531.9809	0.1721		536.2823
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0675**	**0.2923**	**4.1601**	**5.5000e-003**		**8.9900e-003**	**8.9900e-003**		**8.9900e-003**	**8.9900e-003**	**0.0000**	**531.9809**	**531.9809**	**0.1721**		**536.2823**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5825	0.3347	4.0432	0.0140	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,397.7638	1,397.7638	0.0312		1,398.5438
Total	**0.5825**	**0.3347**	**4.0432**	**0.0140**	**1.6767**	**0.0116**	**1.6882**	**0.4447**	**0.0107**	**0.4553**		**1,397.7638**	**1,397.7638**	**0.0312**		**1,398.5438**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.0036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**32.1843**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5825	0.3347	4.0432	0.0140	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,397.7638	1,397.7638	0.0312		1,398.5438
Total	**0.5825**	**0.3347**	**4.0432**	**0.0140**	**1.6767**	**0.0116**	**1.6882**	**0.4447**	**0.0107**	**0.4553**		**1,397.7638**	**1,397.7638**	**0.0312**		**1,398.5438**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	32.0036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**32.0333**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5825	0.3347	4.0432	0.0140	1.6767	0.0116	1.6882	0.4447	0.0107	0.4553		1,397.7638	1,397.7638	0.0312		1,398.5438

Total	**0.5825**	**0.3347**	**4.0432**	**0.0140**	**1.6767**	**0.0116**	**1.6882**	**0.4447**	**0.0107**	**0.4553**		**1,397.7638**	**1,397.7638**	**0.0312**		**1,398.5438**

LAUSD Jefferson HS - Phase 5

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2027
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimate for Phase 5

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 equipment

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	11.25	4.95

tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	417.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	10.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	1.8970	13.1757	18.2777	0.0452	6.3682	0.5363	6.7617	2.9462	0.5057	3.3083	0.0000	4,471.3984	4,471.3984	0.5891	0.0000	4,486.1248
Maximum	**1.8970**	**13.1757**	**18.2777**	**0.0452**	**6.3682**	**0.5363**	**6.7617**	**2.9462**	**0.5057**	**3.3083**	**0.0000**	**4,471.3984**	**4,471.3984**	**0.5891**	**0.0000**	**4,486.1248**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					

2025	1.1362	2.7676	20.1027	0.0452	3.5069	0.0514	3.5442	1.4203	0.0504	1.4569	0.0000	4,471.3984	4,471.3984	0.5891	0.0000	4,486.1248
Maximum	**1.1362**	**2.7676**	**20.1027**	**0.0452**	**3.5069**	**0.0514**	**3.5442**	**1.4203**	**0.0504**	**1.4569**	**0.0000**	**4,471.3984**	**4,471.3984**	**0.5891**	**0.0000**	**4,486.1248**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**40.11**	**78.99**	**-9.98**	**0.00**	**44.93**	**90.41**	**47.58**	**51.79**	**90.03**	**55.96**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2025	3/11/2025	5	50	
2	Grading	Grading	3/12/2025	4/22/2025	5	30	
3	Building Construction	Building Construction	4/23/2025	6/3/2025	5	30	
4	Paving	Paving	6/3/2025	6/30/2025	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.95

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40

Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	150.00	0.00	417.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	2	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7143	0.0000	0.7143	0.1082	0.0000	0.1082			0.0000			0.0000
Off-Road	1.3596	11.6342	13.6632	0.0249		0.5226	0.5226		0.4930	0.4930		2,387.3390	2,387.3390	0.5139		2,400.1866
Total	**1.3596**	**11.6342**	**13.6632**	**0.0249**	**0.7143**	**0.5226**	**1.2369**	**0.1082**	**0.4930**	**0.6011**		**2,387.3390**	**2,387.3390**	**0.5139**		**2,400.1866**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0396	1.2626	0.4403	5.9700e-003	0.1457	2.3400e-003	0.1480	0.0399	2.2400e-003	0.0422		652.2232	652.2232	0.0447		653.3396
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4978	0.2790	4.1742	0.0144	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,431.8363	1,431.8363	0.0305		1,432.5986
Total	**0.5374**	**1.5415**	**4.6145**	**0.0203**	**1.8223**	**0.0137**	**1.8360**	**0.4846**	**0.0127**	**0.4973**		**2,084.0594**	**2,084.0594**	**0.0752**		**2,085.9382**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2786	0.0000	0.2786	0.0422	0.0000	0.0422			0.0000			0.0000

Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,387.3390	2,387.3390	0.5139		2,400.1866
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.2786**	**0.0377**	**0.3163**	**0.0422**	**0.0377**	**0.0799**	**0.0000**	**2,387.3390**	**2,387.3390**	**0.5139**		**2,400.1866**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0396	1.2626	0.4403	5.9700e-003	0.1457	2.3400e-003	0.1480	0.0399	2.2400e-003	0.0422		652.2232	652.2232	0.0447		653.3396
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4978	0.2790	4.1742	0.0144	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,431.8363	1,431.8363	0.0305		1,432.5986
Total	**0.5374**	**1.5415**	**4.6145**	**0.0203**	**1.8223**	**0.0137**	**1.8360**	**0.4846**	**0.0127**	**0.4973**		**2,084.0594**	**2,084.0594**	**0.0752**		**2,085.9382**

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6916	0.0000	4.6916	2.5016	0.0000	2.5016			0.0000			0.0000
Off-Road	0.9176	9.5685	6.7884	0.0160		0.3822	0.3822		0.3516	0.3516		1,553.4836	1,553.4836	0.5024		1,566.0443
Total	**0.9176**	**9.5685**	**6.7884**	**0.0160**	**4.6916**	**0.3822**	**5.0737**	**2.5016**	**0.3516**	**2.8532**		**1,553.4836**	**1,553.4836**	**0.5024**		**1,566.0443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4978	0.2790	4.1742	0.0144	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,431.8363	1,431.8363	0.0305		1,432.5986
Total	**0.4978**	**0.2790**	**4.1742**	**0.0144**	**1.6767**	**0.0114**	**1.6880**	**0.4447**	**0.0105**	**0.4551**		**1,431.8363**	**1,431.8363**	**0.0305**		**1,432.5986**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8297	0.0000	1.8297	0.9756	0.0000	0.9756			0.0000			0.0000
Off-Road	0.1962	0.8503	8.6195	0.0160		0.0262	0.0262		0.0262	0.0262	0.0000	1,553.4836	1,553.4836	0.5024		1,566.0443
Total	**0.1962**	**0.8503**	**8.6195**	**0.0160**	**1.8297**	**0.0262**	**1.8559**	**0.9756**	**0.0262**	**1.0018**	**0.0000**	**1,553.4836**	**1,553.4836**	**0.5024**		**1,566.0443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4978	0.2790	4.1742	0.0144	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,431.8363	1,431.8363	0.0305		1,432.5986
Total	**0.4978**	**0.2790**	**4.1742**	**0.0144**	**1.6767**	**0.0114**	**1.6880**	**0.4447**	**0.0105**	**0.4551**		**1,431.8363**	**1,431.8363**	**0.0305**		**1,432.5986**

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1303	1.2278	1.7006	2.2900e-003		0.0657	0.0657		0.0605	0.0605		222.0463	222.0463	0.0718		223.8416
Total	**0.1303**	**1.2278**	**1.7006**	**2.2900e-003**		**0.0657**	**0.0657**		**0.0605**	**0.0605**		**222.0463**	**222.0463**	**0.0718**		**223.8416**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.6271	0.4516	5.7600e-003	0.1536	1.8400e-003	0.1554	0.0442	1.7500e-003	0.0460		618.3460	618.3460	0.0333		619.1786
Worker	0.4978	0.2790	4.1742	0.0144	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,431.8363	1,431.8363	0.0305		1,432.5986
Total	**0.5427**	**1.9061**	**4.6258**	**0.0201**	**1.8302**	**0.0132**	**1.8434**	**0.4889**	**0.0122**	**0.5011**		**2,050.1823**	**2,050.1823**	**0.0638**		**2,051.7772**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0283	0.1224	1.7424	2.2900e-003		3.7700e-003	3.7700e-003		3.7700e-003	3.7700e-003	0.0000	222.0463	222.0463	0.0718		223.8416
Total	**0.0283**	**0.1224**	**1.7424**	**2.2900e-003**		**3.7700e-003**	**3.7700e-003**		**3.7700e-003**	**3.7700e-003**	**0.0000**	**222.0463**	**222.0463**	**0.0718**		**223.8416**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0448	1.6271	0.4516	5.7600e-003	0.1536	1.8400e-003	0.1554	0.0442	1.7500e-003	0.0460		618.3460	618.3460	0.0333		619.1786
Worker	0.4978	0.2790	4.1742	0.0144	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,431.8363	1,431.8363	0.0305		1,432.5986
Total	**0.5427**	**1.9061**	**4.6258**	**0.0201**	**1.8302**	**0.0132**	**1.8434**	**0.4889**	**0.0122**	**0.5011**		**2,050.1823**	**2,050.1823**	**0.0638**		**2,051.7772**

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2331	2.2696	3.5569	5.4900e-003		0.1100	0.1100		0.1012	0.1012		531.7914	531.7914	0.1720		536.0912
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2331**	**2.2696**	**3.5569**	**5.4900e-003**		**0.1100**	**0.1100**		**0.1012**	**0.1012**		**531.7914**	**531.7914**	**0.1720**		**536.0912**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4978	0.2790	4.1742	0.0144	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,431.8363	1,431.8363	0.0305		1,432.5986
Total	**0.4978**	**0.2790**	**4.1742**	**0.0144**	**1.6767**	**0.0114**	**1.6880**	**0.4447**	**0.0105**	**0.4551**		**1,431.8363**	**1,431.8363**	**0.0305**		**1,432.5986**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0675	0.2923	4.1601	5.4900e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	531.7914	531.7914	0.1720		536.0912

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0675**	**0.2923**	**4.1601**	**5.4900e-003**		**8.9900e-003**	**8.9900e-003**		**8.9900e-003**	**8.9900e-003**	**0.0000**	**531.7914**	**531.7914**	**0.1720**		**536.0912**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4978	0.2790	4.1742	0.0144	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,431.8363	1,431.8363	0.0305		1,432.5986
Total	**0.4978**	**0.2790**	**4.1742**	**0.0144**	**1.6767**	**0.0114**	**1.6880**	**0.4447**	**0.0105**	**0.4551**		**1,431.8363**	**1,431.8363**	**0.0305**		**1,432.5986**

LAUSD Jefferson HS - Phase 5

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2027
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimate for Phase 5

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 equipment

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	11.25	4.95

tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	417.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	10.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	1.9551	13.2106	17.8770	0.0442	6.3682	0.5363	6.7617	2.9462	0.5057	3.3083	0.0000	4,371.2617	4,371.2617	0.5883	0.0000	4,385.9684
Maximum	**1.9551**	**13.2106**	**17.8770**	**0.0442**	**6.3682**	**0.5363**	**6.7617**	**2.9462**	**0.5057**	**3.3083**	**0.0000**	**4,371.2617**	**4,371.2617**	**0.5883**	**0.0000**	**4,385.9684**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					

2025	1.2527	2.8025	19.7020	0.0442	3.5069	0.0515	3.5443	1.4203	0.0505	1.4569	0.0000	4,371.2617	4,371.2617	0.5883	0.0000	4,385.9684
Maximum	**1.2527**	**2.8025**	**19.7020**	**0.0442**	**3.5069**	**0.0515**	**3.5443**	**1.4203**	**0.0505**	**1.4569**	**0.0000**	**4,371.2617**	**4,371.2617**	**0.5883**	**0.0000**	**4,385.9684**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**35.93**	**78.79**	**-10.21**	**0.00**	**44.93**	**90.40**	**47.58**	**51.79**	**90.02**	**55.96**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2025	3/11/2025	5	50	
2	Grading	Grading	3/12/2025	4/22/2025	5	30	
3	Building Construction	Building Construction	4/23/2025	6/3/2025	5	30	
4	Paving	Paving	6/3/2025	6/30/2025	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.95

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40

Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	150.00	0.00	417.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	2	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7143	0.0000	0.7143	0.1082	0.0000	0.1082			0.0000			0.0000
Off-Road	1.3596	11.6342	13.6632	0.0249		0.5226	0.5226		0.4930	0.4930		2,387.3390	2,387.3390	0.5139		2,400.1866
Total	**1.3596**	**11.6342**	**13.6632**	**0.0249**	**0.7143**	**0.5226**	**1.2369**	**0.1082**	**0.4930**	**0.6011**		**2,387.3390**	**2,387.3390**	**0.5139**		**2,400.1866**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0406	1.2704	0.4595	5.8700e-003	0.1457	2.4000e-003	0.1481	0.0399	2.2900e-003	0.0422		641.1584	641.1584	0.0459		642.3068
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5549	0.3060	3.7543	0.0135	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,342.7643	1,342.7643	0.0284		1,343.4750
Total	**0.5955**	**1.5764**	**4.2138**	**0.0193**	**1.8223**	**0.0138**	**1.8361**	**0.4846**	**0.0127**	**0.4973**		**1,983.9227**	**1,983.9227**	**0.0744**		**1,985.7818**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2786	0.0000	0.2786	0.0422	0.0000	0.0422			0.0000			0.0000

Off-Road	0.2830	1.2261	15.4882	0.0249		0.0377	0.0377		0.0377	0.0377	0.0000	2,387.3390	2,387.3390	0.5139		2,400.1866
Total	**0.2830**	**1.2261**	**15.4882**	**0.0249**	**0.2786**	**0.0377**	**0.3163**	**0.0422**	**0.0377**	**0.0799**	**0.0000**	**2,387.3390**	**2,387.3390**	**0.5139**		**2,400.1866**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0406	1.2704	0.4595	5.8700e-003	0.1457	2.4000e-003	0.1481	0.0399	2.2900e-003	0.0422		641.1584	641.1584	0.0459		642.3068
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5549	0.3060	3.7543	0.0135	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,342.7643	1,342.7643	0.0284		1,343.4750
Total	**0.5955**	**1.5764**	**4.2138**	**0.0193**	**1.8223**	**0.0138**	**1.8361**	**0.4846**	**0.0127**	**0.4973**		**1,983.9227**	**1,983.9227**	**0.0744**		**1,985.7818**

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6916	0.0000	4.6916	2.5016	0.0000	2.5016			0.0000			0.0000
Off-Road	0.9176	9.5685	6.7884	0.0160		0.3822	0.3822		0.3516	0.3516		1,553.4836	1,553.4836	0.5024		1,566.0443
Total	**0.9176**	**9.5685**	**6.7884**	**0.0160**	**4.6916**	**0.3822**	**5.0737**	**2.5016**	**0.3516**	**2.8532**		**1,553.4836**	**1,553.4836**	**0.5024**		**1,566.0443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5549	0.3060	3.7543	0.0135	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,342.7643	1,342.7643	0.0284		1,343.4750
Total	**0.5549**	**0.3060**	**3.7543**	**0.0135**	**1.6767**	**0.0114**	**1.6880**	**0.4447**	**0.0105**	**0.4551**		**1,342.7643**	**1,342.7643**	**0.0284**		**1,343.4750**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8297	0.0000	1.8297	0.9756	0.0000	0.9756			0.0000			0.0000
Off-Road	0.1962	0.8503	8.6195	0.0160		0.0262	0.0262		0.0262	0.0262	0.0000	1,553.4836	1,553.4836	0.5024		1,566.0443
Total	**0.1962**	**0.8503**	**8.6195**	**0.0160**	**1.8297**	**0.0262**	**1.8559**	**0.9756**	**0.0262**	**1.0018**	**0.0000**	**1,553.4836**	**1,553.4836**	**0.5024**		**1,566.0443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5549	0.3060	3.7543	0.0135	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,342.7643	1,342.7643	0.0284		1,343.4750
Total	**0.5549**	**0.3060**	**3.7543**	**0.0135**	**1.6767**	**0.0114**	**1.6880**	**0.4447**	**0.0105**	**0.4551**		**1,342.7643**	**1,342.7643**	**0.0284**		**1,343.4750**

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1303	1.2278	1.7006	2.2900e-003		0.0657	0.0657		0.0605	0.0605		222.0463	222.0463	0.0718		223.8416
Total	**0.1303**	**1.2278**	**1.7006**	**2.2900e-003**		**0.0657**	**0.0657**		**0.0605**	**0.0605**		**222.0463**	**222.0463**	**0.0718**		**223.8416**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0471	1.6189	0.4934	5.6100e-003	0.1536	1.9100e-003	0.1555	0.0442	1.8300e-003	0.0460		601.8952	601.8952	0.0353		602.7766
Worker	0.5549	0.3060	3.7543	0.0135	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,342.7643	1,342.7643	0.0284		1,343.4750
Total	**0.6020**	**1.9249**	**4.2477**	**0.0191**	**1.8302**	**0.0133**	**1.8435**	**0.4889**	**0.0123**	**0.5012**		**1,944.6595**	**1,944.6595**	**0.0637**		**1,946.2516**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0283	0.1224	1.7424	2.2900e-003		3.7700e-003	3.7700e-003		3.7700e-003	3.7700e-003	0.0000	222.0463	222.0463	0.0718		223.8416
Total	**0.0283**	**0.1224**	**1.7424**	**2.2900e-003**		**3.7700e-003**	**3.7700e-003**		**3.7700e-003**	**3.7700e-003**	**0.0000**	**222.0463**	**222.0463**	**0.0718**		**223.8416**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0471	1.6189	0.4934	5.6100e-003	0.1536	1.9100e-003	0.1555	0.0442	1.8300e-003	0.0460		601.8952	601.8952	0.0353		602.7766
Worker	0.5549	0.3060	3.7543	0.0135	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,342.7643	1,342.7643	0.0284		1,343.4750
Total	**0.6020**	**1.9249**	**4.2477**	**0.0191**	**1.8302**	**0.0133**	**1.8435**	**0.4889**	**0.0123**	**0.5012**		**1,944.6595**	**1,944.6595**	**0.0637**		**1,946.2516**

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2331	2.2696	3.5569	5.4900e-003		0.1100	0.1100		0.1012	0.1012		531.7914	531.7914	0.1720		536.0912
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2331**	**2.2696**	**3.5569**	**5.4900e-003**		**0.1100**	**0.1100**		**0.1012**	**0.1012**		**531.7914**	**531.7914**	**0.1720**		**536.0912**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5549	0.3060	3.7543	0.0135	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,342.7643	1,342.7643	0.0284		1,343.4750
Total	**0.5549**	**0.3060**	**3.7543**	**0.0135**	**1.6767**	**0.0114**	**1.6880**	**0.4447**	**0.0105**	**0.4551**		**1,342.7643**	**1,342.7643**	**0.0284**		**1,343.4750**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0675	0.2923	4.1601	5.4900e-003		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	531.7914	531.7914	0.1720		536.0912

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.0675**	**0.2923**	**4.1601**	**5.4900e-003**		**8.9900e-003**	**8.9900e-003**		**8.9900e-003**	**8.9900e-003**	**0.0000**	**531.7914**	**531.7914**	**0.1720**		**536.0912**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5549	0.3060	3.7543	0.0135	1.6767	0.0114	1.6880	0.4447	0.0105	0.4551		1,342.7643	1,342.7643	0.0284		1,343.4750
Total	**0.5549**	**0.3060**	**3.7543**	**0.0135**	**1.6767**	**0.0114**	**1.6880**	**0.4447**	**0.0105**	**0.4551**		**1,342.7643**	**1,342.7643**	**0.0284**		**1,343.4750**

Regional Emissions Summary

Source	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			lb/day			
Phase 1						
Soil Removal	2	47	24	<1	5	2
Demolition	1	2	23	<1	2	1
Grading	1	1	14	<1	4	1
Building Construction	1	5	16	<1	2	1
Phase 2						
Demolition	1	2	22	<1	2	1
Grading	1	1	14	<1	3	1
Building Construction	1	5	15	<1	2	1
Phase 3						
Demolition	1	5	22	<1	2	1
Grading	1	1	12	<1	3	1
Building Construction	1	4	14	<1	2	1
Paving	1	1	9	<1	2	<1
Architectural Coating	33	1	7	<1	2	<1
Phase 4						
Demolition	1	2	20	<1	2	1
Grading	1	1	12	<1	3	1
Building Construction	1	3	13	<1	2	1
Paving	1	1	9	<1	2	<1
Architectural Coating	33	<1	6	<1	2	<1
Phase 5						
Demolition	1	3	20	<1	2	1
Grading	1	1	13	<1	4	1
Building Construction	1	2	6	<1	2	1
Paving	1	1	8	<1	2	<1
		Overlapping Phases				
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Grading	3	11	50	<1	8	3
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Building Construction	3	13	52	<1	6	2
Phase 2 Building Construction+Phase 3 Building Construction	2	9	30	<1	4	1
Phase 3 Paving+Phase 3 Architectural Coating+Phase 4 Demolition	2	3	30	<1	4	1
Maximum Daily Emissions	**33**	**47**	**52**	**<1**	**8**	**3**
SCAQMD Significance Thresholds	75	100	550	150	150	55
Above/(Under)	(42)	(53)	(498)	(150)	(142)	(52)
Exceeds Threshold	No	No	No	No	No	No

Localized Emissions Summary

Source	NOx	CO	PM10 Total	PM2.5 Total
			lb/day	
Phase 1				
Soil Removal	1	10	<1	<1
Demolition	1	15	<1	<1
Grading	1	7	2	1
Building Construction	1	8	<1	<1
Phase 2				
Demolition	1	15	<1	<1
Grading	1	7	2	1
Building Construction	1	8	<1	<1
Phase 3				
Demolition	1	15	<1	<1
Grading	1	7	2	1
Building Construction	1	8	<1	<1
Paving	<1	4	<1	<1
Architectural Coating	<1	2	<1	<1
Phase 4				
Demolition	1	15	<1	<1
Grading	1	7	2	1
Building Construction	1	8	<1	<1
Paving	<1	4	<1	<1
Architectural Coating	<1	2	<1	<1
Phase 5				
Demolition	1	15	<1	<1
Grading	1	9	2	1
Building Construction	<1	2	<1	<1
Paving	<1	4	<1	<1
Overlapping Phases				
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Grading	3	30	2	1
Phase 2 Building Construction+Phase 3 Demolition+Phase 3 Building Construction	4	32	<1	<1
Phase 2 Building Construction+Phase 3 Building Construction	3	16	<1	<1
Phase 3 Paving+Phase 3 Architectural Coating+Phase 4 Demolition	2	20	<1	<1
Maximum Daily Emissions	**4**	**32**	**2**	**1**
Localized Significance Thresholds	74	680	5	3
Above/(Under)	(70)	(648)	(3)	(2)
Exceeds Threshold	No	No	No	No

Air Quality and Greenhouse Gas Analysis
Offsite Vehicle Travel Emissions - Maximum Daily in South Coast Air Basin (SoCAB)

Vehicle Travel Distances and One-Way Trips

Import/Export Location	Vehicle Class	One-Way Trip Distance (miles) [b,c,e]		Number of One-Way Trips [d]	
Activity		**SCAB**	**SJVAB**	**Daily Trips**	**Annual Trips**
Disposal (Export)					
Clean Harbors Buttonwillow (CA)	Haul Truck (T7, Single Construction)	74	70	25	125
Within 1/4 mile of Site	Haul Truck (T7, Single Construction)	0.5			
(Import)	Haul Truck (T7, Single Construction)	30	-	25	125

Notes:
a. CARB EMFAC2014 Emission Factor Estimates
b. Distance based on roadway travel distance from the approximate center of the Investigation Area to the respective air basin border.
c SCAB = South Coast Air Basin; SJVAB = San Joaquin Valley Air Basin;
d. Assuming 50 Trucks per day (25 for export, 25 for import)
e. Truck emissions within 1/4 mile of site, 0.5 used fo roundtrips.

Vehicle Emission Factors

Model Year	Vehicle Class	Criteria Pollutant Emission Factors (grams/mile) [a]								GHG Emission Factors (grams/mile) [a]
					PM10		PM2.5			GWP=1
EMFAC2014 (Analysis Year: 2018)		**VOC**	**CO**	**NOX**	**Exhaust**	**BW/TW/RD**	**Exhaust**	**BW/TW/RD [b]**	**SOX**	**CO2**
Fleet Average	Haul Truck (T7, Single Construction)	0.1299	0.5056	5.2197	0.0374	0.3976	0.0358	0.1091	0.0156	1,635.85

Notes:
a. Emissions factors from EMFAC2014 run in the "Emissions" mode, Analysis Year 2018, SCAB
b. BW = Brake Wear; TW = Tire Wear; RD = Road Dust

SOUTH COAST AIR BASIN

Vehicle Emissions - Design Day (Heavy-Duty Trucks (T7, Single Construction)

Import/Export Location	Vehicle Class	Criteria Pollutant Emissions (POUNDS/DAY)								GHG Emission Factors (MT/YEAR)
					PM10		PM2.5			GWP=1
Activity		VOC	CO	NOX	Exhaust	BW/TW/RD	Exhaust	BW/TW/RD	SOX	CO2
Disposal (Export)										
Clean Harbors Buttonwillow (CA)	Fleet Average	0.5297	2.0621	21.2886	0.1526	1.6216	0.1460	0.4448	0.0637	15.1316
		-	-	-	-	-	-	-	-	-
Landscaping (Import)	Fleet Average	0.21	0.84	8.63	0.06	0.66	0.06	0.18	0.03	6.13
TOTAL		**0.74**	**2.90**	**29.92**	**0.21**	**2.28**	**0.21**	**0.63**	**0.09**	**21.27**

SAN JOAQUIN VALLEY AIR BASIN

Vehicle Emissions - Annual (Heavy-Duty Trucks = T7, Single Construction

Import/Export Location	Vehicle Class	Criteria Pollutant Emissions (TONS/YEAR)								GHG Emission Factors (MT/YEAR)
						PM10		PM2.5		GWP=1
Activity		VOC	CO	NOX	SOX	Exhaust	BW/TW/RD	Exhaust	BW/TW/RD	CO2
Disposal (Export)										
Clean Harbors Buttonwillow (CA)	Fleet Avereage	1.25E-03	4.88E-03	5.03E-02	3.61E-04	3.83E-03	3.45E-04	1.05E-03	1.51E-04	14.31
		-	-	-	-	-	-	-	-	-
TOTAL		**0.00**	**0.01**	**0.06**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**14.31**

	San Joaquin Valley APCD Criteria Pollutant Thresholds					
	ROG	NOX	CO	SOX	PM10	PM2.5
SJVAPCD Significance Thresholds (Tons/yr)	10	10	100	27	15	15
Export Total	1.84E-03	5.03E-02	4.88E-03	3.61E-04	4.18E-03	1.20E-03
Exceeds Thresholds?	No	No	No	No	No	No

A.2 Construction Health Risk Assessment

- Contaminated Soil Calculations
- HRA Calculations
- HARP2 Outputs

LAUSD Jefferson - Emissions Inventory

Soil Excavation and Handling - Fugitive Dust Emissions

Emission Factor Equation

$$E = k(0.0032)\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (pound [lb]/ton)}$$

Where:

E = emission factor
k = particle size multiplier (dimensionless)
U = mean wind speed, meters per second (m/s) (miles per hour [mph])
M = material moisture content (%)

Source: AP-42 13.2.4-3, Equation (1)

Assumptions

Equation Parameters	Value	Units	Notes
k (dimensionless) - PM10	0.35		AP-42, Chapter 13.2.4, Page 4. Nov 2006
k (dimensionless) - PM2.5	0.053		AP-42, Chapter 13.2.4, Page 4. Nov 2006
U (mean wind speed)	6.19	mph	SCAQMD Central Los Angeles Meteorological Station, average wind speed from 7AM-5PM
M (material moisture content)	7.9	(%)	AP-42 Chapter 11.9-9. Table 11.9-3. Overburden default value.
Silt Content	6.9	%	AP-42, Chapter 11.9, Table 11.9-3. Bulldozer Overburden Silt Content.
Soil Density	2600	lbs/CY	http://www.calrecycle.ca.gov/SWFAcilities/CDI/Tools/Calculations.htm. Wet Soil
Mitigation (% Reduction)	61	(%)	Apply water 3x daily:
Times Soil is Handled	4	times	Assumes 4x handling (In total). Excavation to stockpile, stockpile to truck (Excavation) 2x; truck to

Excavation Assumptions

Average Daily (CY)	46	230 CY total over 5 days

Excavation Emissions Calculation

Daily

			Equation Parameters					
Pollutant	Daily CY	Daily (tons)	k (PM10)	U (mph)	M (%)	EF (lbs/ton)	Mitigation (%)	Emissions (lbs/day)
PM10	46	60	0.35	6.19	7.9	2.16E-04	61	**2.02E-02**
PM2.5	46	60	0.053	6.19	7.9	3.27E-05	61	**3.05E-03**

Notes:
1) USEPA AP-42, Fifth Edition, Volume 1 Chapter 13: Miscellaneous Sources, Equation 13.2.4 (November 2006)
2) USEPA AP-42 Equation 13.2.4-3, Aerodynamic Particle Size Multiplier for k

LAUSD Jefferson Comprehensive Modernization

Wind Erosion Emissions

Emission Factor Equation

$$EF\ (g/m^2\text{-}s) = 0.036 \times (1-V)(Um/Ut)^3 F(x) / (3600\ \text{seconds / hour})$$

Where
EF = Emission Factor
V = fraction of vegetative cover
U_m = mean wind speed (m/s)
U_t = Equivalent threshold value of wind speed at 7 m/s (default = 11.32)
F(x) = Function dependent on U_m/U_t derived from Cowherd et. al (1985) (unitless); default = 0.194 (USEPA, 1996)
http://www.epa.gov/superfund/health/conmedia/soil/pdfs/ssg_appd-e.pdf

Equation Parameters

	Value	Units	Notes
V (vegetative cover)	0	-	Default value. Assumes no vegetation on stockpiles.
U_m (wind speed)	2.77	m/s	SCAQMD Central Los Angeles Meteorological Station, average wind speed from 7AM-5PM
U_t (equivalent threshold value of wind speed at 7 m/s)	11.32	m/s	Default value
F(x) (Cowherd function)	0.194	-	Default value
PM2.5/PM10 Ratio	21	(%)	SCAQMD PM2.5 LST Methodology: http://www.aqmd.gov/ceqa/handbook/lst/Method_final.pdf

Assumptions

	Value	Units	Notes
Hours per Day	8	hours	
Exposure Duration (unstabilized)	1	hours	Maximum time after excavation where no soil stabilizing agent is applied or stockpile is covered
Exposure Duration (stabilized)	7	hours	Maximum time after soil is stabilized prior to removal to treatment cell , bin or off-site.
Mitigation	90	(%)	Cover temporary stockpiles with plastic and secure with sandbags. SCAQMD Mitigation Measure Examples. Table X1-E.
Stockpile Area	0.021	acres	30 x 30' pile

Excavation and Stockpile Emissions Calculations

Period	Daily Stabilized Stockpile Area (acres)	V (vegetative cover)	Um (wind speed)	Ut (threshold value)	F(x) (Cowherd Function)	Emission Factor (g/m2-s)	Mitigation (%)	PM10 Stabilized Emissions (lbs)	PM2.5 Stabilized Emissions (lbs)
Hourly	0.02	0.0	2.77	11	0.194	2.84E-08	90	1.9E-06	4.0E-07
Daily	0.02	0.0	2.77	11	0.194	2.84E-08	90	1.5E-05	3.2E-06

LAUSD Jefferson

Emissions Rate Calculations

Remediation	
Remediation Hours per Day	8
Remediation Seconds per Day	36000
Lead Concentration (mg/kg)[1]	81.44

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Lead Contaminated Fugitive Dust	
Phase	**PM10 Emission Rate (lbs/day)**
Excavation - Soil Handling	0.0201532
Excavation - Wind Erosion	0.0000151
Total	0.02

Lead Emission Rate	
Parameter	**Value**
Lead Concentration (mg/kg)	81.44
PM10 Emission Rate (lbs/day)	0.02
Lead Emissions per day (lbs)	1.6E-06
5-day Lead Emissions (lbs)	8.2E-06
AERMOD Number of Sources	6
Lead Emissions per Source (lbs)	2.74E-07
Seconds per Day	36,000
Lead Emission Rate per Source (g/s)	**3.45E-09**

LAUSD Jefferson

Emissions Rate Calculations

Remediation	
Remediation Hours per Day	8
Remediation Seconds per Day	36000
Arsenic Concentration (mg/kg)[1]	6.55

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Lead Contaminated Fugitive Dust	
Phase	**PM10 Emission Rate (lbs/day)**
Excavation - Soil Handling	0.0201532
Excavation - Wind Erosion	0.0000151
Total	0.02

Lead Emission Rate	
Parameter	**Value**
Aresnic Concentration (mg/kg)	6.55
PM10 Emission Rate (lbs/day)	0.02
Arsenic Emissions per day (lbs)	1.3E-07
5-day Arsenic Emissions (lbs)	6.6E-07
AERMOD Number of Sources	6
Arsenic Emissions per Source (lbs)	0.00000002
Seconds per Day	36,000
Arsenic Emission Rate per Source (g/s)	**2.774E-10**

LAUSD Jefferson HS Modernization
Air Quality Assessment
Construction Health Risk Assessment

AERMOD Source Characteristics

Emission Source	Source Type	Number of Sources	Length of Line (m)	Source Group Unitized Emission Rate (g/s)	Release Height (m)	Length of Side X (m)	Length of Side Y (m)	Initial Lateral (m)	Initial Vertical (m)	Plume Height (m)	Plume Width (m)
Source Group 1											
Off-Road Heavy-Duty Construction Equipment	Line-Volume	1	2269.6	1.0000	n/a	n/a	n/a	n/a	n/a	5.00	5.00
Source Group 2											
On-Road Haul and Vendor Trucks 1	Line-Volume	1	906.1	1.0000	5.00	12	12	n/a	n/a	5.0	3.5
Source Group 3											
Idling Haul and Vendor Trucks 3	Volume	8	n/a	1.0000	5.00	25	25	5.81	0.97	n/a	n/a
Source Group 4											
Dust from Contaminated Soil	ıltiple Area Sour	6		1							

Source: ESA 2017

LAUSD Jefferson HS Modernization
Draft Environmental Impact Report
Construction Health Risk Assessment

AERMOD Results

Emission Source	Source Type	Source Group Unitized Max AERMOD Concentration ($\mu g/m^3$)	
		West (Residential)	Onsite Student Receptor
Source Group 1		10.24	23.53
Off-Road Heavy-Duty Construction Equipment	*Line-Volume*		
Source Group 2		0.44	1.59
On-Road Haul and Vendor Trucks 1	*Line-Volume*		
Source Group 3		1.60	23.19
Idling Haul and Vendor Trucks 3	*Volume*		
Source Group 4		Annual	
Dust Emissions from Soil Handling and Wind Erosion	*Area*	0.47	10.76

Source: Lakes Environmental, AERMOD View 9.3.0 (Version 16216r), 2016; ESA 2017

	Easting	Northing
Residential Receptor	**384375**	**3763950**
School Receptor	**384506.96**	**3764040.63**

Haul/Concrete Truck Running Emission Factors (Aggregate Model Year, Aggregate Speeds)
(for On-Road T7 HHDT Trucks)

EMFAC2014 (v1.0.7) Emission Rates
Region Type: Air Basin
Region: South Coast
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	PM10_RUNEX	PM10_IDLEX
South Coast	2018	T7 single construction	Aggregated	Aggregated	DSL	4094.842796	374074.6	0.037409	0.113362
South Coast	2019	T7 single construction	Aggregated	Aggregated	DSL	4146.976306	386593.6	0.032926	0.101170
South Coast	2020	T7 single construction	Aggregated	Aggregated	DSL	4191.522528	399018.5	0.019017	0.013496

Source: California Air Resources Board, EMFAC2014, http://www.arb.ca.gov/emfac/2014/. Accessed July 2017.

LAUSD Jefferson HS Modernization
Air Quality Assessment
Construction Health Risk Assessment

Off-Road Heavy-Duty Constuction Equipment Emission Rates

	Construction Activity	Equipment Type	Work Days by Activity (days)	Work Hours per Day (hours/day)	Daily DPM Emissions [a] (pounds/day)	Emissions Rate during Work Period (grams/second)
1	Soil Removal	Off-Road Heavy-Duty	5	8	0.0308	4.85E-04
2	Demolition	Off-Road Heavy-Duty	50	8	0.0377	5.94E-04
3	Grading	Off-Road Heavy-Duty	30	8	0.0224	3.53E-04
4	Building Construction	Off-Road Heavy-Duty	71	8	0.0192	3.02E-04
5	Demolition	Off-Road Heavy-Duty	94	8	0.0377	5.94E-04
6	Grading	Off-Road Heavy-Duty	63	8	0.0224	3.53E-04
7	Building Construction	Off-Road Heavy-Duty	366	8	0.0192	3.02E-04
8	Demolition	Off-Road Heavy-Duty	87	8	0.0377	5.94E-04
9	Grading	Off-Road Heavy-Duty	66	8	0.0224	3.53E-04
10	Building Construction	Off-Road Heavy-Duty	325	8	0.0192	3.02E-04
11	Paving	Off-Road Heavy-Duty	42	8	0.0090	1.42E-04
12	Architectural Coating	Off-Road Heavy-Duty	42	8	0.0040	6.24E-05
13	Demolition	Off-Road Heavy-Duty	88	8	0.0377	5.94E-04
14	Grading	Off-Road Heavy-Duty	66	8	0.0224	3.53E-04
15	Building Construction	Off-Road Heavy-Duty	326	8	0.0192	3.02E-04
16	Paving	Off-Road Heavy-Duty	42	8	0.0192	3.02E-04
17	Architectural Coating	Off-Road Heavy-Duty	42	8	0.0090	1.42E-04
18	Demolition	Off-Road Heavy-Duty	50	8	0.0377	5.94E-04
19	Grading	Off-Road Heavy-Duty	30	8	0.0262	4.13E-04
20	Building Construction	Off-Road Heavy-Duty	30	8	0.0038	5.94E-05
21	Paving	Off-Road Heavy-Duty	20	8	0.0090	1.42E-04

	Maximum 12-Month Emissions (for Chronic HI analysis)	*Equipment Type*	*Work Days*	*Work Hours per Da*	*Daily DPM*	*Emissions Rate*	
1	*Soil Removal*	*Off-Road Heavy-Duty*	*5*	*8*	*0.0308*	*0.000485092*	*7.64E-06*
2	*Demolition*	*Off-Road Heavy-Duty*	*50*	*8*	*0.0377*	*0.000593765*	*9.35E-06*
3	*Grading*	*Off-Road Heavy-Duty*	*30*	*8*	*0.0224*	*0.000352794*	*5.56E-06*
4	*Building Construction*	*Off-Road Heavy-Duty*	*71*	*8*	*0.0192*	*0.000302395*	*4.76E-06*
5	*Demolition*	*Off-Road Heavy-Duty*	*94*	*8*	*0.0377*	*0.000593765*	*9.35E-06*
6	*Grading*	*Off-Road Heavy-Duty*	*63*	*8*	*0.0224*	*0.000352794*	*5.56E-06*
7	*Building Construction*	*Off-Road Heavy-Duty*	*366*	*8*	*0.0192*	*0.000302395*	*4.76E-06*
8	*Demolition*	*Off-Road Heavy-Duty*	*87*	*8*	*0.0377*	*0.000593765*	*9.35E-06*
9	*Grading*	*Off-Road Heavy-Duty*	*66*	*8*	*0.0224*	*0.000352794*	*5.56E-06*
10	*Building Construction*	*Off-Road Heavy-Duty*	*325*	*8*	*0.0192*	*0.000302395*	*4.76E-06*
11	*Paving*	*Off-Road Heavy-Duty*	*42*	*8*	*0.00899*	*0.00014159*	*2.23E-06*
12	*Architectural Coating*	*Off-Road Heavy-Duty*	*42*	*8*	*0.00396*	*6.2369E-05*	*9.82E-07*
13	*Demolition*	*Off-Road Heavy-Duty*	*88*	*8*	*0.0377*	*0.000593765*	*9.35E-06*
14	*Grading*	*Off-Road Heavy-Duty*	*66*	*8*	*0.0224*	*0.000352794*	*5.56E-06*
15	*Building Construction*	*Off-Road Heavy-Duty*	*326*	*8*	*0.0192*	*0.000302395*	*4.76E-06*
16	*Paving*	*Off-Road Heavy-Duty*	*42*	*8*	*0.0192*	*0.000302395*	*4.76E-06*
17	*Architectural Coating*	*Off-Road Heavy-Duty*	*42*	*8*	*0.00899*	*0.00014159*	*2.23E-06*
18	*Demolition*	*Off-Road Heavy-Duty*	*50*	*8*	*0.0377*	*0.000593765*	*9.35E-06*
19	*Grading*	*Off-Road Heavy-Duty*	*30*	*8*	*0.0262*	*0.000412643*	*6.50E-06*
20	*Building Construction*	*Off-Road Heavy-Duty*	*30*	*8*	*0.00377*	*5.93765E-05*	*9.35E-07*
21	*Paving*	*Off-Road Heavy-Duty*	*20*	*8*	*0.00899*	*0.00014159*	*2.23E-06*
						Average Emissions Rate:	***5.63E-06***

Notes:

a. California Air Resources Board, California Emissions Estimator Model (CalEEMod).

Source: ESA 2017

Travel On-Road Construction Haul, Concrete, and Vendor Truck Emission Rates

	Construction Activity	Equipment Type	Work Days per Year (days/year)	Work Hours per Day (hours/day)	Construction Activity Year	Total One-Way Truck Trips	One-Way Trip Distance per Day [a] (miles)	DPM Running Emissions Factor [b] (grams/mile)	Emissions Rate during Work Period (grams/second)
1	Soil Removal	T7 single construction	5	8		250	0.50	0.0374	3.25E-05
2	Demolition	T7 single construction	50	8		-	0.50	0.0374	0.00E+00
3	Grading	T7 single construction	30	8		24	0.50	0.0374	5.20E-07
4	Building Construction	T7 single construction	71	8		24	0.50	0.0374	2.20E-07
5	Demolition	T7 single construction	94	8		102	0.50	0.0374	7.05E-07
6	Grading	T7 single construction	63	8		-	0.50	0.0374	0.00E+00
7	Building Construction	T7 single construction	366	8		24	0.50	0.0374	4.26E-08
8	Demolition	T7 single construction	87	8		1,025	0.50	0.0374	7.65E-06
9	Grading	T7 single construction	66	8			0.50	0.0374	0.00E+00
10	Building Construction	T7 single construction	325	8		24	0.50	0.0374	4.80E-08
11	Paving	T7 single construction	42	8		-	0.50	0.0374	0.00E+00
12	Architectural Coating	T7 single construction	42	8		-	0.50	0.0374	0.00E+00
13	Demolition	T7 single construction	88	8		287	0.50	0.0374	2.12E-06
14	Grading	T7 single construction	66	8		-	0.50	0.0374	0.00E+00
15	Building Construction	T7 single construction	326	8		24	0.50	0.0374	4.78E-08
16	Paving	T7 single construction	42	8		-	0.50	0.0374	0.00E+00
17	Architectural Coating	T7 single construction	42	8		-	0.50	0.0374	0.00E+00
18	Demolition	T7 single construction	50	8		417	0.50	0.0374	5.42E-06
19	Grading	T7 single construction	30	8		-	0.50	0.0374	0.00E+00
20	Building Construction	T7 single construction	30	8		24	0.50	0.0374	5.20E-07
21	Paving	T7 single construction	20	8		0	0.50	0.0374	0.00E+00
Maximum 12-Month Emissions (for Chronic HI analysis)									
1	*Grading*	*T7 single construction*	*63*	*8*	*0*	*0*	*0.5*	*0.037408648*	*0*
2	*Building Construction*	*T7 single construction*	*366*	*8*	*0*	*24*	*0.5*	*0.037408648*	*4.25873E-08*
3	*Demolition*	*T7 single construction*	*87*	*8*	*0*	*1025*	*0.5*	*0.037408648*	*5.19565E-07*
								Average Emissions Rate:	***1.18E-07***

Notes:

a. The portion of the on-road trip length within a 1/4 mile of the Project Site.

b. California Air Resources Board, EMFAC2014 on-road vehicle emissions model.

Source: ESA 2017

Idling On-Road Construction Haul, Concrete, and Vendor Truck Emission Rates

	Construction Activity		Work Days per Year (days/year)	Work Hours per Day (hours/day)	Construction Activity Year	Total Number of Trucks	Idling Time per Truck (minutes)	DPM Idling Emissions Factor [a] (grams/min)	Emissions Rate during Work Period (grams/second)
1	Soil Removal	T7 single construction	5	8	-	250	10	7.87E-05	1.37E-06
2	Demolition	T7 single construction	50	8	-	-	10	7.87E-05	0.00E+00
3	Grading	T7 single construction	30	8	-	24	10	7.87E-05	2.19E-08
4	Building Construction	T7 single construction	71	8	-	24	10	7.87E-05	9.24E-09
5	Demolition	T7 single construction	94	8	-	102	10	7.87E-05	2.97E-08
6	Grading	T7 single construction	63	8	-	-	10	7.87E-05	0.00E+00
7	Building Construction	T7 single construction	366	8	-	24	10	7.87E-05	1.79E-09
8	Demolition	T7 single construction	87	8	-	1,025	10	7.87E-05	3.22E-07
9	Grading	T7 single construction	66	8	-	-	10	7.87E-05	0.00E+00
10	Building Construction	T7 single construction	325	8	-	24	10	7.87E-05	2.02E-09
11	Paving	T7 single construction	42	8		-	10	7.87E-05	0.00E+00
12	Architectural Coating	T7 single construction	42	8		-	10	7.87E-05	0.00E+00
13	Demolition	T7 single construction	88	8		287	10	7.87E-05	8.91E-08
14	Grading	T7 single construction	66	8		-	10	7.87E-05	0.00E+00
15	Building Construction	T7 single construction	326	8		24	10	7.87E-05	2.01E-09
16	Paving	T7 single construction	42	8		-	10	7.87E-05	0.00E+00
17	Architectural Coating	T7 single construction	42	8		-	10	7.87E-05	0.00E+00
18	Demolition	T7 single construction	50	8		417	10	7.87E-05	2.28E-07
19	Grading	T7 single construction	30	8		-	10	7.87E-05	0.00E+00
20	Building Construction	T7 single construction	30	8		24	10	7.87E-05	2.19E-08
21	Paving	T7 single construction	20	8		-	10	7.87E-05	0.00E+00
Maximum 12-Month Emissions (for Chronic HI analysis)									
1	*Grading*	*T7 single construction*	*63*	*8*	*0*	*0*	*10*	*7.87233E-05*	*0*
2	*Building Construction*	*T7 single construction*	*366*	*8*	*0*	*24*	*10*	*7.87233E-05*	*1.79243E-09*
3	*Demolition*	*T7 single construction*	*87*	*8*	*0*	*1025*	*10*	*7.87233E-05*	*2.18676E-08*
								Average Emissions Rate:	*4.96E-09*

Notes:

a. California Air Resources Board, EMFAC2014 on-road vehicle emissions model.

Source: ESA 2017

LAUSD Jefferson HS Modernization
Air Quality Assessment
Construction Health Risk Assessment

Maximum Individual Cancer Risk Calculations - Sensitive Receptors (Maximum Impacted Residential located West of the Project Site)
Concentrations by Age Bin

		Age Bins			
	Construction Phase/Equipment	**3rd Trimester**	**0 < 2**	**2<16**	**16-70**
Days	Soil Removal	5			
CONC	Off-Road Equipment	4.97E-03			
	On-Road Trucks	1.43E-05			
	Idling Trucks	2.19E-06			
Days	Demolition	50			
CONC	Off-Road Equipment	6.08E-03			
	On-Road Trucks	0.00E+00			
	Idling Trucks	0.00E+00			
Days	Grading	10	20		
CONC	Off-Road Equipment	3.61E-03	3.61E-03		
	On-Road Trucks	1.55E-04	1.55E-04		
	Idling Trucks	3.50E-08	3.50E-08		
Days	Building Construction		71		
CONC	Off-Road Equipment		3.10E-03		
	On-Road Trucks		9.66E-08		
	Idling Trucks		1.48E-08		
Days	Demolition		94		
CONC	Off-Road Equipment		6.08E-03		
	On-Road Trucks		3.10E-07		
	Idling Trucks		4.75E-08		
Days	Grading		63		
CONC	Off-Road Equipment		3.61E-03		
	On-Road Trucks		0.00E+00		
	Idling Trucks		0.00E+00		
Days	Building Construction		294	72	
CONC	Off-Road Equipment		3.10E-03	3.10E-03	
	On-Road Trucks		1.87E-08	1.87E-08	
	Idling Trucks		2.87E-09	2.87E-09	
Days	Demolition		87		
CONC	Off-Road Equipment		6.08E-03		
	On-Road Trucks		3.37E-06		
	Idling Trucks		5.15E-07		
Days	Grading		66		
CONC	Off-Road Equipment		3.61E-03		
	On-Road Trucks		0.00E+00		
	Idling Trucks		0.00E+00		

Days	Building Construction		229	96	
CONC	Off-Road Equipment		3.10E-03	3.10E-03	
	On-Road Trucks		2.11E-08	1.87E-08	
	Idling Trucks		3.23E-09	2.87E-09	
Days	Paving			42	
CONC	Off-Road Equipment			1.45E-03	
	On-Road Trucks			0.00E+00	
	Idling Trucks			0.00E+00	
Days	Architectural Coating			42	
CONC	Off-Road Equipment			6.39E-04	
	On-Road Trucks			0.00E+00	
	Idling Trucks			0.00E+00	
Days	Demolition			88	
CONC	Off-Road Equipment			6.08E-03	
	On-Road Trucks			9.32E-07	
	Idling Trucks			1.43E-07	
Days	Grading			66	
CONC	Off-Road Equipment			3.61E-03	
	On-Road Trucks			0.00E+00	
	Idling Trucks			0.00E+00	
Days	Building Construction			326	
CONC	Off-Road Equipment			3.10E-03	
	On-Road Trucks			2.10E-08	
	Idling Trucks			3.22E-09	
Days	Paving			42	
CONC	Off-Road Equipment			3.10E-03	
	On-Road Trucks			0.00E+00	
	Idling Trucks			0.00E+00	

Days	Architectural Coating			42	
CONC	Off-Road Equipment			1.45E-03	
	On-Road Trucks			0.00E+00	
	Idling Trucks			0.00E+00	
Days	Demolition			50	
CONC	Off-Road Equipment			6.08E-03	
	On-Road Trucks			2.38E-06	
	Idling Trucks			3.65E-07	
Days	Grading			30	
CONC	Off-Road Equipment			4.23E-03	
	On-Road Trucks			0.00E+00	
	Idling Trucks			0.00E+00	
Days	Building Construction			30	
CONC	Off-Road Equipment			6.08E-04	
	On-Road Trucks			2.29E-07	
	Idling Trucks			3.50E-08	
Days	Paving			20	
CONC	Off-Road Equipment			1.45E-03	
	On-Road Trucks			0.00E+00	
	Idling Trucks			0.00E+00	
	Work Days in Age Bin (Check)	65	833	744	#REF!
	Average Annual Concentration over Age Bin	2.61E-01	4.77E-03	2.48E-03	0.00E+00

Source: ESA 2017

Cancer Risk Calculations

	Parameter	Age Bins				Total Construction Exposure
		3rd Trimester	0 < 2	2 < 16	16 < 70	
DBR	Daily Breathing Rate (L/kg (body weight) per day)	361	1090	745	290	
A	Inhalation absorption factor (default = 1).	1	1	1	1	
EF	Exposure Frequency (days/year)	350	350	350	350	
ED	Exposure Duration (years)	0.25	2	3.25	0	**5.5**
FAH	Fraction of Time at Home [1]	1	1	1	0.73	
AT	Averaged Exposure Time Period (days)	25550	25550	25550	25550	
ASF	Age Sensitvity Factor	10	10	3	1	
CONC	Toxic Air Contaminant Concentration (µg/m^3)	2.61E-01	4.77E-03	2.48E-03	0.00E+00	
DOSE	*[= CONC × DBR × A × EF × ED × FAH / AT]* (mg/kg-d)	3.23E-01	1.42E-01	8.22E-02	0.00E+00	
CPF	Cancer Potency Factor (mg/kg-d)$^{-1}$					
	Diesel Particulate Matter	1.1	1.1	1.1	1.1	
RISK	Cancer Risk (in one million) [= *DOSE × CPF × ASF]*	3.55E+00	1.57E+00	2.71E-01	0.00E+00	**5.39E+00**

Source: ESA 2017

Notes:

1 School is within the 1x10^{-6} (or grater) cancer risk isopleth
https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf

LAUSD Jefferson HS Modernization
Air Quality Assessment
Construction Health Risk Assessment

Maximum Individual Cancer Risk Calculations - Sensitive Receptors
(Maximum Impacted School located West of the Project Site)

Concentrations by Age Bin

		Age Bins	
	Construction Phase/Equipment	**2<16**	**16-70**
Days	Soil Removal	5	5
CONC	Off-Road Equipment	0.0049673	0.0049673
0	On-Road Trucks	1.429E-05	1.429E-05
0	Idling Trucks	2.187E-06	2.187E-06
Days	Demolition	50	50
CONC	Off-Road Equipment	0.0060802	0.0060802
0	On-Road Trucks	0	0
0	Idling Trucks	0	0
Days	Grading	10	10
CONC	Off-Road Equipment	0.0036126	0.0036126
0	On-Road Trucks	0.0001552	0.0001552
0	Idling Trucks	3.499E-08	3.499E-08
Days	Building Construction	71	71
CONC	Off-Road Equipment	0	0
0	On-Road Trucks	0	0
0	Idling Trucks	0	0
Days	Demolition	94	94
CONC	Off-Road Equipment	0.0060802	0.0060802
0	On-Road Trucks	3.101E-07	3.101E-07
0	Idling Trucks	4.746E-08	4.746E-08
Days	Grading	63	63
CONC	Off-Road Equipment	0.0036126	0.0036126
0	On-Road Trucks	0	0
0	Idling Trucks	0	0
Days	Building Construction	294	294
CONC	Off-Road Equipment	0.0030965	0.0030965
0	On-Road Trucks	1.874E-08	1.874E-08
0	Idling Trucks	2.868E-09	2.868E-09
Days	Demolition	87	87
CONC	Off-Road Equipment	0.0060802	0.0060802
0	On-Road Trucks	3.367E-06	3.367E-06
0	Idling Trucks	5.153E-07	5.153E-07
Days	Grading	66	66
CONC	Off-Road Equipment	0.0036126	0.0036126
0	On-Road Trucks	0	0
0	Idling Trucks	0	0

Days	Building Construction	257	257
CONC	Off-Road Equipment	0.0030965	0.0030965
0	On-Road Trucks	2.11E-08	2.11E-08
0	Idling Trucks	3.23E-09	3.23E-09
Days	Paving	42	42
CONC	Off-Road Equipment	0.0014499	0.0014499
0	On-Road Trucks	0	0
0	Idling Trucks	0	0
Days	Architectural Coating	42	42
CONC	Off-Road Equipment	0.0006387	0.0006387
0	On-Road Trucks	0	0
0	Idling Trucks	0	0
Days	Demolition	88	88
CONC	Off-Road Equipment	0.0060802	0.0060802
0	On-Road Trucks	9.32E-07	9.32E-07
0	Idling Trucks	1.426E-07	1.426E-07
Days	Grading	66	66
CONC	Off-Road Equipment	0.0036126	0.0036126
0	On-Road Trucks	0	0
0	Idling Trucks	0	0
Days	Building Construction	326	326
CONC	Off-Road Equipment	0.0030965	0.0030965
0	On-Road Trucks	2.104E-08	2.104E-08
0	Idling Trucks	3.22E-09	3.22E-09
Days	Paving	42	42
CONC	Off-Road Equipment	0.0030965	0.0030965
0	On-Road Trucks	0	0
0	Idling Trucks	0	0
Days	Architectural Coating	42	42
CONC	Off-Road Equipment	0.0014499	0.0014499
0	On-Road Trucks	0	0
0	Idling Trucks	0	0
	Work Days in Age Bin (Check)	1645	1645
	Average Annual Concentration over Age Bin	2.84E-03	2.84E-03

Source: ESA 2017

Cancer Risk Calculations

Parameter		Age Bins 2 < 16	Age Bins 16 < 70
DBR	Daily Breathing Rate (L/kg (body weight) per day)	745	290
A	Inhalation absorption factor (default = 1).	1	1
EF	Exposure Frequency (days/year)	350	350
ED	Exposure Duration (years)	4	5.5
FAS	Fraction of Time at School	1.0	1.0
AT	Averaged Exposure Time Period (days)	25550	25550
ASF	Age Sensitvity Factor	3	1
CONC	Toxic Air Contaminant Concentration (µg/m^3)	2.84E-03	2.84E-03
DOSE	*[= CONC × DBR × A × EF × ED × FAH / AT]* (mg/kg-d)	1.16E-01	6.21E-02
CPF	Cancer Potency Factor (mg/kg-d)$^{-1}$ Diesel Particulate Matter	1.1	1.1
RISK	Cancer Risk (in one million) [= *DOSE × CPF × ASF]*	3.83E-01	6.83E-02

Note:

a. The default Fraction of Time at Home (FAH) is 0.72 for age bin 2 < 16. However, for evaluating construction impacts at the school receptor, it was conservatively assumed that sensitive receptors would be exposed to the total duration of construction; therefore, this factor was increased to 1.0.

Source: ESA 2017

Maximum Non-cancer Chronic Hazards / Toxicological Endpoints*

Receptor Group	Pollutant	CREL[1]	CONC	WFrac	$CONC_{WF}$	HI	ALIM	BN	CVS	DEV	ENDC	EYE	HEM	IMMUN	KIDN	NS	REPRO	RESP	SK	Threshold	Over?
MEI Sensitive - West (School)	DPM	5.00E+00	1.33E-04	1.00E+00	1.33E-04	2.65E-05	-	-	-	-	-	-	-	-	-	-	-	2.65E-05	-	1.0	NO
MEI Sensitive - West (Res)	DPM	5.00E+00	5.77E-05	1.00E+00	5.77E-05	1.15E-05	-	-	-	-	-	-	-	-	-	-	-	1.15E-05	-	1.0	NO

Sources:

1. California Air Resources Board, "Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values" and "OEHHA/ARB Approved Chronic Reference Exposure Levels and Target Organs," http://www.arb.ca.gov/toxics/healthval/healthval.htm.
   Tables last updated: September 9, 2016 and March 30, 2016. Downloaded 02/10/2017.

Where:

$CONC_{WF}$	Pollutant Concentration ($\mu g/m^3$) multiplied by the weight fraction
CREL	Chronic Reference Exposure Level
HI	Hazard Index
MEI	Maximally Exposed Individual
WFrac	Weight fraction of speciated component

* Key to Toxicological Endpoints

ALIM	Alimentary Tract	EYE	Eye	NS	Nervous System
BN	Bone	HEM	Hematologic System	REPRO	Reproductive System
CVS	Cardiovascular System	IMMUN	Immune System	RESP	Respiratory System
DEV	Developmental System	KIDN	Kidney	SK	Skin
ENDC	Endocrine System				

LAUSD Jefferson Lead and Arsenic

Soil Removal

LEAD	**Residential**	**School**
Days of Work	5	5
Annual Concentrations (ug/m^3)	1.62094E-09	3.71092E-08
Max Hourly Concentration	1.40711E-07	1.7651E-06
ARSENIC	**Residential**	**School**
Days of Work	5	5
Annual Concentrations (ug/m^3)	1.30368E-10	2.98459E-09
Max Hourly Concentration	1.1317E-08	1.41962E-07

Results from HARP2
HARP2 Assumptions
Evaluated Cancer, Chronic, and Acute Impacts
Pathways: Inhalation, Soil, Dermal, Mother's Milk, and Homegrown Produce
Exposure Duration: 0.5 years (actual exposure 5 days)

Cancer Risk	**Resident**	**Student**	**Staff**
Lead	2.2E-07	5.0E-06	1.2E-06
Arsenic	3.9E-06	8.9E-05	2.0E-05
Chronic HI	**Resident**	**Student**	**Staff**
Lead	-	-	-
Arsenic	1.9E-06	4.3E-05	1.4E-05
Acute HI	**Resident**	**Student**	**Staff**
Lead	-	-	-
Arsenic	5.7E-08	7.1E-07	7.1E-07

HARP2 - HRACalc (dated 17023) 11/6/2017 7:17:53 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 0.5

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.5
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: ON
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|Soil intake rates changed|Dermal intake rates changed|MMilk intake rates changed|Crop intake rates changed|
Calculating cancer risk
Cancer risk saved to: G:\16xxxx\D160789.01 - LAUSD Thomas Jefferson MND\03 Working Documents\AQ_GHG\HRA\Jefferson HARP\halfyear_RMPCancerRisk.csv
Calculating chronic risk
Chronic risk saved to: G:\16xxxx\D160789.01 - LAUSD Thomas Jefferson MND\03 Working Documents\AQ_GHG\HRA\Jefferson HARP\halfyear_RMPNCChronicRisk.csv
Calculating acute risk
Acute risk saved to: G:\16xxxx\D160789.01 - LAUSD Thomas Jefferson MND\03 Working Documents\AQ_GHG\HRA\Jefferson HARP\halfyear_RMPNCAcuteRisk.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 11/6/2017 9:11:31 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 25

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 25

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: DBRs changed|FAH changed|Soil intake rates changed|Dermal intake rates changed|MMilk intake rates changed|Crop intake rates changed|
Calculating cancer risk
Cancer risk saved to: G:\16xxxx\D160789.01 - LAUSD Thomas Jefferson MND\03 Working Documents\AQ_GHG\HRA\Jefferson HARP\Staff_OEHHACancerRisk.csv
Calculating chronic risk
Chronic risk saved to: G:\16xxxx\D160789.01 - LAUSD Thomas Jefferson MND\03 Working Documents\AQ_GHG\HRA\Jefferson HARP\Staff_OEHHANCChronicRisk.csv
Calculating acute risk
Acute risk saved to: G:\16xxxx\D160789.01 - LAUSD Thomas Jefferson MND\03 Working Documents\AQ_GHG\HRA\Jefferson HARP\Staff_OEHHANCAcuteRisk.csv
HRA ran successfully

LAUSD Jefferson High School Modernization Project

Greenhouse Gas Worksheets

Construction Emissions

- Phase 1 Emissions (Annual)
- Phase 2 Emissions (Annual)
- Phase 3 Emissions (Annual)
- Phase 4 Emissions (Annual)
- Phase 5 Emissions (Annual)
- Haul Truck Emissions

LAUSD jefferson HS - Phase 1

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project specific information

Land Use - Project specific information

Construction Phase - Project Specific Information

Off-road Equipment -

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Off-road Equipment - Project Specific Information

Trips and VMT - Prject specific information

Demolition -

Grading - Estimated form Google earth and Phase description

Energy Use - Project specific information

Construction Off-road Equipment Mitigation - Tier 4 equipment

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	132661	72500
tblAreaCoating	Area_Nonresidential_Interior	397983	217500
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	71.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	10.00	5.00
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	11.25	2.00
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	HorsePower	247.00	203.00
tblOffRoadEquipment	LoadFactor	0.40	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	702.44
tblSolidWaste	SolidWasteGenerationRate	365.00	36.50
tblTripsAndVMT	HaulingTripNumber	0.00	250.00
tblTripsAndVMT	HaulingTripNumber	37.00	93.00
tblTripsAndVMT	VendorTripNumber	43.00	24.00
tblTripsAndVMT	WorkerTripNumber	10.00	150.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	111.00	150.00
tblWater	IndoorWaterUseRate	8,809,920.00	880,992.00
tblWater	OutdoorWaterUseRate	22,654,080.00	2,265,408.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2001	1.4562	1.3652	3.0600e-003	0.2095	0.0704	0.2799	0.0744	0.0665	0.1410	0.0000	276.9236	276.9236	0.0348	0.0000	277.7934

Maximum	**0.2001**	**1.4562**	**1.3652**	**3.0600e-003**	**0.2095**	**0.0704**	**0.2799**	**0.0744**	**0.0665**	**0.1410**	**0.0000**	**276.9236**	**276.9236**	**0.0348**	**0.0000**	**277.7934**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.0832	0.3028	1.3888	3.0600e-003	0.1651	4.0600e-003	0.1691	0.0513	3.9300e-003	0.0552	0.0000	276.9235	276.9235	0.0348	0.0000	277.7932
Maximum	**0.0832**	**0.3028**	**1.3888**	**3.0600e-003**	**0.1651**	**4.0600e-003**	**0.1691**	**0.0513**	**3.9300e-003**	**0.0552**	**0.0000**	**276.9235**	**276.9235**	**0.0348**	**0.0000**	**277.7932**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**58.44**	**79.21**	**-1.73**	**0.00**	**21.20**	**94.24**	**39.58**	**31.12**	**94.09**	**60.85**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	**Start Date**	**End Date**	**Maximum Unmitigated ROG + NOX (tons/quarter)**	**Maximum Mitigated ROG + NOX (tons/quarter)**
1	**5-28-2018**	**8-27-2018**	0.8619	0.1405
2	**8-28-2018**	**9-30-2018**	0.2294	0.0379
		Highest	0.8619	0.1405

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Soil Removal	Site Preparation	5/28/2018	6/2/2018	5	5	Contaminate Soil Removal
2	Demolition	Demolition	6/3/2018	8/11/2018	5	50	
3	Grading	Grading	8/12/2018	9/22/2018	5	30	

4	Building Construction	Building Construction	9/23/2018	12/31/2018	5	71	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Soil Removal	Rubber Tired Dozers	0	0.00	203	0.36
Soil Removal	Rubber Tired Loaders	2	8.00	203	0.36
Soil Removal	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Soil Removal	4	150.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	93.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Soil Removal - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4800e-003	0.0398	0.0204	5.0000e-005		1.8300e-003	1.8300e-003		1.6900e-003	1.6900e-003	0.0000	4.2712	4.2712	1.3300e-003	0.0000	4.3044
Total	**3.4800e-003**	**0.0398**	**0.0204**	**5.0000e-005**	**0.0000**	**1.8300e-003**	**1.8300e-003**	**0.0000**	**1.6900e-003**	**1.6900e-003**	**0.0000**	**4.2712**	**4.2712**	**1.3300e-003**	**0.0000**	**4.3044**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	1.1500e-003	0.0406	7.8700e-003	1.0000e-004	2.1500e-003	1.5000e-004	2.3000e-003	5.9000e-004	1.5000e-004	7.4000e-004	0.0000	9.6988	9.6988	7.1000e-004	0.0000	9.7166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9900e-003	1.6300e-003	0.0175	4.0000e-005	4.1100e-003	3.0000e-005	4.1500e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	3.9506	3.9506	1.4000e-004	0.0000	3.9540
Total	**3.1400e-003**	**0.0423**	**0.0254**	**1.4000e-004**	**6.2600e-003**	**1.8000e-004**	**6.4500e-003**	**1.6800e-003**	**1.8000e-004**	**1.8600e-003**	**0.0000**	**13.6494**	**13.6494**	**8.5000e-004**	**0.0000**	**13.6706**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8000e-004	2.5000e-003	0.0259	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.2712	4.2712	1.3300e-003	0.0000	4.3044
Total	**5.8000e-004**	**2.5000e-003**	**0.0259**	**5.0000e-005**	**0.0000**	**8.0000e-005**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**8.0000e-005**	**0.0000**	**4.2712**	**4.2712**	**1.3300e-003**	**0.0000**	**4.3044**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1500e-003	0.0406	7.8700e-003	1.0000e-004	2.1500e-003	1.5000e-004	2.3000e-003	5.9000e-004	1.5000e-004	7.4000e-004	0.0000	9.6988	9.6988	7.1000e-004	0.0000	9.7166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9900e-003	1.6300e-003	0.0175	4.0000e-005	4.1100e-003	3.0000e-005	4.1500e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	3.9506	3.9506	1.4000e-004	0.0000	3.9540
Total	**3.1400e-003**	**0.0423**	**0.0254**	**1.4000e-004**	**6.2600e-003**	**1.8000e-004**	**6.4500e-003**	**1.6800e-003**	**1.8000e-004**	**1.8600e-003**	**0.0000**	**13.6494**	**13.6494**	**8.5000e-004**	**0.0000**	**13.6706**

3.3 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9700e-003	0.0000	3.9700e-003	6.0000e-004	0.0000	6.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0602	0.5656	0.3738	6.2000e-004		0.0315	0.0315		0.0299	0.0299	0.0000	55.4295	55.4295	0.0124	0.0000	55.7398
Total	**0.0602**	**0.5656**	**0.3738**	**6.2000e-004**	**3.9700e-003**	**0.0315**	**0.0354**	**6.0000e-004**	**0.0299**	**0.0305**	**0.0000**	**55.4295**	**55.4295**	**0.0124**	**0.0000**	**55.7398**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3000e-004	0.0151	2.9300e-003	4.0000e-005	8.0000e-004	6.0000e-005	8.6000e-004	2.2000e-004	5.0000e-005	2.7000e-004	0.0000	3.6080	3.6080	2.7000e-004	0.0000	3.6146
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0199	0.0163	0.1753	4.4000e-004	0.0411	3.4000e-004	0.0415	0.0109	3.1000e-004	0.0112	0.0000	39.5058	39.5058	1.3500e-003	0.0000	39.5397
Total	**0.0203**	**0.0314**	**0.1783**	**4.8000e-004**	**0.0419**	**4.0000e-004**	**0.0423**	**0.0112**	**3.6000e-004**	**0.0115**	**0.0000**	**43.1138**	**43.1138**	**1.6200e-003**	**0.0000**	**43.1543**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5500e-003	0.0000	1.5500e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0700e-003	0.0307	0.3872	6.2000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	55.4294	55.4294	0.0124	0.0000	55.7397
Total	**7.0700e-003**	**0.0307**	**0.3872**	**6.2000e-004**	**1.5500e-003**	**9.4000e-004**	**2.4900e-003**	**2.3000e-004**	**9.4000e-004**	**1.1700e-003**	**0.0000**	**55.4294**	**55.4294**	**0.0124**	**0.0000**	**55.7397**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3000e-004	0.0151	2.9300e-003	4.0000e-005	8.0000e-004	6.0000e-005	8.6000e-004	2.2000e-004	5.0000e-005	2.7000e-004	0.0000	3.6080	3.6080	2.7000e-004	0.0000	3.6146
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0199	0.0163	0.1753	4.4000e-004	0.0411	3.4000e-004	0.0415	0.0109	3.1000e-004	0.0112	0.0000	39.5058	39.5058	1.3500e-003	0.0000	39.5397
Total	**0.0203**	**0.0314**	**0.1783**	**4.8000e-004**	**0.0419**	**4.0000e-004**	**0.0423**	**0.0112**	**3.6000e-004**	**0.0115**	**0.0000**	**43.1138**	**43.1138**	**1.6200e-003**	**0.0000**	**43.1543**

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0688	0.0000	0.0688	0.0374	0.0000	0.0374	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0220	0.2511	0.0971	2.1000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	18.8082	18.8082	5.8600e-003	0.0000	18.9546
Total	**0.0220**	**0.2511**	**0.0971**	**2.1000e-004**	**0.0688**	**0.0116**	**0.0804**	**0.0374**	**0.0107**	**0.0480**	**0.0000**	**18.8082**	**18.8082**	**5.8600e-003**	**0.0000**	**18.9546**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0119	9.7900e-003	0.1052	2.6000e-004	0.0247	2.0000e-004	0.0249	6.5600e-003	1.9000e-004	6.7400e-003	0.0000	23.7035	23.7035	8.1000e-004	0.0000	23.7238
Total	**0.0119**	**9.7900e-003**	**0.1052**	**2.6000e-004**	**0.0247**	**2.0000e-004**	**0.0249**	**6.5600e-003**	**1.9000e-004**	**6.7400e-003**	**0.0000**	**23.7035**	**23.7035**	**8.1000e-004**	**0.0000**	**23.7238**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0268	0.0000	0.0268	0.0146	0.0000	0.0146	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5200e-003	0.0109	0.1029	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.8081	18.8081	5.8600e-003	0.0000	18.9545
Total	**2.5200e-003**	**0.0109**	**0.1029**	**2.1000e-004**	**0.0268**	**3.4000e-004**	**0.0272**	**0.0146**	**3.4000e-004**	**0.0149**	**0.0000**	**18.8081**	**18.8081**	**5.8600e-003**	**0.0000**	**18.9545**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0119	9.7900e-003	0.1052	2.6000e-004	0.0247	2.0000e-004	0.0249	6.5600e-003	1.9000e-004	6.7400e-003	0.0000	23.7035	23.7035	8.1000e-004	0.0000	23.7238
Total	**0.0119**	**9.7900e-003**	**0.1052**	**2.6000e-004**	**0.0247**	**2.0000e-004**	**0.0249**	**6.5600e-003**	**1.9000e-004**	**6.7400e-003**	**0.0000**	**23.7035**	**23.7035**	**8.1000e-004**	**0.0000**	**23.7238**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0472	0.3873	0.2885	4.7000e-004		0.0236	0.0236		0.0225	0.0225	0.0000	40.6784	40.6784	8.4700e-003	0.0000	40.8900
Total	**0.0472**	**0.3873**	**0.2885**	**4.7000e-004**		**0.0236**	**0.0236**		**0.0225**	**0.0225**	**0.0000**	**40.6784**	**40.6784**	**8.4700e-003**	**0.0000**	**40.8900**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7300e-003	0.1057	0.0277	2.2000e-004	5.3700e-003	7.6000e-004	6.1300e-003	1.5500e-003	7.3000e-004	2.2800e-003	0.0000	21.1715	21.1715	1.5300e-003	0.0000	21.2096
Worker	0.0282	0.0232	0.2490	6.2000e-004	0.0584	4.8000e-004	0.0589	0.0155	4.4000e-004	0.0160	0.0000	56.0983	56.0983	1.9200e-003	0.0000	56.1463
Total	**0.0320**	**0.1289**	**0.2767**	**8.4000e-004**	**0.0638**	**1.2400e-003**	**0.0650**	**0.0171**	**1.1700e-003**	**0.0182**	**0.0000**	**77.2698**	**77.2698**	**3.4500e-003**	**0.0000**	**77.3559**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6900e-003	0.0463	0.2873	4.7000e-004		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	40.6784	40.6784	8.4700e-003	0.0000	40.8900
Total	**5.6900e-003**	**0.0463**	**0.2873**	**4.7000e-004**		**6.8000e-004**	**6.8000e-004**		**6.8000e-004**	**6.8000e-004**	**0.0000**	**40.6784**	**40.6784**	**8.4700e-003**	**0.0000**	**40.8900**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7300e-003	0.1057	0.0277	2.2000e-004	5.3700e-003	7.6000e-004	6.1300e-003	1.5500e-003	7.3000e-004	2.2800e-003	0.0000	21.1715	21.1715	1.5300e-003	0.0000	21.2096
Worker	0.0282	0.0232	0.2490	6.2000e-004	0.0584	4.8000e-004	0.0589	0.0155	4.4000e-004	0.0160	0.0000	56.0983	56.0983	1.9200e-003	0.0000	56.1463
Total	**0.0320**	**0.1289**	**0.2767**	**8.4000e-004**	**0.0638**	**1.2400e-003**	**0.0650**	**0.0171**	**1.1700e-003**	**0.0182**	**0.0000**	**77.2698**	**77.2698**	**3.4500e-003**	**0.0000**	**77.3559**

LAUSD Jefferson HS - Phase 2

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth Estimation of Phase 2

Construction Off-road Equipment Mitigation - Tier 4 equipment

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	23.63	3.20
tblLandUse	LotAcreage	6.09	18.90

tblTripsAndVMT	HaulingTripNumber	0.00	102.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3096	2.2385	2.1655	4.8500e-003	0.3719	0.1088	0.4807	0.1386	0.1026	0.2412	0.0000	435.4065	435.4065	0.0560	0.0000	436.8060
2020	0.2354	1.5881	1.8467	4.6700e-003	0.2354	0.0683	0.3037	0.0630	0.0651	0.1281	0.0000	418.4126	418.4126	0.0403	0.0000	419.4192
Maximum	**0.3096**	**2.2385**	**2.1655**	**4.8500e-003**	**0.3719**	**0.1088**	**0.4807**	**0.1386**	**0.1026**	**0.2412**	**0.0000**	**435.4065**	**435.4065**	**0.0560**	**0.0000**	**436.8060**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1266	0.3854	2.2228	4.8500e-003	0.2814	6.2000e-003	0.2876	0.0904	6.0200e-003	0.0964	0.0000	435.4063	435.4063	0.0560	0.0000	436.8057
2020	0.1191	0.5754	1.8906	4.6700e-003	0.2354	5.8400e-003	0.2412	0.0630	5.6300e-003	0.0686	0.0000	418.4125	418.4125	0.0403	0.0000	419.4190
Maximum	**0.1266**	**0.5754**	**2.2228**	**4.8500e-003**	**0.2814**	**6.2000e-003**	**0.2876**	**0.0904**	**6.0200e-003**	**0.0964**	**0.0000**	**435.4063**	**435.4063**	**0.0560**	**0.0000**	**436.8057**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	54.92	74.89	-2.52	0.00	14.90	93.20	32.58	23.92	93.05	55.32	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	0.8049	0.1030
2	4-1-2019	6-30-2019	0.6774	0.0813
3	7-1-2019	9-30-2019	0.5412	0.1360
4	10-1-2019	12-31-2019	0.5015	0.1867
5	1-1-2020	3-31-2020	0.4528	0.1727
6	4-1-2020	6-30-2020	0.4491	0.1690
7	7-1-2020	9-30-2020	0.4540	0.1709
		Highest	0.8049	0.1867

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	5/10/2019	5	94	
2	Grading	Grading	5/13/2019	8/7/2019	5	63	
3	Building Construction	Building Construction	8/8/2019	12/31/2020	5	366	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20

Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	102.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Fugitive Dust					4.3800e-003	0.0000	4.3800e-003	6.6000e-004	0.0000	6.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1054	0.9918	0.6969	1.1700e-003		0.0538	0.0538		0.0510	0.0510	0.0000	103.1584	103.1584	0.0230	0.0000	103.7327
Total	**0.1054**	**0.9918**	**0.6969**	**1.1700e-003**	**4.3800e-003**	**0.0538**	**0.0582**	**6.6000e-004**	**0.0510**	**0.0516**	**0.0000**	**103.1584**	**103.1584**	**0.0230**	**0.0000**	**103.7327**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0157	3.1400e-003	4.0000e-005	8.8000e-004	6.0000e-005	9.3000e-004	2.4000e-004	5.0000e-005	3.0000e-004	0.0000	3.9090	3.9090	2.9000e-004	0.0000	3.9162
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0340	0.0271	0.2944	8.0000e-004	0.0774	6.2000e-004	0.0780	0.0205	5.7000e-004	0.0211	0.0000	71.9276	71.9276	2.2600e-003	0.0000	71.9840
Total	**0.0344**	**0.0428**	**0.2975**	**8.4000e-004**	**0.0782**	**6.8000e-004**	**0.0789**	**0.0208**	**6.2000e-004**	**0.0214**	**0.0000**	**75.8366**	**75.8366**	**2.5500e-003**	**0.0000**	**75.9002**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7100e-003	0.0000	1.7100e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0576	0.7279	1.1700e-003		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	103.1583	103.1583	0.0230	0.0000	103.7326

Total	**0.0133**	**0.0576**	**0.7279**	**1.1700e-003**	**1.7100e-003**	**1.7700e-003**	**3.4800e-003**	**2.6000e-004**	**1.7700e-003**	**2.0300e-003**	**0.0000**	**103.1583**	**103.1583**	**0.0230**	**0.0000**	**103.7326**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0157	3.1400e-003	4.0000e-005	8.8000e-004	6.0000e-005	9.3000e-004	2.4000e-004	5.0000e-005	3.0000e-004	0.0000	3.9090	3.9090	2.9000e-004	0.0000	3.9162
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0340	0.0271	0.2944	8.0000e-004	0.0774	6.2000e-004	0.0780	0.0205	5.7000e-004	0.0211	0.0000	71.9276	71.9276	2.2600e-003	0.0000	71.9840
Total	**0.0344**	**0.0428**	**0.2975**	**8.4000e-004**	**0.0782**	**6.8000e-004**	**0.0789**	**0.0208**	**6.2000e-004**	**0.0214**	**0.0000**	**75.8366**	**75.8366**	**2.5500e-003**	**0.0000**	**75.9002**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1440	0.0000	0.1440	0.0784	0.0000	0.0784	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0438	0.4959	0.1990	4.3000e-004		0.0226	0.0226		0.0208	0.0208	0.0000	38.8052	38.8052	0.0123	0.0000	39.1121
Total	**0.0438**	**0.4959**	**0.1990**	**4.3000e-004**	**0.1440**	**0.0226**	**0.1666**	**0.0784**	**0.0208**	**0.0992**	**0.0000**	**38.8052**	**38.8052**	**0.0123**	**0.0000**	**39.1121**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0228	0.0182	0.1973	5.3000e-004	0.0518	4.1000e-004	0.0523	0.0138	3.8000e-004	0.0142	0.0000	48.2068	48.2068	1.5100e-003	0.0000	48.2446
Total	**0.0228**	**0.0182**	**0.1973**	**5.3000e-004**	**0.0518**	**4.1000e-004**	**0.0523**	**0.0138**	**3.8000e-004**	**0.0142**	**0.0000**	**48.2068**	**48.2068**	**1.5100e-003**	**0.0000**	**48.2446**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0562	0.0000	0.0562	0.0306	0.0000	0.0306	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2800e-003	0.0229	0.2162	4.3000e-004		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	38.8051	38.8051	0.0123	0.0000	39.1121
Total	**5.2800e-003**	**0.0229**	**0.2162**	**4.3000e-004**	**0.0562**	**7.0000e-004**	**0.0569**	**0.0306**	**7.0000e-004**	**0.0313**	**0.0000**	**38.8051**	**38.8051**	**0.0123**	**0.0000**	**39.1121**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0228	0.0182	0.1973	5.3000e-004	0.0518	4.1000e-004	0.0523	0.0138	3.8000e-004	0.0142	0.0000	48.2068	48.2068	1.5100e-003	0.0000	48.2446
Total	**0.0228**	**0.0182**	**0.1973**	**5.3000e-004**	**0.0518**	**4.1000e-004**	**0.0523**	**0.0138**	**3.8000e-004**	**0.0142**	**0.0000**	**48.2068**	**48.2068**	**1.5100e-003**	**0.0000**	**48.2446**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0608	0.5137	0.4117	6.9000e-004		0.0297	0.0297		0.0284	0.0284	0.0000	59.0914	59.0914	0.0120	0.0000	59.3919
Total	**0.0608**	**0.5137**	**0.4117**	**6.9000e-004**		**0.0297**	**0.0297**		**0.0284**	**0.0284**	**0.0000**	**59.0914**	**59.0914**	**0.0120**	**0.0000**	**59.3919**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9500e-003	0.1461	0.0373	3.2000e-004	7.8600e-003	9.6000e-004	8.8200e-003	2.2700e-003	9.1000e-004	3.1800e-003	0.0000	30.7288	30.7288	2.1600e-003	0.0000	30.7827
Worker	0.0376	0.0300	0.3257	8.8000e-004	0.0856	6.8000e-004	0.0863	0.0227	6.3000e-004	0.0234	0.0000	79.5795	79.5795	2.5000e-003	0.0000	79.6418
Total	**0.0425**	**0.1761**	**0.3630**	**1.2000e-003**	**0.0934**	**1.6400e-003**	**0.0951**	**0.0250**	**1.5400e-003**	**0.0265**	**0.0000**	**110.3082**	**110.3082**	**4.6600e-003**	**0.0000**	**110.4245**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.3300e-003	0.0679	0.4208	6.9000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	59.0913	59.0913	0.0120	0.0000	59.3919
Total	**8.3300e-003**	**0.0679**	**0.4208**	**6.9000e-004**		**1.0000e-003**	**1.0000e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**59.0913**	**59.0913**	**0.0120**	**0.0000**	**59.3919**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9500e-003	0.1461	0.0373	3.2000e-004	7.8600e-003	9.6000e-004	8.8200e-003	2.2700e-003	9.1000e-004	3.1800e-003	0.0000	30.7288	30.7288	2.1600e-003	0.0000	30.7827
Worker	0.0376	0.0300	0.3257	8.8000e-004	0.0856	6.8000e-004	0.0863	0.0227	6.3000e-004	0.0234	0.0000	79.5795	79.5795	2.5000e-003	0.0000	79.6418
Total	**0.0425**	**0.1761**	**0.3630**	**1.2000e-003**	**0.0934**	**1.6400e-003**	**0.0951**	**0.0250**	**1.5400e-003**	**0.0265**	**0.0000**	**110.3082**	**110.3082**	**4.6600e-003**	**0.0000**	**110.4245**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1373	1.1836	1.0162	1.7300e-003		0.0650	0.0650		0.0620	0.0620	0.0000	147.2298	147.2298	0.0295	0.0000	147.9682
Total	**0.1373**	**1.1836**	**1.0162**	**1.7300e-003**		**0.0650**	**0.0650**		**0.0620**	**0.0620**	**0.0000**	**147.2298**	**147.2298**	**0.0295**	**0.0000**	**147.9682**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.3371	0.0850	7.9000e-004	0.0198	1.6500e-003	0.0215	5.7200e-003	1.5800e-003	7.2900e-003	0.0000	76.9171	76.9171	5.1300e-003	0.0000	77.0455
Worker	0.0875	0.0673	0.7455	2.1500e-003	0.2156	1.6800e-003	0.2173	0.0573	1.5400e-003	0.0588	0.0000	194.2657	194.2657	5.5900e-003	0.0000	194.4055
Total	**0.0981**	**0.4045**	**0.8305**	**2.9400e-003**	**0.2354**	**3.3300e-003**	**0.2387**	**0.0630**	**3.1200e-003**	**0.0661**	**0.0000**	**271.1828**	**271.1828**	**0.0107**	**0.0000**	**271.4510**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0210	0.1710	1.0601	1.7300e-003		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	147.2296	147.2296	0.0295	0.0000	147.9681

Total	**0.0210**	**0.1710**	**1.0601**	**1.7300e-003**		**2.5100e-003**	**2.5100e-003**		**2.5100e-003**	**2.5100e-003**	**0.0000**	**147.2296**	**147.2296**	**0.0295**	**0.0000**	**147.9681**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.3371	0.0850	7.9000e-004	0.0198	1.6500e-003	0.0215	5.7200e-003	1.5800e-003	7.2900e-003	0.0000	76.9171	76.9171	5.1300e-003	0.0000	77.0455
Worker	0.0875	0.0673	0.7455	2.1500e-003	0.2156	1.6800e-003	0.2173	0.0573	1.5400e-003	0.0588	0.0000	194.2657	194.2657	5.5900e-003	0.0000	194.4055
Total	**0.0981**	**0.4045**	**0.8305**	**2.9400e-003**	**0.2354**	**3.3300e-003**	**0.2387**	**0.0630**	**3.1200e-003**	**0.0661**	**0.0000**	**271.1828**	**271.1828**	**0.0107**	**0.0000**	**271.4510**

LAUSD Jefferson HS - Phase 3

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimates of Phase 3 area

Construction Off-road Equipment Mitigation - Project specific information

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	24.75	2.75
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,025.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00
tblTripsAndVMT	WorkerTripNumber	12.00	150.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2665	2.0214	1.9914	5.0400e-003	0.4260	0.0869	0.5129	0.1505	0.0817	0.2322	0.0000	452.0722	452.0722	0.0555	0.0000	453.4605
2022	0.8704	1.2046	1.7232	4.5800e-003	0.2650	0.0469	0.3119	0.0708	0.0447	0.1154	0.0000	409.9161	409.9161	0.0366	0.0000	410.8310
Maximum	**0.8704**	**2.0214**	**1.9914**	**5.0400e-003**	**0.4260**	**0.0869**	**0.5129**	**0.1505**	**0.0817**	**0.2322**	**0.0000**	**452.0722**	**452.0722**	**0.0555**	**0.0000**	**453.4605**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1155	0.4701	2.0858	5.0400e-003	0.3075	5.7100e-003	0.3132	0.0964	5.5600e-003	0.1020	0.0000	452.0720	452.0720	0.0555	0.0000	453.4603
2022	0.7871	0.4557	1.7987	4.5800e-003	0.2650	4.6300e-003	0.2696	0.0708	4.4700e-003	0.0752	0.0000	409.9159	409.9159	0.0366	0.0000	410.8308
Maximum	**0.7871**	**0.4701**	**2.0858**	**5.0400e-003**	**0.3075**	**5.7100e-003**	**0.3132**	**0.0964**	**5.5600e-003**	**0.1020**	**0.0000**	**452.0720**	**452.0720**	**0.0555**	**0.0000**	**453.4603**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**20.61**	**71.30**	**-4.57**	**0.00**	**17.16**	**92.27**	**29.34**	**24.46**	**92.06**	**49.04**	**0.00**	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2021**	**3-31-2021**	0.7799	0.1864
2	**4-1-2021**	**6-30-2021**	0.6266	0.1080
3	**7-1-2021**	**9-30-2021**	0.4610	0.1233
4	**10-1-2021**	**12-31-2021**	0.4167	0.1633
5	**1-1-2022**	**3-31-2022**	0.3723	0.1532
6	**4-1-2022**	**6-30-2022**	0.3734	0.1518
7	**7-1-2022**	**9-30-2022**	0.3775	0.1535
		Highest	0.7799	0.1864

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	5/4/2021	5	88	
2	Grading	Grading	5/5/2021	8/4/2021	5	66	
3	Building Construction	Building Construction	8/5/2021	11/2/2022	5	325	

4	Paving	Paving	11/3/2022	12/31/2022	5	42	
5	Architectural Coating	Architectural Coating	11/3/2022	12/31/2022	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,500; Non-Residential Outdoor: 72,500; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	1,025.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0439	0.0000	0.0439	6.6400e-003	0.0000	6.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0856	0.7933	0.6395	1.0900e-003		0.0412	0.0412		0.0389	0.0389	0.0000	95.2977	95.2977	0.0210	0.0000	95.8238
Total	**0.0856**	**0.7933**	**0.6395**	**1.0900e-003**	**0.0439**	**0.0412**	**0.0850**	**6.6400e-003**	**0.0389**	**0.0455**	**0.0000**	**95.2977**	**95.2977**	**0.0210**	**0.0000**	**95.8238**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9400e-003	0.1371	0.0302	3.9000e-004	8.8100e-003	4.2000e-004	9.2200e-003	2.4200e-003	4.0000e-004	2.8200e-003	0.0000	38.4617	38.4617	2.7700e-003	0.0000	38.5311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0204	0.2303	7.0000e-004	0.0724	5.5000e-004	0.0730	0.0192	5.0000e-004	0.0197	0.0000	63.1390	63.1390	1.7000e-003	0.0000	63.1815
Total	**0.0314**	**0.1574**	**0.2605**	**1.0900e-003**	**0.0812**	**9.7000e-004**	**0.0822**	**0.0217**	**9.0000e-004**	**0.0226**	**0.0000**	**101.6008**	**101.6008**	**4.4700e-003**	**0.0000**	**101.7126**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0171	0.0000	0.0171	2.5900e-003	0.0000	2.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.0540	0.6815	1.0900e-003		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	95.2976	95.2976	0.0210	0.0000	95.8237
Total	**0.0125**	**0.0540**	**0.6815**	**1.0900e-003**	**0.0171**	**1.6600e-003**	**0.0188**	**2.5900e-003**	**1.6600e-003**	**4.2500e-003**	**0.0000**	**95.2976**	**95.2976**	**0.0210**	**0.0000**	**95.8237**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9400e-003	0.1371	0.0302	3.9000e-004	8.8100e-003	4.2000e-004	9.2200e-003	2.4200e-003	4.0000e-004	2.8200e-003	0.0000	38.4617	38.4617	2.7700e-003	0.0000	38.5311

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0204	0.2303	7.0000e-004	0.0724	5.5000e-004	0.0730	0.0192	5.0000e-004	0.0197	0.0000	63.1390	63.1390	1.7000e-003	0.0000	63.1815
Total	**0.0314**	**0.1574**	**0.2605**	**1.0900e-003**	**0.0812**	**9.7000e-004**	**0.0822**	**0.0217**	**9.0000e-004**	**0.0226**	**0.0000**	**101.6008**	**101.6008**	**4.4700e-003**	**0.0000**	**101.7126**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1505	0.0000	0.1505	0.0821	0.0000	0.0821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.4651	0.1996	4.5000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	39.7401	39.7401	0.0129	0.0000	40.0614
Total	**0.0417**	**0.4651**	**0.1996**	**4.5000e-004**	**0.1505**	**0.0206**	**0.1711**	**0.0821**	**0.0189**	**0.1010**	**0.0000**	**39.7401**	**39.7401**	**0.0129**	**0.0000**	**40.0614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0206	0.0153	0.1728	5.2000e-004	0.0543	4.1000e-004	0.0547	0.0144	3.8000e-004	0.0148	0.0000	47.3543	47.3543	1.2700e-003	0.0000	47.3861
Total	**0.0206**	**0.0153**	**0.1728**	**5.2000e-004**	**0.0543**	**4.1000e-004**	**0.0547**	**0.0144**	**3.8000e-004**	**0.0148**	**0.0000**	**47.3543**	**47.3543**	**1.2700e-003**	**0.0000**	**47.3861**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0587	0.0000	0.0587	0.0320	0.0000	0.0320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5400e-003	0.0240	0.2265	4.5000e-004		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	39.7400	39.7400	0.0129	0.0000	40.0613
Total	**5.5400e-003**	**0.0240**	**0.2265**	**4.5000e-004**	**0.0587**	**7.4000e-004**	**0.0594**	**0.0320**	**7.4000e-004**	**0.0328**	**0.0000**	**39.7400**	**39.7400**	**0.0129**	**0.0000**	**40.0613**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0206	0.0153	0.1728	5.2000e-004	0.0543	4.1000e-004	0.0547	0.0144	3.8000e-004	0.0148	0.0000	47.3543	47.3543	1.2700e-003	0.0000	47.3861
Total	**0.0206**	**0.0153**	**0.1728**	**5.2000e-004**	**0.0543**	**4.1000e-004**	**0.0547**	**0.0144**	**3.8000e-004**	**0.0148**	**0.0000**	**47.3543**	**47.3543**	**1.2700e-003**	**0.0000**	**47.3861**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Off-Road	0.0502	0.4407	0.4074	7.1000e-004		0.0228	0.0228		0.0218	0.0218	0.0000	60.1318	60.1318	0.0118	0.0000	60.4270
Total	**0.0502**	**0.4407**	**0.4074**	**7.1000e-004**		**0.0228**	**0.0228**		**0.0218**	**0.0218**	**0.0000**	**60.1318**	**60.1318**	**0.0118**	**0.0000**	**60.4270**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6900e-003	0.1249	0.0316	3.2000e-004	8.0900e-003	2.5000e-004	8.3500e-003	2.3300e-003	2.4000e-004	2.5800e-003	0.0000	31.1764	31.1764	2.0100e-003	0.0000	31.2266
Worker	0.0334	0.0248	0.2801	8.5000e-004	0.0880	6.6000e-004	0.0887	0.0234	6.1000e-004	0.0240	0.0000	76.7713	76.7713	2.0700e-003	0.0000	76.8230
Total	**0.0370**	**0.1496**	**0.3116**	**1.1700e-003**	**0.0961**	**9.1000e-004**	**0.0971**	**0.0257**	**8.5000e-004**	**0.0266**	**0.0000**	**107.9477**	**107.9477**	**4.0800e-003**	**0.0000**	**108.0496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.5700e-003	0.0698	0.4329	7.1000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	60.1317	60.1317	0.0118	0.0000	60.4270
Total	**8.5700e-003**	**0.0698**	**0.4329**	**7.1000e-004**		**1.0300e-003**	**1.0300e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**60.1317**	**60.1317**	**0.0118**	**0.0000**	**60.4270**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6900e-003	0.1249	0.0316	3.2000e-004	8.0900e-003	2.5000e-004	8.3500e-003	2.3300e-003	2.4000e-004	2.5800e-003	0.0000	31.1764	31.1764	2.0100e-003	0.0000	31.2266
Worker	0.0334	0.0248	0.2801	8.5000e-004	0.0880	6.6000e-004	0.0887	0.0234	6.1000e-004	0.0240	0.0000	76.7713	76.7713	2.0700e-003	0.0000	76.8230
Total	**0.0370**	**0.1496**	**0.3116**	**1.1700e-003**	**0.0961**	**9.1000e-004**	**0.0971**	**0.0257**	**8.5000e-004**	**0.0266**	**0.0000**	**107.9477**	**107.9477**	**4.0800e-003**	**0.0000**	**108.0496**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0927	0.8102	0.8195	1.4400e-003		0.0398	0.0398		0.0380	0.0380	0.0000	122.5411	122.5411	0.0238	0.0000	123.1348
Total	**0.0927**	**0.8102**	**0.8195**	**1.4400e-003**		**0.0398**	**0.0398**		**0.0380**	**0.0380**	**0.0000**	**122.5411**	**122.5411**	**0.0238**	**0.0000**	**123.1348**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0600e-003	0.2414	0.0609	6.5000e-004	0.0165	4.5000e-004	0.0169	4.7600e-003	4.3000e-004	5.1900e-003	0.0000	62.9571	62.9571	3.9500e-003	0.0000	63.0559
Worker	0.0638	0.0456	0.5269	1.6700e-003	0.1794	1.3100e-003	0.1807	0.0476	1.2100e-003	0.0489	0.0000	150.8102	150.8102	3.8000e-003	0.0000	150.9053
Total	**0.0709**	**0.2870**	**0.5878**	**2.3200e-003**	**0.1959**	**1.7600e-003**	**0.1976**	**0.0524**	**1.6400e-003**	**0.0540**	**0.0000**	**213.7673**	**213.7673**	**7.7500e-003**	**0.0000**	**213.9612**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0175	0.1423	0.8821	1.4400e-003		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	122.5410	122.5410	0.0238	0.0000	123.1347
Total	**0.0175**	**0.1423**	**0.8821**	**1.4400e-003**		**2.0900e-003**	**2.0900e-003**		**2.0900e-003**	**2.0900e-003**	**0.0000**	**122.5410**	**122.5410**	**0.0238**	**0.0000**	**123.1347**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0600e-003	0.2414	0.0609	6.5000e-004	0.0165	4.5000e-004	0.0169	4.7600e-003	4.3000e-004	5.1900e-003	0.0000	62.9571	62.9571	3.9500e-003	0.0000	63.0559
Worker	0.0638	0.0456	0.5269	1.6700e-003	0.1794	1.3100e-003	0.1807	0.0476	1.2100e-003	0.0489	0.0000	150.8102	150.8102	3.8000e-003	0.0000	150.9053
Total	**0.0709**	**0.2870**	**0.5878**	**2.3200e-003**	**0.1959**	**1.7600e-003**	**0.1976**	**0.0524**	**1.6400e-003**	**0.0540**	**0.0000**	**213.7673**	**213.7673**	**7.7500e-003**	**0.0000**	**213.9612**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8800e-003	0.0602	0.0747	1.2000e-004		3.1400e-003	3.1400e-003		2.8900e-003	2.8900e-003	0.0000	10.1355	10.1355	3.2800e-003	0.0000	10.2174
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.8800e-003**	**0.0602**	**0.0747**	**1.2000e-004**		**3.1400e-003**	**3.1400e-003**		**2.8900e-003**	**2.8900e-003**	**0.0000**	**10.1355**	**10.1355**	**3.2800e-003**	**0.0000**	**10.2174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	8.7800e-003	0.1015	3.2000e-004	0.0346	2.5000e-004	0.0348	9.1800e-003	2.3000e-004	9.4100e-003	0.0000	29.0552	29.0552	7.3000e-004	0.0000	29.0735
Total	**0.0123**	**8.7800e-003**	**0.1015**	**3.2000e-004**	**0.0346**	**2.5000e-004**	**0.0348**	**9.1800e-003**	**2.3000e-004**	**9.4100e-003**	**0.0000**	**29.0552**	**29.0552**	**7.3000e-004**	**0.0000**	**29.0735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4200e-003	6.1400e-003	0.0874	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.1355	10.1355	3.2800e-003	0.0000	10.2174
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4200e-003**	**6.1400e-003**	**0.0874**	**1.2000e-004**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**10.1355**	**10.1355**	**3.2800e-003**	**0.0000**	**10.2174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	8.7800e-003	0.1015	3.2000e-004	0.0346	2.5000e-004	0.0348	9.1800e-003	2.3000e-004	9.4100e-003	0.0000	29.0552	29.0552	7.3000e-004	0.0000	29.0735
Total	**0.0123**	**8.7800e-003**	**0.1015**	**3.2000e-004**	**0.0346**	**2.5000e-004**	**0.0348**	**9.1800e-003**	**2.3000e-004**	**9.4100e-003**	**0.0000**	**29.0552**	**29.0552**	**7.3000e-004**	**0.0000**	**29.0735**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	**0.6764**	**0.0296**	**0.0381**	**6.0000e-005**		**1.7200e-003**	**1.7200e-003**		**1.7200e-003**	**1.7200e-003**	**0.0000**	**5.3618**	**5.3618**	**3.5000e-004**	**0.0000**	**5.3706**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	8.7800e-003	0.1015	3.2000e-004	0.0346	2.5000e-004	0.0348	9.1800e-003	2.3000e-004	9.4100e-003	0.0000	29.0552	29.0552	7.3000e-004	0.0000	29.0735
Total	**0.0123**	**8.7800e-003**	**0.1015**	**3.2000e-004**	**0.0346**	**2.5000e-004**	**0.0348**	**9.1800e-003**	**2.3000e-004**	**9.4100e-003**	**0.0000**	**29.0552**	**29.0552**	**7.3000e-004**	**0.0000**	**29.0735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	6.2000e-004	2.7000e-003	0.0385	6.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	**0.6727**	**2.7000e-003**	**0.0385**	**6.0000e-005**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**5.3618**	**5.3618**	**3.5000e-004**	**0.0000**	**5.3706**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	8.7800e-003	0.1015	3.2000e-004	0.0346	2.5000e-004	0.0348	9.1800e-003	2.3000e-004	9.4100e-003	0.0000	29.0552	29.0552	7.3000e-004	0.0000	29.0735
Total	**0.0123**	**8.7800e-003**	**0.1015**	**3.2000e-004**	**0.0346**	**2.5000e-004**	**0.0348**	**9.1800e-003**	**2.3000e-004**	**9.4100e-003**	**0.0000**	**29.0552**	**29.0552**	**7.3000e-004**	**0.0000**	**29.0735**

LAUSD Jefferson HS - Phase 3

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimates of Phase 3 area

Construction Off-road Equipment Mitigation - Project specific information

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	24.75	2.75
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,025.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00
tblTripsAndVMT	WorkerTripNumber	12.00	150.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2665	2.0214	1.9914	5.0400e-003	0.4260	0.0869	0.5129	0.1505	0.0817	0.2322	0.0000	452.0722	452.0722	0.0555	0.0000	453.4605
2022	0.8704	1.2046	1.7232	4.5800e-003	0.2650	0.0469	0.3119	0.0708	0.0447	0.1154	0.0000	409.9161	409.9161	0.0366	0.0000	410.8310
Maximum	**0.8704**	**2.0214**	**1.9914**	**5.0400e-003**	**0.4260**	**0.0869**	**0.5129**	**0.1505**	**0.0817**	**0.2322**	**0.0000**	**452.0722**	**452.0722**	**0.0555**	**0.0000**	**453.4605**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1155	0.4701	2.0858	5.0400e-003	0.3075	5.7100e-003	0.3132	0.0964	5.5600e-003	0.1020	0.0000	452.0720	452.0720	0.0555	0.0000	453.4603
2022	0.7871	0.4557	1.7987	4.5800e-003	0.2650	4.6300e-003	0.2696	0.0708	4.4700e-003	0.0752	0.0000	409.9159	409.9159	0.0366	0.0000	410.8308
Maximum	**0.7871**	**0.4701**	**2.0858**	**5.0400e-003**	**0.3075**	**5.7100e-003**	**0.3132**	**0.0964**	**5.5600e-003**	**0.1020**	**0.0000**	**452.0720**	**452.0720**	**0.0555**	**0.0000**	**453.4603**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**20.61**	**71.30**	**-4.57**	**0.00**	**17.16**	**92.27**	**29.34**	**24.46**	**92.06**	**49.04**	**0.00**	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2021**	**3-31-2021**	0.7799	0.1864
2	**4-1-2021**	**6-30-2021**	0.6266	0.1080
3	**7-1-2021**	**9-30-2021**	0.4610	0.1233
4	**10-1-2021**	**12-31-2021**	0.4167	0.1633
5	**1-1-2022**	**3-31-2022**	0.3723	0.1532
6	**4-1-2022**	**6-30-2022**	0.3734	0.1518
7	**7-1-2022**	**9-30-2022**	0.3775	0.1535
		Highest	0.7799	0.1864

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	5/4/2021	5	88	
2	Grading	Grading	5/5/2021	8/4/2021	5	66	
3	Building Construction	Building Construction	8/5/2021	11/2/2022	5	325	

4	Paving	Paving	11/3/2022	12/31/2022	5	42	
5	Architectural Coating	Architectural Coating	11/3/2022	12/31/2022	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,500; Non-Residential Outdoor: 72,500; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	1,025.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0439	0.0000	0.0439	6.6400e-003	0.0000	6.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0856	0.7933	0.6395	1.0900e-003		0.0412	0.0412		0.0389	0.0389	0.0000	95.2977	95.2977	0.0210	0.0000	95.8238
Total	**0.0856**	**0.7933**	**0.6395**	**1.0900e-003**	**0.0439**	**0.0412**	**0.0850**	**6.6400e-003**	**0.0389**	**0.0455**	**0.0000**	**95.2977**	**95.2977**	**0.0210**	**0.0000**	**95.8238**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9400e-003	0.1371	0.0302	3.9000e-004	8.8100e-003	4.2000e-004	9.2200e-003	2.4200e-003	4.0000e-004	2.8200e-003	0.0000	38.4617	38.4617	2.7700e-003	0.0000	38.5311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0204	0.2303	7.0000e-004	0.0724	5.5000e-004	0.0730	0.0192	5.0000e-004	0.0197	0.0000	63.1390	63.1390	1.7000e-003	0.0000	63.1815
Total	**0.0314**	**0.1574**	**0.2605**	**1.0900e-003**	**0.0812**	**9.7000e-004**	**0.0822**	**0.0217**	**9.0000e-004**	**0.0226**	**0.0000**	**101.6008**	**101.6008**	**4.4700e-003**	**0.0000**	**101.7126**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0171	0.0000	0.0171	2.5900e-003	0.0000	2.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.0540	0.6815	1.0900e-003		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	95.2976	95.2976	0.0210	0.0000	95.8237
Total	**0.0125**	**0.0540**	**0.6815**	**1.0900e-003**	**0.0171**	**1.6600e-003**	**0.0188**	**2.5900e-003**	**1.6600e-003**	**4.2500e-003**	**0.0000**	**95.2976**	**95.2976**	**0.0210**	**0.0000**	**95.8237**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9400e-003	0.1371	0.0302	3.9000e-004	8.8100e-003	4.2000e-004	9.2200e-003	2.4200e-003	4.0000e-004	2.8200e-003	0.0000	38.4617	38.4617	2.7700e-003	0.0000	38.5311

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0204	0.2303	7.0000e-004	0.0724	5.5000e-004	0.0730	0.0192	5.0000e-004	0.0197	0.0000	63.1390	63.1390	1.7000e-003	0.0000	63.1815
Total	**0.0314**	**0.1574**	**0.2605**	**1.0900e-003**	**0.0812**	**9.7000e-004**	**0.0822**	**0.0217**	**9.0000e-004**	**0.0226**	**0.0000**	**101.6008**	**101.6008**	**4.4700e-003**	**0.0000**	**101.7126**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1505	0.0000	0.1505	0.0821	0.0000	0.0821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.4651	0.1996	4.5000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	39.7401	39.7401	0.0129	0.0000	40.0614
Total	**0.0417**	**0.4651**	**0.1996**	**4.5000e-004**	**0.1505**	**0.0206**	**0.1711**	**0.0821**	**0.0189**	**0.1010**	**0.0000**	**39.7401**	**39.7401**	**0.0129**	**0.0000**	**40.0614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0206	0.0153	0.1728	5.2000e-004	0.0543	4.1000e-004	0.0547	0.0144	3.8000e-004	0.0148	0.0000	47.3543	47.3543	1.2700e-003	0.0000	47.3861
Total	**0.0206**	**0.0153**	**0.1728**	**5.2000e-004**	**0.0543**	**4.1000e-004**	**0.0547**	**0.0144**	**3.8000e-004**	**0.0148**	**0.0000**	**47.3543**	**47.3543**	**1.2700e-003**	**0.0000**	**47.3861**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0587	0.0000	0.0587	0.0320	0.0000	0.0320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5400e-003	0.0240	0.2265	4.5000e-004		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	39.7400	39.7400	0.0129	0.0000	40.0613
Total	**5.5400e-003**	**0.0240**	**0.2265**	**4.5000e-004**	**0.0587**	**7.4000e-004**	**0.0594**	**0.0320**	**7.4000e-004**	**0.0328**	**0.0000**	**39.7400**	**39.7400**	**0.0129**	**0.0000**	**40.0613**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0206	0.0153	0.1728	5.2000e-004	0.0543	4.1000e-004	0.0547	0.0144	3.8000e-004	0.0148	0.0000	47.3543	47.3543	1.2700e-003	0.0000	47.3861
Total	**0.0206**	**0.0153**	**0.1728**	**5.2000e-004**	**0.0543**	**4.1000e-004**	**0.0547**	**0.0144**	**3.8000e-004**	**0.0148**	**0.0000**	**47.3543**	**47.3543**	**1.2700e-003**	**0.0000**	**47.3861**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Off-Road	0.0502	0.4407	0.4074	7.1000e-004		0.0228	0.0228		0.0218	0.0218	0.0000	60.1318	60.1318	0.0118	0.0000	60.4270
Total	**0.0502**	**0.4407**	**0.4074**	**7.1000e-004**		**0.0228**	**0.0228**		**0.0218**	**0.0218**	**0.0000**	**60.1318**	**60.1318**	**0.0118**	**0.0000**	**60.4270**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6900e-003	0.1249	0.0316	3.2000e-004	8.0900e-003	2.5000e-004	8.3500e-003	2.3300e-003	2.4000e-004	2.5800e-003	0.0000	31.1764	31.1764	2.0100e-003	0.0000	31.2266
Worker	0.0334	0.0248	0.2801	8.5000e-004	0.0880	6.6000e-004	0.0887	0.0234	6.1000e-004	0.0240	0.0000	76.7713	76.7713	2.0700e-003	0.0000	76.8230
Total	**0.0370**	**0.1496**	**0.3116**	**1.1700e-003**	**0.0961**	**9.1000e-004**	**0.0971**	**0.0257**	**8.5000e-004**	**0.0266**	**0.0000**	**107.9477**	**107.9477**	**4.0800e-003**	**0.0000**	**108.0496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.5700e-003	0.0698	0.4329	7.1000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	60.1317	60.1317	0.0118	0.0000	60.4270
Total	**8.5700e-003**	**0.0698**	**0.4329**	**7.1000e-004**		**1.0300e-003**	**1.0300e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**60.1317**	**60.1317**	**0.0118**	**0.0000**	**60.4270**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6900e-003	0.1249	0.0316	3.2000e-004	8.0900e-003	2.5000e-004	8.3500e-003	2.3300e-003	2.4000e-004	2.5800e-003	0.0000	31.1764	31.1764	2.0100e-003	0.0000	31.2266
Worker	0.0334	0.0248	0.2801	8.5000e-004	0.0880	6.6000e-004	0.0887	0.0234	6.1000e-004	0.0240	0.0000	76.7713	76.7713	2.0700e-003	0.0000	76.8230
Total	**0.0370**	**0.1496**	**0.3116**	**1.1700e-003**	**0.0961**	**9.1000e-004**	**0.0971**	**0.0257**	**8.5000e-004**	**0.0266**	**0.0000**	**107.9477**	**107.9477**	**4.0800e-003**	**0.0000**	**108.0496**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0927	0.8102	0.8195	1.4400e-003		0.0398	0.0398		0.0380	0.0380	0.0000	122.5411	122.5411	0.0238	0.0000	123.1348
Total	**0.0927**	**0.8102**	**0.8195**	**1.4400e-003**		**0.0398**	**0.0398**		**0.0380**	**0.0380**	**0.0000**	**122.5411**	**122.5411**	**0.0238**	**0.0000**	**123.1348**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0600e-003	0.2414	0.0609	6.5000e-004	0.0165	4.5000e-004	0.0169	4.7600e-003	4.3000e-004	5.1900e-003	0.0000	62.9571	62.9571	3.9500e-003	0.0000	63.0559
Worker	0.0638	0.0456	0.5269	1.6700e-003	0.1794	1.3100e-003	0.1807	0.0476	1.2100e-003	0.0489	0.0000	150.8102	150.8102	3.8000e-003	0.0000	150.9053
Total	**0.0709**	**0.2870**	**0.5878**	**2.3200e-003**	**0.1959**	**1.7600e-003**	**0.1976**	**0.0524**	**1.6400e-003**	**0.0540**	**0.0000**	**213.7673**	**213.7673**	**7.7500e-003**	**0.0000**	**213.9612**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0175	0.1423	0.8821	1.4400e-003		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	122.5410	122.5410	0.0238	0.0000	123.1347
Total	**0.0175**	**0.1423**	**0.8821**	**1.4400e-003**		**2.0900e-003**	**2.0900e-003**		**2.0900e-003**	**2.0900e-003**	**0.0000**	**122.5410**	**122.5410**	**0.0238**	**0.0000**	**123.1347**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0600e-003	0.2414	0.0609	6.5000e-004	0.0165	4.5000e-004	0.0169	4.7600e-003	4.3000e-004	5.1900e-003	0.0000	62.9571	62.9571	3.9500e-003	0.0000	63.0559
Worker	0.0638	0.0456	0.5269	1.6700e-003	0.1794	1.3100e-003	0.1807	0.0476	1.2100e-003	0.0489	0.0000	150.8102	150.8102	3.8000e-003	0.0000	150.9053
Total	**0.0709**	**0.2870**	**0.5878**	**2.3200e-003**	**0.1959**	**1.7600e-003**	**0.1976**	**0.0524**	**1.6400e-003**	**0.0540**	**0.0000**	**213.7673**	**213.7673**	**7.7500e-003**	**0.0000**	**213.9612**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8800e-003	0.0602	0.0747	1.2000e-004		3.1400e-003	3.1400e-003		2.8900e-003	2.8900e-003	0.0000	10.1355	10.1355	3.2800e-003	0.0000	10.2174
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.8800e-003**	**0.0602**	**0.0747**	**1.2000e-004**		**3.1400e-003**	**3.1400e-003**		**2.8900e-003**	**2.8900e-003**	**0.0000**	**10.1355**	**10.1355**	**3.2800e-003**	**0.0000**	**10.2174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	8.7800e-003	0.1015	3.2000e-004	0.0346	2.5000e-004	0.0348	9.1800e-003	2.3000e-004	9.4100e-003	0.0000	29.0552	29.0552	7.3000e-004	0.0000	29.0735
Total	**0.0123**	**8.7800e-003**	**0.1015**	**3.2000e-004**	**0.0346**	**2.5000e-004**	**0.0348**	**9.1800e-003**	**2.3000e-004**	**9.4100e-003**	**0.0000**	**29.0552**	**29.0552**	**7.3000e-004**	**0.0000**	**29.0735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4200e-003	6.1400e-003	0.0874	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.1355	10.1355	3.2800e-003	0.0000	10.2174
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4200e-003**	**6.1400e-003**	**0.0874**	**1.2000e-004**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**10.1355**	**10.1355**	**3.2800e-003**	**0.0000**	**10.2174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	8.7800e-003	0.1015	3.2000e-004	0.0346	2.5000e-004	0.0348	9.1800e-003	2.3000e-004	9.4100e-003	0.0000	29.0552	29.0552	7.3000e-004	0.0000	29.0735
Total	**0.0123**	**8.7800e-003**	**0.1015**	**3.2000e-004**	**0.0346**	**2.5000e-004**	**0.0348**	**9.1800e-003**	**2.3000e-004**	**9.4100e-003**	**0.0000**	**29.0552**	**29.0552**	**7.3000e-004**	**0.0000**	**29.0735**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-003	0.0296	0.0381	6.0000e-005		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	**0.6764**	**0.0296**	**0.0381**	**6.0000e-005**		**1.7200e-003**	**1.7200e-003**		**1.7200e-003**	**1.7200e-003**	**0.0000**	**5.3618**	**5.3618**	**3.5000e-004**	**0.0000**	**5.3706**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	8.7800e-003	0.1015	3.2000e-004	0.0346	2.5000e-004	0.0348	9.1800e-003	2.3000e-004	9.4100e-003	0.0000	29.0552	29.0552	7.3000e-004	0.0000	29.0735
Total	**0.0123**	**8.7800e-003**	**0.1015**	**3.2000e-004**	**0.0346**	**2.5000e-004**	**0.0348**	**9.1800e-003**	**2.3000e-004**	**9.4100e-003**	**0.0000**	**29.0552**	**29.0552**	**7.3000e-004**	**0.0000**	**29.0735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	6.2000e-004	2.7000e-003	0.0385	6.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	5.3618	5.3618	3.5000e-004	0.0000	5.3706
Total	**0.6727**	**2.7000e-003**	**0.0385**	**6.0000e-005**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**5.3618**	**5.3618**	**3.5000e-004**	**0.0000**	**5.3706**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0123	8.7800e-003	0.1015	3.2000e-004	0.0346	2.5000e-004	0.0348	9.1800e-003	2.3000e-004	9.4100e-003	0.0000	29.0552	29.0552	7.3000e-004	0.0000	29.0735
Total	**0.0123**	**8.7800e-003**	**0.1015**	**3.2000e-004**	**0.0346**	**2.5000e-004**	**0.0348**	**9.1800e-003**	**2.3000e-004**	**9.4100e-003**	**0.0000**	**29.0552**	**29.0552**	**7.3000e-004**	**0.0000**	**29.0735**

LAUSD Jefferson HS - Phase 4

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2025
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimate for Phase 4 area

Construction Off-road Equipment Mitigation - Tier 4 equipment

Off-road Equipment -

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	24.75	3.94
tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	287.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	8.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00
tblTripsAndVMT	WorkerTripNumber	12.00	150.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2129	1.4378	1.7885	4.5700e-003	0.3878	0.0604	0.4483	0.1438	0.0569	0.2008	0.0000	407.6365	407.6365	0.0514	0.0000	408.9225
2024	0.8465	1.0207	1.6135	4.4300e-003	0.2668	0.0366	0.3034	0.0712	0.0348	0.1060	0.0000	396.3327	396.3327	0.0348	0.0000	397.2025
Maximum	**0.8465**	**1.4378**	**1.7885**	**4.5700e-003**	**0.3878**	**0.0604**	**0.4483**	**0.1438**	**0.0569**	**0.2008**	**0.0000**	**407.6365**	**407.6365**	**0.0514**	**0.0000**	**408.9225**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1014	0.3071	1.9504	4.5700e-003	0.2882	5.0800e-003	0.2932	0.0926	4.9600e-003	0.0975	0.0000	407.6363	407.6363	0.0514	0.0000	408.9222
2024	0.7763	0.3871	1.7012	4.4300e-003	0.2668	4.3500e-003	0.2711	0.0712	4.2000e-003	0.0754	0.0000	396.3325	396.3325	0.0348	0.0000	397.2024
Maximum	**0.7763**	**0.3871**	**1.9504**	**4.5700e-003**	**0.2882**	**5.0800e-003**	**0.2932**	**0.0926**	**4.9600e-003**	**0.0975**	**0.0000**	**407.6363**	**407.6363**	**0.0514**	**0.0000**	**408.9222**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**17.16**	**71.76**	**-7.34**	**0.00**	**15.23**	**90.28**	**24.91**	**23.83**	**90.01**	**43.62**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2023**	**3-31-2023**	0.5230	0.0969
2	**4-1-2023**	**6-30-2023**	0.4348	0.0713
3	**7-1-2023**	**9-30-2023**	0.3555	0.1055
4	**10-1-2023**	**12-31-2023**	0.3396	0.1358
5	**1-1-2024**	**3-31-2024**	0.3178	0.1321
6	**4-1-2024**	**6-30-2024**	0.3151	0.1294
7	**7-1-2024**	**9-30-2024**	0.3186	0.1308
		Highest	0.5230	0.1358

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	5/3/2023	5	88	
2	Grading	Grading	5/4/2023	8/3/2023	5	66	
3	Building Construction	Building Construction	8/4/2023	11/1/2024	5	326	

4	Paving	Paving	11/4/2024	12/31/2024	5	42	
5	Architectural Coating	Architectural Coating	11/4/2024	12/31/2024	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.94

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,500; Non-Residential Outdoor: 72,500; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	6.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	6.00	46	0.45
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	150.00	0.00	287.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0123	0.0000	0.0123	1.8600e-003	0.0000	1.8600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0662	0.5835	0.6056	1.0900e-003		0.0283	0.0283		0.0268	0.0268	0.0000	95.2767	95.2767	0.0207	0.0000	95.7944
Total	**0.0662**	**0.5835**	**0.6056**	**1.0900e-003**	**0.0123**	**0.0283**	**0.0406**	**1.8600e-003**	**0.0268**	**0.0287**	**0.0000**	**95.2767**	**95.2767**	**0.0207**	**0.0000**	**95.7944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0227	7.5700e-003	1.0000e-004	2.4700e-003	4.0000e-005	2.5100e-003	6.8000e-004	4.0000e-005	7.2000e-004	0.0000	10.2045	10.2045	7.1000e-004	0.0000	10.2222
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0243	0.0166	0.1961	6.5000e-004	0.0724	5.2000e-004	0.0729	0.0192	4.8000e-004	0.0197	0.0000	58.6092	58.6092	1.3800e-003	0.0000	58.6438
Total	**0.0249**	**0.0394**	**0.2037**	**7.5000e-004**	**0.0749**	**5.6000e-004**	**0.0754**	**0.0199**	**5.2000e-004**	**0.0204**	**0.0000**	**68.8136**	**68.8136**	**2.0900e-003**	**0.0000**	**68.8659**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7800e-003	0.0000	4.7800e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.0540	0.6815	1.0900e-003		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	95.2766	95.2766	0.0207	0.0000	95.7943
Total	**0.0125**	**0.0540**	**0.6815**	**1.0900e-003**	**4.7800e-003**	**1.6600e-003**	**6.4400e-003**	**7.2000e-004**	**1.6600e-003**	**2.3800e-003**	**0.0000**	**95.2766**	**95.2766**	**0.0207**	**0.0000**	**95.7943**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9000e-004	0.0227	7.5700e-003	1.0000e-004	2.4700e-003	4.0000e-005	2.5100e-003	6.8000e-004	4.0000e-005	7.2000e-004	0.0000	10.2045	10.2045	7.1000e-004	0.0000	10.2222

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0243	0.0166	0.1961	6.5000e-004	0.0724	5.2000e-004	0.0729	0.0192	4.8000e-004	0.0197	0.0000	58.6092	58.6092	1.3800e-003	0.0000	58.6438
Total	**0.0249**	**0.0394**	**0.2037**	**7.5000e-004**	**0.0749**	**5.6000e-004**	**0.0754**	**0.0199**	**5.2000e-004**	**0.0204**	**0.0000**	**68.8136**	**68.8136**	**2.0900e-003**	**0.0000**	**68.8659**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1511	0.0000	0.1511	0.0822	0.0000	0.0822	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0302	0.3296	0.1740	4.5000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	39.7288	39.7288	0.0129	0.0000	40.0500
Total	**0.0302**	**0.3296**	**0.1740**	**4.5000e-004**	**0.1511**	**0.0136**	**0.1647**	**0.0822**	**0.0125**	**0.0946**	**0.0000**	**39.7288**	**39.7288**	**0.0129**	**0.0000**	**40.0500**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0182	0.0125	0.1471	4.9000e-004	0.0543	3.9000e-004	0.0547	0.0144	3.6000e-004	0.0148	0.0000	43.9569	43.9569	1.0400e-003	0.0000	43.9828
Total	**0.0182**	**0.0125**	**0.1471**	**4.9000e-004**	**0.0543**	**3.9000e-004**	**0.0547**	**0.0144**	**3.6000e-004**	**0.0148**	**0.0000**	**43.9569**	**43.9569**	**1.0400e-003**	**0.0000**	**43.9828**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0589	0.0000	0.0589	0.0320	0.0000	0.0320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5400e-003	0.0240	0.2265	4.5000e-004		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	39.7287	39.7287	0.0129	0.0000	40.0499
Total	**5.5400e-003**	**0.0240**	**0.2265**	**4.5000e-004**	**0.0589**	**7.4000e-004**	**0.0597**	**0.0320**	**7.4000e-004**	**0.0328**	**0.0000**	**39.7287**	**39.7287**	**0.0129**	**0.0000**	**40.0499**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0182	0.0125	0.1471	4.9000e-004	0.0543	3.9000e-004	0.0547	0.0144	3.6000e-004	0.0148	0.0000	43.9569	43.9569	1.0400e-003	0.0000	43.9828
Total	**0.0182**	**0.0125**	**0.1471**	**4.9000e-004**	**0.0543**	**3.9000e-004**	**0.0547**	**0.0144**	**3.6000e-004**	**0.0148**	**0.0000**	**43.9569**	**43.9569**	**1.0400e-003**	**0.0000**	**43.9828**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Off-Road	0.0417	0.3647	0.3954	7.0000e-004		0.0169	0.0169		0.0161	0.0161	0.0000	59.5961	59.5961	0.0114	0.0000	59.8809
Total	**0.0417**	**0.3647**	**0.3954**	**7.0000e-004**		**0.0169**	**0.0169**		**0.0161**	**0.0161**	**0.0000**	**59.5961**	**59.5961**	**0.0114**	**0.0000**	**59.8809**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5500e-003	0.0881	0.0265	3.0000e-004	8.0200e-003	1.0000e-004	8.1200e-003	2.3100e-003	1.0000e-004	2.4100e-003	0.0000	29.6671	29.6671	1.6900e-003	0.0000	29.7094
Worker	0.0292	0.0200	0.2362	7.8000e-004	0.0872	6.2000e-004	0.0878	0.0232	5.7000e-004	0.0237	0.0000	70.5974	70.5974	1.6700e-003	0.0000	70.6391
Total	**0.0318**	**0.1081**	**0.2628**	**1.0800e-003**	**0.0952**	**7.2000e-004**	**0.0960**	**0.0255**	**6.7000e-004**	**0.0262**	**0.0000**	**100.2645**	**100.2645**	**3.3600e-003**	**0.0000**	**100.3485**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4900e-003	0.0692	0.4289	7.0000e-004		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	59.5960	59.5960	0.0114	0.0000	59.8809
Total	**8.4900e-003**	**0.0692**	**0.4289**	**7.0000e-004**		**1.0200e-003**	**1.0200e-003**		**1.0200e-003**	**1.0200e-003**	**0.0000**	**59.5960**	**59.5960**	**0.0114**	**0.0000**	**59.8809**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5500e-003	0.0881	0.0265	3.0000e-004	8.0200e-003	1.0000e-004	8.1200e-003	2.3100e-003	1.0000e-004	2.4100e-003	0.0000	29.6671	29.6671	1.6900e-003	0.0000	29.7094
Worker	0.0292	0.0200	0.2362	7.8000e-004	0.0872	6.2000e-004	0.0878	0.0232	5.7000e-004	0.0237	0.0000	70.5974	70.5974	1.6700e-003	0.0000	70.6391
Total	**0.0318**	**0.1081**	**0.2628**	**1.0800e-003**	**0.0952**	**7.2000e-004**	**0.0960**	**0.0255**	**6.7000e-004**	**0.0262**	**0.0000**	**100.2645**	**100.2645**	**3.3600e-003**	**0.0000**	**100.3485**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0809	0.7089	0.8156	1.4500e-003		0.0308	0.0308		0.0294	0.0294	0.0000	123.7037	123.7037	0.0234	0.0000	124.2881
Total	**0.0809**	**0.7089**	**0.8156**	**1.4500e-003**		**0.0308**	**0.0308**		**0.0294**	**0.0294**	**0.0000**	**123.7037**	**123.7037**	**0.0234**	**0.0000**	**124.2881**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1700e-003	0.1824	0.0535	6.3000e-004	0.0166	2.1000e-004	0.0169	4.8000e-003	2.0000e-004	5.0000e-003	0.0000	61.3524	61.3524	3.4600e-003	0.0000	61.4390
Worker	0.0575	0.0379	0.4572	1.5700e-003	0.1810	1.2700e-003	0.1823	0.0481	1.1700e-003	0.0493	0.0000	141.6830	141.6830	3.1700e-003	0.0000	141.7621
Total	**0.0626**	**0.2203**	**0.5106**	**2.2000e-003**	**0.1977**	**1.4800e-003**	**0.1992**	**0.0529**	**1.3700e-003**	**0.0543**	**0.0000**	**203.0353**	**203.0353**	**6.6300e-003**	**0.0000**	**203.2011**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0176	0.1436	0.8902	1.4500e-003		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	123.7035	123.7035	0.0234	0.0000	124.2880
Total	**0.0176**	**0.1436**	**0.8902**	**1.4500e-003**		**2.1100e-003**	**2.1100e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**123.7035**	**123.7035**	**0.0234**	**0.0000**	**124.2880**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1700e-003	0.1824	0.0535	6.3000e-004	0.0166	2.1000e-004	0.0169	4.8000e-003	2.0000e-004	5.0000e-003	0.0000	61.3524	61.3524	3.4600e-003	0.0000	61.4390
Worker	0.0575	0.0379	0.4572	1.5700e-003	0.1810	1.2700e-003	0.1823	0.0481	1.1700e-003	0.0493	0.0000	141.6830	141.6830	3.1700e-003	0.0000	141.7621
Total	**0.0626**	**0.2203**	**0.5106**	**2.2000e-003**	**0.1977**	**1.4800e-003**	**0.1992**	**0.0529**	**1.3700e-003**	**0.0543**	**0.0000**	**203.0353**	**203.0353**	**6.6300e-003**	**0.0000**	**203.2011**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1900e-003	0.0514	0.0747	1.2000e-004		2.5500e-003	2.5500e-003		2.3500e-003	2.3500e-003	0.0000	10.1347	10.1347	3.2800e-003	0.0000	10.2167
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.1900e-003**	**0.0514**	**0.0747**	**1.2000e-004**		**2.5500e-003**	**2.5500e-003**		**2.3500e-003**	**2.3500e-003**	**0.0000**	**10.1347**	**10.1347**	**3.2800e-003**	**0.0000**	**10.2167**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0110	7.2400e-003	0.0873	3.0000e-004	0.0346	2.4000e-004	0.0348	9.1800e-003	2.2000e-004	9.4000e-003	0.0000	27.0486	27.0486	6.0000e-004	0.0000	27.0637
Total	**0.0110**	**7.2400e-003**	**0.0873**	**3.0000e-004**	**0.0346**	**2.4000e-004**	**0.0348**	**9.1800e-003**	**2.2000e-004**	**9.4000e-003**	**0.0000**	**27.0486**	**27.0486**	**6.0000e-004**	**0.0000**	**27.0637**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4200e-003	6.1400e-003	0.0874	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.1347	10.1347	3.2800e-003	0.0000	10.2166
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4200e-003**	**6.1400e-003**	**0.0874**	**1.2000e-004**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**10.1347**	**10.1347**	**3.2800e-003**	**0.0000**	**10.2166**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0110	7.2400e-003	0.0873	3.0000e-004	0.0346	2.4000e-004	0.0348	9.1800e-003	2.2000e-004	9.4000e-003	0.0000	27.0486	27.0486	6.0000e-004	0.0000	27.0637
Total	**0.0110**	**7.2400e-003**	**0.0873**	**3.0000e-004**	**0.0346**	**2.4000e-004**	**0.0348**	**9.1800e-003**	**2.2000e-004**	**9.4000e-003**	**0.0000**	**27.0486**	**27.0486**	**6.0000e-004**	**0.0000**	**27.0637**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8000e-003	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694
Total	**0.6759**	**0.0256**	**0.0380**	**6.0000e-005**		**1.2800e-003**	**1.2800e-003**		**1.2800e-003**	**1.2800e-003**	**0.0000**	**5.3618**	**5.3618**	**3.0000e-004**	**0.0000**	**5.3694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0110	7.2400e-003	0.0873	3.0000e-004	0.0346	2.4000e-004	0.0348	9.1800e-003	2.2000e-004	9.4000e-003	0.0000	27.0486	27.0486	6.0000e-004	0.0000	27.0637
Total	**0.0110**	**7.2400e-003**	**0.0873**	**3.0000e-004**	**0.0346**	**2.4000e-004**	**0.0348**	**9.1800e-003**	**2.2000e-004**	**9.4000e-003**	**0.0000**	**27.0486**	**27.0486**	**6.0000e-004**	**0.0000**	**27.0637**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	6.2000e-004	2.7000e-003	0.0385	6.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694
Total	**0.6727**	**2.7000e-003**	**0.0385**	**6.0000e-005**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**5.3618**	**5.3618**	**3.0000e-004**	**0.0000**	**5.3694**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0110	7.2400e-003	0.0873	3.0000e-004	0.0346	2.4000e-004	0.0348	9.1800e-003	2.2000e-004	9.4000e-003	0.0000	27.0486	27.0486	6.0000e-004	0.0000	27.0637
Total	**0.0110**	**7.2400e-003**	**0.0873**	**3.0000e-004**	**0.0346**	**2.4000e-004**	**0.0348**	**9.1800e-003**	**2.2000e-004**	**9.4000e-003**	**0.0000**	**27.0486**	**27.0486**	**6.0000e-004**	**0.0000**	**27.0637**

LAUSD Jefferson HS - Phase 5

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	2,000.00	Student	18.90	265,321.96	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2027
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project specific information

Construction Phase - Project specific information

Off-road Equipment -

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Off-road Equipment - Project specific information

Trips and VMT - Project specific information

Grading - Google Earth estimate for Phase 5

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 equipment

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.68	2.75
tblEnergyUse	T24E	1.89	1.98
tblEnergyUse	T24NG	10.81	10.87
tblGrading	AcresOfGrading	11.25	4.95

tblLandUse	LotAcreage	6.09	18.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00

tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	417.00
tblTripsAndVMT	WorkerTripNumber	13.00	150.00
tblTripsAndVMT	WorkerTripNumber	10.00	150.00
tblTripsAndVMT	WorkerTripNumber	61.00	150.00
tblTripsAndVMT	WorkerTripNumber	5.00	150.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.0860	0.5529	0.7737	2.0700e-003	0.2011	0.0217	0.2228	0.0703	0.0203	0.0906	0.0000	186.5628	186.5628	0.0242	0.0000	187.1684
Maximum	**0.0860**	**0.5529**	**0.7737**	**2.0700e-003**	**0.2011**	**0.0217**	**0.2228**	**0.0703**	**0.0203**	**0.0906**	**0.0000**	**186.5628**	**186.5628**	**0.0242**	**0.0000**	**187.1684**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

2025	0.0451	0.1256	0.8534	2.0700e-003	0.1472	2.3100e-003	0.1495	0.0457	2.2400e-003	0.0480	0.0000	186.5627	186.5627	0.0242	0.0000	187.1683
Maximum	**0.0451**	**0.1256**	**0.8534**	**2.0700e-003**	**0.1472**	**2.3100e-003**	**0.1495**	**0.0457**	**2.2400e-003**	**0.0480**	**0.0000**	**186.5627**	**186.5627**	**0.0242**	**0.0000**	**187.1683**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**47.58**	**77.28**	**-10.31**	**0.00**	**26.77**	**89.36**	**32.87**	**34.91**	**88.95**	**47.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2025**	**3-31-2025**	0.4602	0.1057
2	**4-1-2025**	**6-30-2025**	0.1784	0.0647
		Highest	0.4602	0.1057

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2025	3/11/2025	5	50	
2	Grading	Grading	3/12/2025	4/22/2025	5	30	
3	Building Construction	Building Construction	4/23/2025	6/3/2025	5	30	
4	Paving	Paving	6/3/2025	6/30/2025	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4.95

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73

Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	1	6.00	158	0.38
Demolition	Other Construction Equipment	1	6.00	172	0.42
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Excavators	0	0.00	158	0.38
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	6.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	150.00	0.00	417.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	2	150.00	24.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	150.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0179	0.0000	0.0179	2.7000e-003	0.0000	2.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0340	0.2909	0.3416	6.2000e-004		0.0131	0.0131		0.0123	0.0123	0.0000	54.1439	54.1439	0.0117	0.0000	54.4353
Total	**0.0340**	**0.2909**	**0.3416**	**6.2000e-004**	**0.0179**	**0.0131**	**0.0309**	**2.7000e-003**	**0.0123**	**0.0150**	**0.0000**	**54.1439**	**54.1439**	**0.0117**	**0.0000**	**54.4353**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-003	0.0323	0.0112	1.5000e-004	3.5800e-003	6.0000e-005	3.6400e-003	9.8000e-004	6.0000e-005	1.0400e-003	0.0000	14.6868	14.6868	1.0300e-003	0.0000	14.7124
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	7.8800e-003	0.0965	3.4000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112	0.0000	30.9332	30.9332	6.6000e-004	0.0000	30.9496
Total	**0.0134**	**0.0402**	**0.1077**	**4.9000e-004**	**0.0447**	**3.4000e-004**	**0.0451**	**0.0119**	**3.2000e-004**	**0.0122**	**0.0000**	**45.6200**	**45.6200**	**1.6900e-003**	**0.0000**	**45.6620**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Fugitive Dust					6.9600e-003	0.0000	6.9600e-003	1.0500e-003	0.0000	1.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0700e-003	0.0307	0.3872	6.2000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	54.1439	54.1439	0.0117	0.0000	54.4353
Total	**7.0700e-003**	**0.0307**	**0.3872**	**6.2000e-004**	**6.9600e-003**	**9.4000e-004**	**7.9000e-003**	**1.0500e-003**	**9.4000e-004**	**1.9900e-003**	**0.0000**	**54.1439**	**54.1439**	**0.0117**	**0.0000**	**54.4353**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-003	0.0323	0.0112	1.5000e-004	3.5800e-003	6.0000e-005	3.6400e-003	9.8000e-004	6.0000e-005	1.0400e-003	0.0000	14.6868	14.6868	1.0300e-003	0.0000	14.7124
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0124	7.8800e-003	0.0965	3.4000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112	0.0000	30.9332	30.9332	6.6000e-004	0.0000	30.9496
Total	**0.0134**	**0.0402**	**0.1077**	**4.9000e-004**	**0.0447**	**3.4000e-004**	**0.0451**	**0.0119**	**3.2000e-004**	**0.0122**	**0.0000**	**45.6200**	**45.6200**	**1.6900e-003**	**0.0000**	**45.6620**

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0704	0.0000	0.0704	0.0375	0.0000	0.0375	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1435	0.1018	2.4000e-004		5.7300e-003	5.7300e-003		5.2700e-003	5.2700e-003	0.0000	21.1395	21.1395	6.8400e-003	0.0000	21.3104

Total	**0.0138**	**0.1435**	**0.1018**	**2.4000e-004**	**0.0704**	**5.7300e-003**	**0.0761**	**0.0375**	**5.2700e-003**	**0.0428**	**0.0000**	**21.1395**	**21.1395**	**6.8400e-003**	**0.0000**	**21.3104**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4500e-003	4.7300e-003	0.0579	2.1000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.6000e-004	6.7100e-003	0.0000	18.5599	18.5599	3.9000e-004	0.0000	18.5698
Total	**7.4500e-003**	**4.7300e-003**	**0.0579**	**2.1000e-004**	**0.0247**	**1.7000e-004**	**0.0249**	**6.5600e-003**	**1.6000e-004**	**6.7100e-003**	**0.0000**	**18.5599**	**18.5599**	**3.9000e-004**	**0.0000**	**18.5698**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0275	0.0000	0.0275	0.0146	0.0000	0.0146	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9400e-003	0.0128	0.1293	2.4000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	21.1394	21.1394	6.8400e-003	0.0000	21.3104
Total	**2.9400e-003**	**0.0128**	**0.1293**	**2.4000e-004**	**0.0275**	**3.9000e-004**	**0.0278**	**0.0146**	**3.9000e-004**	**0.0150**	**0.0000**	**21.1394**	**21.1394**	**6.8400e-003**	**0.0000**	**21.3104**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4500e-003	4.7300e-003	0.0579	2.1000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.6000e-004	6.7100e-003	0.0000	18.5599	18.5599	3.9000e-004	0.0000	18.5698
Total	**7.4500e-003**	**4.7300e-003**	**0.0579**	**2.1000e-004**	**0.0247**	**1.7000e-004**	**0.0249**	**6.5600e-003**	**1.6000e-004**	**6.7100e-003**	**0.0000**	**18.5599**	**18.5599**	**3.9000e-004**	**0.0000**	**18.5698**

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9600e-003	0.0184	0.0255	3.0000e-005		9.9000e-004	9.9000e-004		9.1000e-004	9.1000e-004	0.0000	3.0216	3.0216	9.8000e-004	0.0000	3.0460
Total	**1.9600e-003**	**0.0184**	**0.0255**	**3.0000e-005**		**9.9000e-004**	**9.9000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**3.0216**	**3.0216**	**9.8000e-004**	**0.0000**	**3.0460**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0247	7.1100e-003	9.0000e-005	2.2700e-003	3.0000e-005	2.3000e-003	6.5000e-004	3.0000e-005	6.8000e-004	0.0000	8.3203	8.3203	4.7000e-004	0.0000	8.3319
Worker	7.4500e-003	4.7300e-003	0.0579	2.1000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.6000e-004	6.7100e-003	0.0000	18.5599	18.5599	3.9000e-004	0.0000	18.5698
Total	**8.1400e-003**	**0.0294**	**0.0650**	**3.0000e-004**	**0.0270**	**2.0000e-004**	**0.0272**	**7.2100e-003**	**1.9000e-004**	**7.3900e-003**	**0.0000**	**26.8802**	**26.8802**	**8.6000e-004**	**0.0000**	**26.9017**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2000e-004	1.8400e-003	0.0261	3.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.0216	3.0216	9.8000e-004	0.0000	3.0460
Total	**4.2000e-004**	**1.8400e-003**	**0.0261**	**3.0000e-005**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**3.0216**	**3.0216**	**9.8000e-004**	**0.0000**	**3.0460**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0247	7.1100e-003	9.0000e-005	2.2700e-003	3.0000e-005	2.3000e-003	6.5000e-004	3.0000e-005	6.8000e-004	0.0000	8.3203	8.3203	4.7000e-004	0.0000	8.3319
Worker	7.4500e-003	4.7300e-003	0.0579	2.1000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.6000e-004	6.7100e-003	0.0000	18.5599	18.5599	3.9000e-004	0.0000	18.5698
Total	**8.1400e-003**	**0.0294**	**0.0650**	**3.0000e-004**	**0.0270**	**2.0000e-004**	**0.0272**	**7.2100e-003**	**1.9000e-004**	**7.3900e-003**	**0.0000**	**26.8802**	**26.8802**	**8.6000e-004**	**0.0000**	**26.9017**

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3300e-003	0.0227	0.0356	5.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	4.8243	4.8243	1.5600e-003	0.0000	4.8633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.3300e-003**	**0.0227**	**0.0356**	**5.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.0100e-003**	**1.0100e-003**	**0.0000**	**4.8243**	**4.8243**	**1.5600e-003**	**0.0000**	**4.8633**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9700e-003	3.1500e-003	0.0386	1.4000e-004	0.0165	1.1000e-004	0.0166	4.3700e-003	1.0000e-004	4.4800e-003	0.0000	12.3733	12.3733	2.6000e-004	0.0000	12.3799
Total	**4.9700e-003**	**3.1500e-003**	**0.0386**	**1.4000e-004**	**0.0165**	**1.1000e-004**	**0.0166**	**4.3700e-003**	**1.0000e-004**	**4.4800e-003**	**0.0000**	**12.3733**	**12.3733**	**2.6000e-004**	**0.0000**	**12.3799**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7000e-004	2.9200e-003	0.0416	5.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	4.8243	4.8243	1.5600e-003	0.0000	4.8633
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7000e-004**	**2.9200e-003**	**0.0416**	**5.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**4.8243**	**4.8243**	**1.5600e-003**	**0.0000**	**4.8633**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9700e-003	3.1500e-003	0.0386	1.4000e-004	0.0165	1.1000e-004	0.0166	4.3700e-003	1.0000e-004	4.4800e-003	0.0000	12.3733	12.3733	2.6000e-004	0.0000	12.3799
Total	**4.9700e-003**	**3.1500e-003**	**0.0386**	**1.4000e-004**	**0.0165**	**1.1000e-004**	**0.0166**	**4.3700e-003**	**1.0000e-004**	**4.4800e-003**	**0.0000**	**12.3733**	**12.3733**	**2.6000e-004**	**0.0000**	**12.3799**

Air Quality and Greenhouse Gas Analysis
Offsite Vehicle Travel Emissions - Maximum Daily in South Coast Air Basin (SoCAB)

Vehicle Travel Distances and One-Way Trips

Import/Export Location	Vehicle Class	One-Way Trip Distance (miles) [b,c,e]		Number of One-Way Trips [d]	
Activity		**SCAB**	**SJVAB**	**Daily Trips**	**Annual Trips**
Disposal (Export)					
Clean Harbors Buttonwillow (CA)	Haul Truck (T7, Single Construction)	74	70	25	125
Within 1/4 mile of Site	Haul Truck (T7, Single Construction)	0.5			
(Import)	Haul Truck (T7, Single Construction)	30	-	25	125

Notes:
a. CARB EMFAC2014 Emission Factor Estimates
b. Distance based on roadway travel distance from the approximate center of the Investigation Area to the respective air basin border.
c SCAB = South Coast Air Basin; SJVAB = San Joaquin Valley Air Basin;
d. Assuming 50 Trucks per day (25 for export, 25 for import)
e. Truck emissions within 1/4 mile of site, 0.5 used fo roundtrips.

Vehicle Emission Factors

Model Year	Vehicle Class	Criteria Pollutant Emission Factors (grams/mile) [a]								GHG Emission Factors (grams/mile) [a]
					PM10		PM2.5			GWP=1
EMFAC2014 (Analysis Year: 2018)		**VOC**	**CO**	**NOX**	**Exhaust**	**BW/TW/RD**	**Exhaust**	**BW/TW/RD [b]**	**SOX**	**CO2**
Fleet Average	Haul Truck (T7, Single Construction)	0.1299	0.5056	5.2197	0.0374	0.3976	0.0358	0.1091	0.0156	1,635.85

Notes:
a. Emissions factors from EMFAC2014 run in the "Emissions" mode, Analysis Year 2018, SCAB
b. BW = Brake Wear; TW = Tire Wear; RD = Road Dust

SOUTH COAST AIR BASIN

Vehicle Emissions - Design Day (Heavy-Duty Trucks (T7, Single Construction)

Import/Export Location	Vehicle Class	Criteria Pollutant Emissions (POUNDS/DAY)								GHG Emission Factors (MT/YEAR)
					PM10		PM2.5			GWP=1
Activity		VOC	CO	NOX	Exhaust	BW/TW/RD	Exhaust	BW/TW/RD	SOX	CO2
Disposal (Export)										
Clean Harbors Buttonwillow (CA)	Fleet Average	0.5297	2.0621	21.2886	0.1526	1.6216	0.1460	0.4448	0.0637	15.1316
		-	-	-	-	-	-	-	-	-
Landscaping (Import)	Fleet Average	0.21	0.84	8.63	0.06	0.66	0.06	0.18	0.03	6.13
TOTAL		**0.74**	**2.90**	**29.92**	**0.21**	**2.28**	**0.21**	**0.63**	**0.09**	**21.27**

SAN JOAQUIN VALLEY AIR BASIN

Vehicle Emissions - Annual (Heavy-Duty Trucks = T7, Single Construction

Import/Export Location	Vehicle Class	Criteria Pollutant Emissions (TONS/YEAR)								GHG Emission Factors (MT/YEAR)
						PM10		PM2.5		GWP=1
Activity		VOC	CO	NOX	SOX	Exhaust	BW/TW/RD	Exhaust	BW/TW/RD	CO2
Disposal (Export)										
Clean Harbors Buttonwillow (CA)	Fleet Avereage	1.25E-03	4.88E-03	5.03E-02	3.61E-04	3.83E-03	3.45E-04	1.05E-03	1.51E-04	14.31
		-	-	-	-	-	-	-	-	-
TOTAL		**0.00**	**0.01**	**0.06**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**14.31**

	San Joaquin Valley APCD Criteria Pollutant Thresholds					
	ROG	NOX	CO	SOX	PM10	PM2.5
SJVAPCD Significance Thresholds (Tons/yr)	10	10	100	27	15	15
Export Total	1.84E-03	5.03E-02	4.88E-03	3.61E-04	4.18E-03	1.20E-03
Exceeds Thresholds?	No	No	No	No	No	No

Appendix B
Biological Resources Data

ESA

B-1 Protected Tree Report

ARBORIST PROTECTED TREE REPORT

Carlberg ASSOCIATES
Horticulturists and Registered Consulting ARBORISTS

CITY OF LOS ANGELES PROTECTED TREE REPORT
THOMAS JEFFERSON HIGH SCHOOL
1319 EAST 41ST STREET
LOS ANGELES, CALIFORNIA 90011

SUBMITTED TO:

ANDREW THOMPSON
PRINCIPAL IN CHARGE
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3546 CONCOURS STREET
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MARCH 16, 2017

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Carlberg ASSOCIATES
Horticulturists and Registered Consulting ARBORISTS

March 16, 2017

Andrew Thompson
Principal in Charge
HMC Architects
3546 Concours Street
Ontario, California 91764

Re: Thomas Jefferson High School, 1319 E. 41st Street, Los Angeles, California 90011
City of Los Angeles Protected Tree Report

Dear Mr. Thompson,

EXECUTIVE SUMMARY

This tree report was prepared in accordance with the City of Los Angeles Tree Preservation Ordinance No. 177.404 (Chapter IV, Article 6 of the Los Angeles Municipal Code). Of the 139 inventoried trees, **five are native species considered protected by the ordinance and 134 trees meet the City's criteria for 'significant trees'.** Seven City of Los Angeles rights-of-way trees are associated with this project. Three off-site trees are located on the neighboring properties to the north that can be affected by the construction of the proposed project. There are two site plan options for the modernization of the campus. Each option was analyzed separately and dispositions resulting from each option is discussed herein. General tree protection recommendations and mitigation measures are made for trees to remain in the area of potential impact.

BACKGROUND AND ASSIGNMENT

The Los Angeles Unified School District is proposing renovations on the approximate 18.15-acre lot. The 139 total trees are scattered within and surrounding the property limits. We were retained to visit the property, inventory all trees, evaluate the potential impacts of construction, make recommendations for the protection of trees to remain, and prepare a Protected Tree Report for submittal to Los Angeles Unified School District. We used both the Design Option 1 and Design Option 2 Plans to determine the impacts of each option to the inventoried trees. This report is based on our site visits of March 1st and 6th, 2017.

This report reflects the impacts resulting from the construction of the proposed improvements related to the Comprehensive Modernization Project.

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METHODOLOGY AND OBSERVATIONS

We inventoried 139 trees of various species on the subject property. Tree trunks and canopies (driplines) were recorded in the field, from grade, using the topography provided to us by the architect. The on-site trees were numbered and tagged with an embossed aluminum numbered tag. The off-site trees were numbered on our exhibits with an 'OS' designation and the right-of-way trees were numbered with an 'ST' designation, but were not tagged. The locations of the on-site, off-site, and right-of-way trees are illustrated on the 'Tree Location Exhibit,' the 'Tree Impact Exhibit – Option 1,' and 'Tree Impact Exhibit – Option 2.'

Table 1 summarizes the inventoried protected trees. **Table 2** summarizes the inventoried significant trees. **Table 3** at the end of the report summarizes the inventoried trees, their protected status, and their proposed dispositions. Captioned photographs and exhibits at the end of this report illustrate site context, tree locations, tree structure, and vigor. A full-sized copy of the 'Tree Location Exhibit,' the 'Tree Impact Exhibit – Option 1,' and 'Tree Impact Exhibit – Option 2' are included in pockets at the end of this report. Both protected and non-protected trees are included in the drawings.

TABLE 1 – SUMMARY OF PROTECTED TREES AND PRELIMINARY IMPACTS

Common Name	Botanical Name	Total Number of Trees	Total to be Removed per Option 1	Total to be Removed per Option 2
Coast live oak	*Quercus agrifolia*	5	2	2
	Totals:	**5**	**2**	**2**

No Southern California black walnuts (*Juglans californica* var. *californica*), western sycamores (*Platanus racemosa*), or California bay laurel trees (*Umbellularia californica*) were observed during our inventory.

TABLE 2 – SUMMARY OF SIGNIFICANT TREES AND PRELIMINARY IMPACTS

Common Name	Botanical Name	Total Number of Trees	Total to be Removed per Option 1	Total to be Removed per Option 2
African Fern Pine	*Afrocarpus falcatus*	2	2	2
Aleppo Pine	*Pinus halepensis*	3	2	2
Avocado	*Persea americana*	1	0	0
Blue Atlas Cedar	*Cedrus atlantica* 'Glauca'	9	0	0
Blue Gum	*Eucalyptus globulus*	1	0	0
Brazilian Pepper	*Schinus terebinthifolius*	1	1	1
Brisbane Box	*Lophostemon confertus*	4	3	3
Cajeput Tree	*Melaleuca quinquenervia*	2	2	2
California Pepper	*Schinus molle*	3	0	0
Callery Pear	*Pyrus calleryana*	7	0	0
Camphor	*Cinnamomum camphora*	4	3	3
Canary Island Pine	*Pinus canariensis*	9	8	8
Chinese Flame Tree	*Koelreuteria bipinnata*	2	2	2
Chinese Hackberry	*Celtis sinensis*	4	3	3
Coastal Redwood	*Sequoia sempervirens*	1	0	0
Coral Tree	*Erythrina caffra*	2	2	2
Crape Myrtle	*Melaleuca quinquenervia*	1	1	1

Common Name	Botanical Name	Total Number of Trees	Total to be Removed per Option 1	Total to be Removed per Option 2
Deodar Cedar	*Cedrus deodara*	1	1	1
Hollywood Juniper	*Juniperus chinensis 'Torulosa'*	2	0	0
Indian Laurel Fig	*Ficus microcarpa*	3	1	2
Jacaranda	*Jacaranda mimosifolia*	19	0	0
Lemon Scented Gum	*Corymbia citriodora*	3	3	3
Liquidambar	*Liquidambar styraciflua*	4	4	4
Mexican Fan Palm	*Washingtonia robusta*	8	6	6
Moreton Bay Fig	*Ficus macrophylla*	2	2	2
Olive	*Olea europaea*	2	1	1
Purple Orchid Tree	*Bauhinia variegata*	1	1	1
Red Ironbark	*Eucalyptus sideroxylon*	3	3	3
Shamel Ash	*Fraxinus uhdei*	16	16	16
Southern Magnolia	*Magnolia grandiflora*	2	2	2
Umbrella Tree	*Schefflera pueckleri*	1	1	1
Weeping Fig	*Ficus benjamina*	11	6	6
	Totals:	**134**	**76**	**77**

DISCUSSION

There are numerous potential consequences related to construction that may affect trees during and after a typical construction process. They are as follows and are discussed below:

- EXCAVATION / TRENCHING - ROOT SEVERANCE
- SOIL COMPACTION (DURING AND POST-CONSTRUCTION)
- ALTERATION OF THE WATER TABLE/SITE DRAINAGE
- SUBSTANTIAL TRIMMING OF CANOPY OR ROOTS
- MECHANICAL DAMAGE
- IRRIGATION

A. *Excavation/Trenching—Root Severance*

Trenching can include excavation for irrigation, utility, or drainage lines. Trenching and excavation can also be required for foundations of structures and free-standing walls. Trenching and excavation removes soil and tree roots. When performed in the critical root zone (approximately 5x the trunk diameter of any tree) or within the dripline (outer edge of the natural canopy), there is the potential to remove large areas of root mass, and to shatter and tear roots that will remain connected to the tree(s). Torn and shattered roots cannot callous over or generate new roots in the manner of cleanly-cut roots. Torn and shattered roots are potentially unstable, are entry points for disease and decay organisms, and eventually die. Significant root loss and/or severance can be critical to the health and structure of trees to remain in a landscape.

B. *Soil Compaction*

Soil compaction is a complex set of physical, chemical, and biological constraints on tree growth. Principal components leading to limited growth are the loss of aeration and pore space, poor gas

exchange with the atmosphere, lack of available water, and mechanical hindrance of root growth. Soil compaction is considered to be the largest single factor responsible for the decline of trees on construction sites.

C. *Changes in Grade*

Changes in grade, by the addition or removal of soil (filling or cutting), can be injurious. Lowering the grade around trees can have immediate and long-term effects on trees. The addition of soil and compaction for common engineering practices also results in long-term effects on trees. Typically, the vast majority of the root mass exists within the top three feet of soil, and most of the fine roots active in water and nutrient absorption are in the top 12 inches.

D. *Alteration of the Water Table/Site Drainage*

The water table is the upper surface of the zone in which soil macropores are saturated with water; water tables may vary seasonally. Rather than a flat, static surface, the water moves down a gradient. Its depth varies, depending on the structure of the soil and rocks through which it flows. A perched water table may form in soils that have impermeable strata. Swamps are created where the water table intersects level ground.

Structures such as footings, basements, subterranean buildings, and retaining walls may intercept impermeable layers in the soil on which water perches. If adequate drainage is not provided, the water table uphill may gradually rise and interfere with tree roots. This type of damage usually takes a period of time to be recognized and diagnosed.[1]

Trees are particularly susceptible to root infections, such as Armillaria and Phytophthora. Both of these fungal diseases can progressively weaken a root system, resulting in dead branches in the canopy of the tree, loss of stability of the entire tree because of decaying roots, and premature death of the tree. Trees form roots in accordance with existing soil composition and water availability. Minor drainage changes in the winter and spring months are significant to the health of the trees.

E. *Canopy And Root Pruning*

Leaves perform vital functions for trees. Through photosynthesis, they manufacture sugars that feed the tree and are used to create the building blocks of wood. Leaves help to move water and nutrients up from the roots and around the tree through their vascular system and cool the tree down through transpiration. They moderate temperatures beneath the tree, lessen the drying action of winds, and intercept rainfall, which reduces erosion. On the ground, they moderate soil temperatures, retain moisture, and as they decompose, return their nutrients back to the soil to be recycled and reused by the tree. A healthy canopy of leaves is essential to ensure an adequate food supply for the roots to perform their important functions.

Typically, root systems extend outward past the dripline, two to four times the diameter of the average tree's crown. Main root functions include water and mineral conduction, food and water storage, and anchorage of the tree to the soil. Root systems consist of short-lived, fine-textured, feeder roots and larger, woody, perennial roots. Feeder roots, while averaging only 1/16 inch in diameter, constitute the major portion of the root system's surface area. Feeder roots act like sponges, growing predominantly outward and upward from the large roots near the soil surface where minerals, water and oxygen are

[1] Nelda Matheny and James R. Clark, Trees and Development: A Technical Guide to Preservation of Trees During Land Development, (Champaign, Illinois: International Society of Arboriculture, 1998), pp. 88-89.

usually abundant. Larger, woody roots and their subordinates tend to annually increase in diameter and grow horizontally. Predominantly located in the top 6 to 24 inches of the soil, these structural and storage roots usually do not grow deeper than three to seven feet. Root growth is generally inhibited by soil compaction and temperature. As the depth increases, soil compaction increases, and the availability of water, minerals, oxygen, and soil temperature all decrease.

Removal of significant amounts of the canopy and/or root system can lead to both immediate and long-term detrimental effects on trees. Effects can be physiological, structural, or both.

F. Protection Against Mechanical Damage/Fencing
Fencing is a temporary enclosure erected around a tree to enclose as much of its safety zone as possible. Fences are critical to (1) prevent direct contact and damage to the canopy, branches, and trunk, (2) preserve roots and soil in an intact and non-compacted state, and (3) identify the Tree Protection Zone. Fencing must be in place before demolition or the initiation of construction, and remain until adjacent construction activity no longer threatens tree health.

G. Irrigation
Trees that have suffered root loss may not be able to exploit as large a soil volume as before injury. Also, changed patterns of drainage may divert water away from trees. In either case, trees may benefit from supplemental irrigation. The following are general guidelines:

- ***The amount of water applied must be appropriate to the species.***
- ***Light, infrequent irrigations should be avoided.***
- ***Excess irrigation from new landscaping should be avoided. Runoff from plantings should be minimized and/or directed away from trees.***
- ***Wetting the trunk should be avoided.***[2]

Construction Impacts

Option 1 - Implementation of Option 1 will result in **removal** of two protected oak trees and 76 non-protected trees of various species. All trees are being proposed for removal due to their proximity to the required site improvements for the project.

Option 2 - Implementation of Option 2 will result in **removal** of two protected oak trees and 77 non-protected trees of various species. All trees are being proposed for removal due to their proximity to the required site improvements for the project.

CONCLUSION AND RECOMMENDATIONS

In my professional opinion, the project can proceed as designed and if the following conditions are met:

- At least eight replacement (mitigation) trees (coast live oaks) should be planted on-site. It appears that there is sufficient space on-site to plant mitigation trees. The mitigation trees should be required on the landscape and irrigation plans and establishment irrigation should be provided for trees planted in the natural areas of the site. The City of Los Angeles' Urban Forestry Division requires 24-inch box trees to be planted on-site. If there is not enough space on-site to plant all the 24-inch box mitigation, then the balance of mitigation trees must be purchased and delivered to the

[2] See Matheny and Clark, p. 125.

local City yard by the applicant. Mitigation trees that are delivered to the City need to be 15-gallon size. The city will make the final determination in the permit as to the final number of trees and the species to be delivered, if necessary.

- Any demolition, digging, excavating, or trenching within the protected zone of any tree to remain is monitored by a qualified arborist.
- Exposed roots to remain should be covered with burlap, carpet remnants or other material that may be kept moist until soil can be replaced.
- This report is part of the set of plans given to the contractor. The contractor should be familiar with the specific instructions and responsibilities pertaining to protected trees. It is recommended that a professional arborist be retained and meet with the contractor and his personnel prior to commencement of the project.
- If canopy pruning is found to be necessary for trees to remain, it should only be performed by a qualified ISA Certified Arborist or ISA Certified Tree Worker.
- Protected trees shall not be removed until/unless approval is granted by the City of Los Angeles' Urban Forestry Division.
- Equipment, materials, and vehicles shall not be stored, parked, or operated within the protected zone of trees to remain.
- Equipment with overhead exhaust shall not be placed in such a manner as to scorch overhanging branches or foliage. Smaller equipment shall be used in such areas as deemed necessary by the monitoring arborist.

Please feel welcome to contact me at our Santa Monica office if you have any immediate questions or concerns.

Respectfully submitted,

Cy Carlberg, Registered Consulting Arborist
Principal, Carlberg Associates

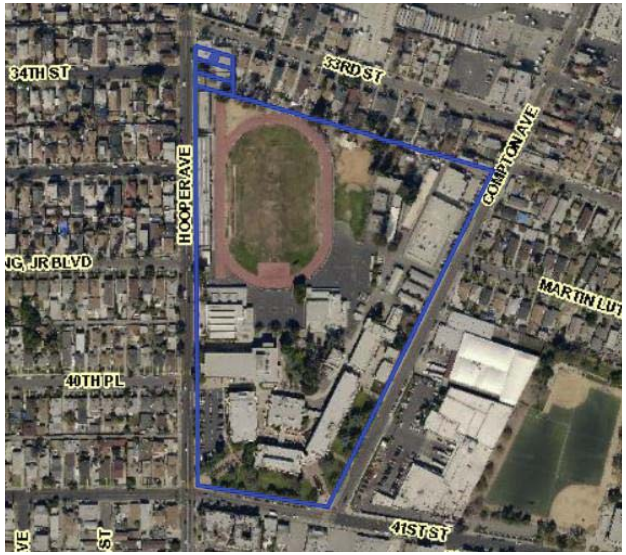


EXHIBIT 1 - AERIAL VIEW OF THE SUBJECT AREA
JEFFERSON HIGH SCHOOL, 1319 E. 41ST STREET, LOS ANGELES, CA
SOURCE: CITY OF LOS ANGELES - ZIMAS

EXHIBIT 2 – REDUCED COPY OF TREE LOCATION EXHIBIT

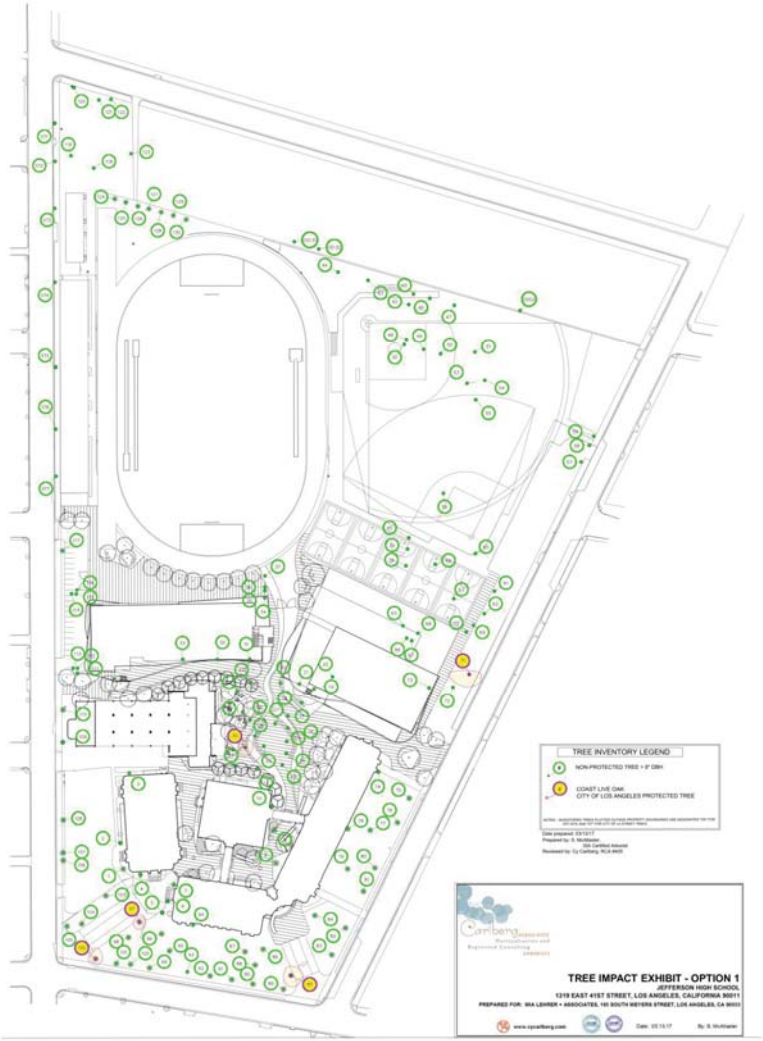


EXHIBIT 3 – REDUCED COPY OF TREE IMPACT EXHIBIT – OPTION 1

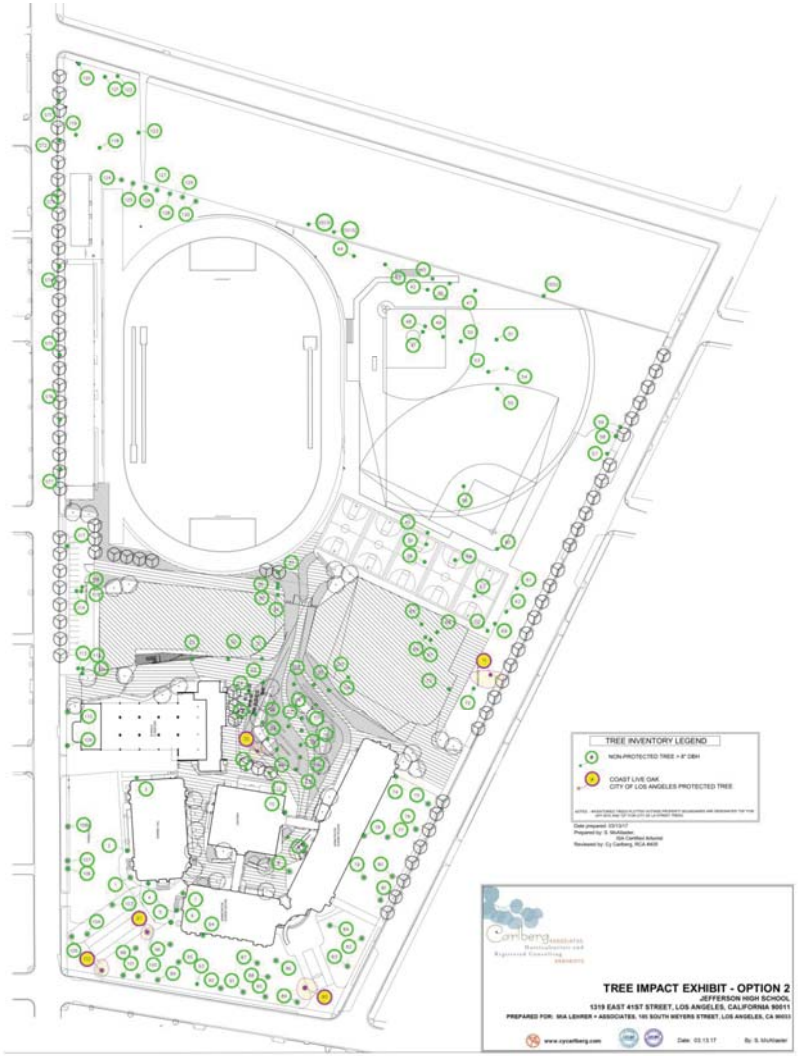


EXHIBIT 4 – REDUCED COPY OF TREE IMPACT EXHIBIT – OPTION 2

TABLE 3 – TREE INVENTORY

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height	Canopy Spread	Health	Structure	Protected	Option 1	Option 2	Comments
1	Mexican Fan Palm	*Washingtonia robusta*	BT 40'	48	14	A	A-	No	Remain	Remain	growing next to sidewalk
2	Mexican Fan Palm	*Washingtonia robusta*	BT 42'	50	14	A	A	No	Remain	Remain	
3	Weeping Fig	*Ficus benjamina*	8	25	20	B	B	No	Remain	Remain	multiple pruning events, pruned away from building, epicormic growth, minor dieback
4	Weeping Fig	*Ficus benjamina*	18.5	40	38	B	A	No	Remain	Remain	wilting leaves, psyllids, multiple pruning events, epicormic growth, minor dieback, pruned away from building
5	Weeping Fig	*Ficus benjamina*	16	40	38	B	A-	No	Remain	Remain	shaded out, minor dieback, multiple pruning events, epicormic
6	Weeping Fig	*Ficus benjamina*	16	40	36	B	A	No	Remain	Remain	multiple pruning events, epicormic growth, minor dieback
7	Weeping Fig	*Ficus benjamina*	18.5	40	32	B	B+	No	Remain	Remain	slight lean west, minor dieback, pruned away from building, multiple pruning events, psyllids
8	Olive	*Olea europaea*	6, 7.5	20	25	B	B	No	Remain	Remain	root pruning, damage all around, minor dieback, in planter, mechanical damage to trunk
9	Olive	*Olea europaea*	20	30	20	C	C	No	Remove	Remove	topped, cavities, fruiting bodies around base, mechanical damage, moderate dieback, epicormic
10	Umbrella Tree	*Schefflera pueckleri*	12	15	20	A	A	No	Remove	Remove	asphalt uplift
11	Coral Tree	*Erythrina caffra*	12, 13	15	30	B-	B	No	Remove	Remove	in planter, multiple pruning events, moderate dieback, mechanical damage, epicormic
12	Coral Tree	*Erythrina caffra*	11, 11.5	15	30	D	B	No	Remove	Remove	no foliage, no obvious buds, multiple pruning events

13	Moreton Bay Fig	*Ficus macrophylla*	31.5	40	42	B	B	No	Remove	Remove	cavity with foam, epicormic growth, sidewalk uplift, multiple pruning events, in small growing space
14	Moreton Bay Fig	*Ficus macrophylla*	20.5	35	30	B	B	No	Remove	Remove	epicormic growth, small growing space, multiple pruning events, sidewalk uplift
15	Lemon Scented Gum	*Corymbia citriodora*	31	60	55	A	B	No	Remove	Remove	in planter, slight lean south, one sided, shaded out
16	Lemon Scented Gum	*Corymbia citriodora*	30.5	60	60	A	A-	No	Remove	Remove	in planter, old cuts
17	Lemon Scented Gum	*Corymbia citriodora*	19	40	24	C	C	No	Remove	Remove	topped, decay, bleeding
18	Brazilian Pepper	*Schinus terebinthifolius*	16	25	33	A	C+	No	Remove	Remove	2 tears, leans east, multiple pruning events
19	Aleppo Pine	*Pinus halepensis*	25.5	50	42	B	C-	No	Remove	Remove	small planter, poor pruning, remove, multiple pruning events, root pruning with decay, girdling root, lean east
20	Red Ironbark	*Eucalyptus sideroxylon*	36.5	50	50	B	C	No	Remove	Remove	epicormic growth, hob, small space, asphalt uplift, root decay
21	Cajeput Tree	*Melaleuca quinquenervia*	12.5	25	15	A	A-	No	Remove	Remove	small cavity at base, mechanical damage
22	Shamel Ash	*Fraxinus uhdei*	20	40	33	B	B	No	Remove	Remove	slight lean south, multiple pruning events, old cut with decay, minor dieback
23	Shamel Ash	*Fraxinus uhdei*	24	45	33	B-	B-	No	Remove	Remove	moderate dieback, epicormic, multiple pruning events
24	Shamel Ash	*Fraxinus uhdei*	29	45	50	B+	B-	No	Remove	Remove	multiple pruning events, girdling root, epicormic
25	Liquidambar	*Liquidambar styraciflua*	12.5	40	24	B-	B-	No	Remove	Remove	leafing out, multiple pruning events, old cuts with decay
26	Liquidambar	*Liquidambar styraciflua*	15.5	40	30	B-	B-	No	Remove	Remove	leafing out, multiple pruning events, old cuts with decay, old tear
27	Liquidambar	*Liquidambar styraciflua*	9	30	20	F	F	No	Remove	Remove	dead
28	Liquidambar	*Liquidambar styraciflua*	15	40	30	C+	B-	No	Remove	Remove	leafing out, multiple pruning events, old cuts with decay

29	Deodar Cedar	*Cedrus deodara*	11.5	35	27	B+	B+	No	Remove	Remove	minor dieback, multiple pruning events, stub cuts
30	Coast Live Oak	*Quercus agrifolia*	8	20	12/12/14/12	A	B	Yes	Remove	Remove	unbalanced to south, interior pruning with epicormic growth
31	Red Ironbark	*Eucalyptus sideroxylon*	22	45	36	B	B-	No	Remove	Remove	epicormic growth, moderate dieback, mechanical damage, large wound on trunk on N, multiple pruning events
32	Shamel Ash	*Fraxinus uhdei*	22	30	30	B	C	No	Remove	Remove	epicormic growth, moderate dieback, root pruning all around, root decay, multiple pruning events
33	Shamel Ash	*Fraxinus uhdei*	17	30	33	B-	B-	No	Remove	Remove	root pruning all around, moderate dieback, dead branch
34	Weeping Fig	*Ficus benjamina*	17	35	35	B	B	No	Remove	Remove	moderate dieback, pruned away from building, multiple pruning events, trunks fused together
35	Weeping Fig	*Ficus benjamina*	14.5	35	35	B	B	No	Remove	Remove	pruned away from building, multiple pruning events, moderate dieback
36	Weeping Fig	*Ficus benjamina*	17.5	35	35	B	B	No	Remove	Remove	pruned away from building, multiple pruning events, moderate dieback
37	Weeping Fig	*Ficus benjamina*	19.5	35	55	C+	B	No	Remove	Remove	pruned away from building, multiple pruning events, moderate dieback
38	Camphor	*Cinnamomum camphora*	9.5	20	25	B	A	No	Remove	Remove	minor interior dieback
39	Camphor	*Cinnamomum camphora*	9.5	20	23	B-	A	No	Remove	Remove	drought stress, moderate dieback
40	Camphor	*Cinnamomum camphora*	10	20	20	B-	A	No	Remove	Remove	drought stress, moderate dieback, mechanical damage
41	Canary Island Pine	*Pinus canariensis*	24	55	20	A	A	No	Remove	Remove	
42	Canary Island Pine	*Pinus canariensis*	18.5	45	20	A	A	No	Remove	Remove	
43	Shamel Ash	*Fraxinus uhdei*	36.5	40	20	D	D	No	Remove	Remove	fungus, REMOVE, in decline, epicormic only, mechanical damage
44	Shamel Ash	*Fraxinus uhdei*	35	40	30	D	D	No	Remove	Remove	topped, multiple pruning events, exterior dieback, epicormic only

45	Shamel Ash	*Fraxinus uhdei*	31	50	45	B+	C	No	Remove	Remove	minor dieback, topped, multiple pruning events, mechanical damage to NW, epicormic
46	Shamel Ash	*Fraxinus uhdei*	26	50	38	B	C+	No	Remove	Remove	multiple pruning events, epicormic, moderate dieback, hob
47	Chinese Hackberry	*Celtis sinensis*	8, 10, 10, 12, 12	30	30	C	B	No	Remove	Remove	multiple pruning events, epicormic, no foliage, basal sprouts live, not sure if dead
48	Chinese Hackberry	*Celtis sinensis*	14 at 4'	30	30	C	B	No	Remove	Remove	no foliage, multiple pruning events
49	Canary Island Pine	*Pinus canariensis*	24.5	55	25	A	A	No	Remove	Remove	codoms at 20'
50	Canary Island Pine	*Pinus canariensis*	19.5	40	15	A	A	No	Remove	Remove	
51	Chinese Hackberry	*Celtis sinensis*	7, 7, 8.5, 9.5, 10, 10.5, 12	35	40	C	B	No	Remove	Remove	no foliage, water pocket
OS52	Avocado	*Persea americana*	~ 13	25	30	B-	B	No	Remain	Remain	pruned for powerline clearance, overhangs 12' onto property from property line south
53	Aleppo Pine	*Pinus halepensis*	25.5	55	55	A	B	No	Remove	Remove	slight lean south, small planter, asphalt uplift, canopy raised
54	Weeping Fig	*Ficus benjamina*	16.5	30	39	B-	B-	No	Remove	Remove	multiple pruning events, small hanger, epicormic, moderate dieback, roots constricted in past
55	Weeping Fig	*Ficus benjamina*	18.5	30	40	B+	B	No	Remove	Remove	multiple pruning events, roots constricted in past, epicormic
56	Red Ironbark	*Eucalyptus sideroxylon*	16.5	40	30	B-	B-	No	Remove	Remove	hob, multiple pruning events, minor dieback
57	Brisbane Box	*Lophostemon confertus*	4, 8	20	20	A	A	No	Remove	Remove	stake embedded in base
58	Brisbane Box	*Lophostemon confertus*	9 at 3.5'	20	17	A	A	No	Remove	Remove	scaffold growing into iron fence
59	Brisbane Box	*Lophostemon confertus*	10	20	24	A	A	No	Remove	Remove	slight lean west
60	African Fern Pine	*Afrocarpus falcatus*	10	25	18	A	A-	No	Remove	Remove	pruned away from building, asphalt uplift, 2 small broken branches

61	African Fern Pine	*Afrocarpus falcatus*	10.5	25	18	A	A	No	Remove	Remove	interior dieback
62	Chinese Flame Tree	*Koelreuteria bipinnata*	8	25	24	C+	A	No	Remove	Remove	mechanical damage, asphalt uplift, no foliage
63	Chinese Flame Tree	*Koelreuteria bipinnata*	8.5	25	27	C+	A	No	Remove	Remove	asphalt uplift, no foliage
64	Purple Orchid Tree	*Bauhinia variegata*	9 at 3.5'	20	22	B-	B	No	Remove	Remove	moderate dieback, codom at 4', multiple pruning events
65	Canary Island Pine	*Pinus canariensis*	11.5	25	18	A	A	No	Remove	Remove	multiple pruning events, codom at 8'
66	Canary Island Pine	*Pinus canariensis*	15.5	50	20	A	A	No	Remove	Remove	lower canopy raised to avoid structure, tagged on south
67	Canary Island Pine	*Pinus canariensis*	12	50	15	A	A	No	Remove	Remove	lower canopy raised to avoid structure, tagged on south
68	Canary Island Pine	*Pinus canariensis*	14.5	55	18	A	A	No	Remove	Remove	compacted soil in planter
69	Cajeput Tree	*Melaleuca quinquenervia*	17, 19	40	30	A	A-	No	Remove	Remove	codom at base, basal sprouts
70	Crape Myrtle	*Melaleuca quinquenervia*	9	25	22	A	A	No	Remove	Remove	trunk cut (old codom) at 3'
71	Coast Live Oak	*Quercus agrifolia*	21	35	6/20/20/32	B+	B	Yes	Remove	Remove	unbalanced to south, multiple pruning events, epicormic, minor dieback, galls
72	Southern Magnolia	*Magnolia grandiflora*	19.5	30	30	C+	B	No	Remove	Remove	mostly epicormic growth, dry soil, drought stress
73	Southern Magnolia	*Magnolia grandiflora*	10	25	21	C+	B	No	Remove	Remove	moderate dieback, top dieback, drought stress, epicormic
74	Hollywood Juniper	*Juniperus chinensis 'Torulosa'*	10	15	15	B+	B	No	Remain	Remain	leans NE away from building, multiple pruning events
75	Jacaranda	*Jacaranda mimosifolia*	15.5	30	42	C+	B	No	Remain	Remain	leans west, moderate dieback, top dieback, multiple pruning events
76	Jacaranda	*Jacaranda mimosifolia*	27.5	50	63	B	C+	No	Remain	Remain	exposed roots on W, lawnmower damage, leans east, large sprouts, pruned for powerlines
77	Blue Atlas Cedar	*Cedrus atlantica* 'Glauca'	19	35	45	B	B	No	Remain	Remain	woodpecker holes, moderate dieback, multiple pruning events

78	Hollywood Juniper	*Juniperus chinensis 'Torulosa'*	9, 12.5	20	22	A	B	No	Remain	Remain	leans east away from building, multiple pruning events
79	Blue Atlas Cedar	*Cedrus atlantica* 'Glauca'	18.5	35	40	B	B	No	Remain	Remain	woodpecker holes, minor dieback
80	Jacaranda	*Jacaranda mimosifolia*	26	50	52	A	B	No	Remain	Remain	leans east, large sprouts from cuts, pruned for powerlines
81	Jacaranda	*Jacaranda mimosifolia*	27.5	45	52	A	B-	No	Remain	Remain	leans east, long overextended branches, large sprouts from cuts, pruned for powerlines
82	Jacaranda	*Jacaranda mimosifolia*	16.5	30	34	B-	B	No	Remain	Remain	moderate dieback, multiple pruning events
83	Jacaranda	*Jacaranda mimosifolia*	25	35	55	B+	B	No	Remain	Remain	multiple pruning events, pruned for powerlines, leans east, epicormic
84	Blue Atlas Cedar	*Cedrus atlantica* 'Glauca'	24.5	40	45	B+	B+	No	Remain	Remain	minor dieback, multiple pruning events, woodpecker holes
85	Coast Live Oak	*Quercus agrifolia*	7	20	15/20/18/12	B	A-	Yes	Remain	Remain	minor dieback, slight lean south, multiple pruning events
86	Coastal Redwood	*Sequoia sempervirens*	22	40	18	B	B+	No	Remain	Remain	moderate dieback
87	Blue Atlas Cedar	*Cedrus atlantica* 'Glauca'	22.5	35	48	C	B-	No	Remain	Remain	extensive dieback, multiple pruning events, sparse canopy
88	Blue Atlas Cedar	*Cedrus atlantica* 'Glauca'	18.5	35	33	B-	B-	No	Remain	Remain	multiple pruning events, moderate dieback
89	Jacaranda	*Jacaranda mimosifolia*	13	25	42	B	B	No	Remain	Remain	leans SE, multiple pruning events, minor dieback
90	Jacaranda	*Jacaranda mimosifolia*	18.5	35	42	B+	B	No	Remain	Remain	epicormic, exposed roots with lawnmower damage, interior deadwood
91	Jacaranda	*Jacaranda mimosifolia*	11.5	25	33	A	B+	No	Remain	Remain	multiple pruning events
92	Jacaranda	*Jacaranda mimosifolia*	16	30	39	A	B	No	Remain	Remain	epicormic, multiple pruning events, pruned over SW
93	Jacaranda	*Jacaranda mimosifolia*	15	30	38	B-	B	No	Remain	Remain	leans south, moderate dieback, multiple pruning events, epicormic, in powerlines
94	Aleppo Pine	*Pinus halepensis*	24.5 at 2'	50	32	A	B	No	Remain	Remain	leans south away from building, unbalanced to south, codom at 5'

95	Blue Atlas Cedar	*Cedrus atlantica 'Glauca'*	24.5	40	40	C	B-	No	Remain	Remain	woodpecker holes, moderate dieback, in decline, multiple pruning events
96	Blue Atlas Cedar	*Cedrus atlantica 'Glauca'*	22	45	40	C+	C+	No	Remain	Remain	unbalanced to north, codom previously pruned, moderate dieback
97	Coast Live Oak	*Quercus agrifolia*	7 at 4'	15	12/10/12/10	A	A	Yes	Remain	Remain	codom at 5', canopy raised, weedwacker damage
98	Blue Atlas Cedar	*Cedrus atlantica 'Glauca'*	16.5	30	30	C	B	No	Remain	Remain	exterior dieback, sparse foliage, multiple pruning events
99	Jacaranda	*Jacaranda mimosifolia*	15.5	30	36	A	B	No	Remain	Remain	leans south, pruned over SW powerlines
100	Jacaranda	*Jacaranda mimosifolia*	13	30	35	A-	B	No	Remain	Remain	leans south, epicormic growth
101	Jacaranda	*Jacaranda mimosifolia*	12.5	30	35	A	B	No	Remain	Remain	girdling roots, powerlines in canopy
102	Coast Live Oak	*Quercus agrifolia*	12	25	17/11/10/12	C	B	Yes	Remain	Remain	exterior dieback, sparse foliage, possible drought stress, some new growth appearing
103	Canary Island Pine	*Pinus canariensis*	35.5	65	30	A	A	No	Remain	Remain	
104	Blue Atlas Cedar	*Cedrus atlantica 'Glauca'*	27	50	48	B+	B	No	Remain	Remain	minor dieback, long overextended branches
105	Jacaranda	*Jacaranda mimosifolia*	14	25	42	A	B	No	Remain	Remain	leans south, canopy raised over SW, epicormic growth
106	Jacaranda	*Jacaranda mimosifolia*	10	25	24	A	B	No	Remain	Remain	scaffold growing into iron fence
107	Jacaranda	*Jacaranda mimosifolia*	9	20	25	B+	A	No	Remain	Remain	minor dieback
108	Jacaranda	*Jacaranda mimosifolia*	12.5	20	32	B+	B+	No	Remain	Remain	minor dieback
109	Indian Laurel Fig	*Ficus microcarpa*	25.5	40	55	B+	B-	No	Remain	Remain	growing in powerlines, root pruning to west for SW, multiple pruning events, pruned away from building, minor dieback
110	Indian Laurel Fig	*Ficus microcarpa*	33.5	40	52	B+	B-	No	Remain	Remove	minor dieback, multiple pruning events, pruned for powerlines and SW clearance

111	Mexican Fan Palm	*Washingtonia robusta*	BT 38	43	14	A	A	No	Remove	Remove	
112	Mexican Fan Palm	*Washingtonia robusta*	BT 38	43	14	A	A	No	Remove	Remove	
113	Mexican Fan Palm	*Washingtonia robusta*	BT 40'	45	14	A	A	No	Remove	Remove	
114	Mexican Fan Palm	*Washingtonia robusta*	BT 35	40	14	A	A	No	Remove	Remove	
115	Mexican Fan Palm	*Washingtonia robusta*	BT 38	43	14	A	A	No	Remove	Remove	
116	Mexican Fan Palm	*Washingtonia robusta*	BT 34	39	14	A	A	No	Remove	Remove	
117	Indian Laurel Fig	*Ficus microcarpa*	31	35	60	B	B	No	Remove	Remove	root pruning to west for SW, pruning of epicormic, canopy raised, minor dieback
118	California Pepper	*Schinus molle*	12	30	33	A	B	No	Remain	Remain	codoms at 7', overextended branches
119	Jacaranda	*Jacaranda mimosifolia*	~12	25	30	A	B	No	Remain	Remain	epicormic growth, deadwood, codoms at 6', no tag (no access)
120	Camphor	*Cinnamomum camphora*	~12	30	25	B	B	No	Remain	Remain	drought stress, epicormic growth, no tag (no access)
121	California Pepper	*Schinus molle*	10	25	30	A	B	No	Remain	Remain	leans east, powerlines in canopy
122	California Pepper	*Schinus molle*	10.5	25	30	A	B	No	Remain	Remain	leans east, powerlines in canopy
123	Brisbane Box	*Lophostemon confertus*	8.5	25	20	A	A	No	Remain	Remain	interior deadwood
124	Shamel Ash	*Fraxinus uhdei*	49	45	52	B	B	No	Remove	Remove	multiple branch attachments, codoms at 12', deadwood, topped, epicormic growth
125	Shamel Ash	*Fraxinus uhdei*	20.5	25	20	C	C-	No	Remove	Remove	large cavity in trunk with decay, epicormic, deadwood, in decline
126	Shamel Ash	*Fraxinus uhdei*	21	35	20	C	C	No	Remove	Remove	cavity in trunk with decay, codoms at 15', epicormic, deadwood, in decline
127	Shamel Ash	*Fraxinus uhdei*	20,5	35	20	C	C	No	Remove	Remove	leans west, cavities in trunk with decay, deadwood

128	Shamel Ash	*Fraxinus uhdei*	39	45	25	B-	C+	No	Remove	Remove	multiple branch attachments at 15', deadwood, epicormic growth
129	Shamel Ash	*Fraxinus uhdei*	34	45	25	B	B-	No	Remove	Remove	codoms at 10', epicormic growth
130	Shamel Ash	*Fraxinus uhdei*	39	45	42	C	C-	No	Remove	Remove	multiple branch attachments at 10', girdling root on south, cavities with decay, epicormic growth
OS131	Blue Gum	*Eucalyptus globulus*	~35	35	60	B-	B-	No	Remain	Remain	overhangs 25' onto property
OS132	Chinese Hackberry	*Celtis sinensis*	~10, 10	25	35	C	B-	No	Remain	Remain	overhangs 15' onto property, codoms at base, deciduous
ST-1	Callery Pear	*Pyrus calleryana*	13	25	20	B	B-	No	Remain	Remain	multiple branch attachments at 6'
ST-2	Callery Pear	*Pyrus calleryana*	7	15	13	B	B	No	Remain	Remain	
ST-3	Callery Pear	*Pyrus calleryana*	3.5	15	10	B-	B	No	Remain	Remain	
ST-4	Callery Pear	*Pyrus calleryana*	7	20	12	B	C-	No	Remain	Remain	
ST-5	Callery Pear	*Pyrus calleryana*	12.5	25	15	B	B	No	Remain	Remain	
ST-6	Callery Pear	*Pyrus calleryana*	4	15	10	B	B	No	Remain	Remain	
ST-7	Callery Pear	*Pyrus calleryana*	7	20	15	B	B	No	Remain	Remain	

CAPTIONED TREE PHOTOGRAPHS

Tree #5

Tree #6

Tree #7

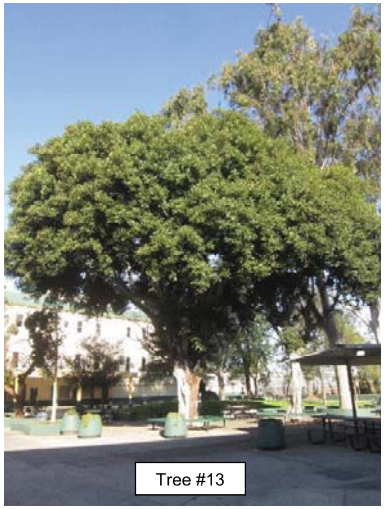
Tree #8

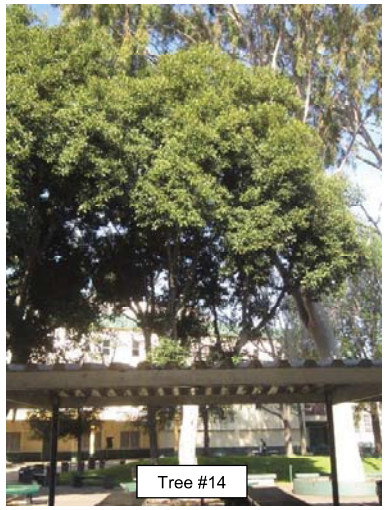
Tree #9

Tree #10

Tree #11

Tree #12


Tree #13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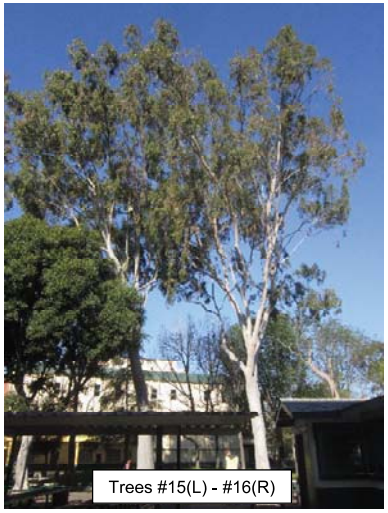
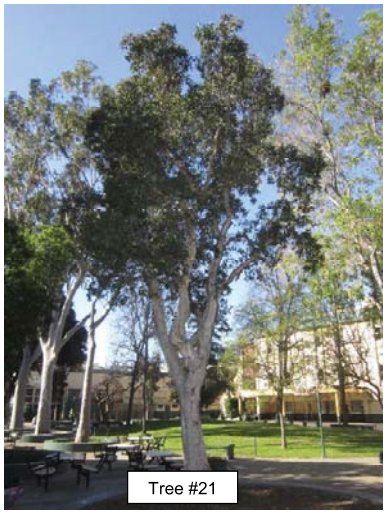

Trees #15(L) - #16(R)

Tree #17

Tree #18

Tree #19

Tree #20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Tree #23

Tree #24

Tree #25

Tree #26

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Tree #28

Tree #29

Tree #30

Tree #31

Tree #32

Tree #33

Tree #34

Trees #35(R) - #36(L)

Tree #37

Tree #38

Tree #39

Tree #40

Tree #41

Tree #42

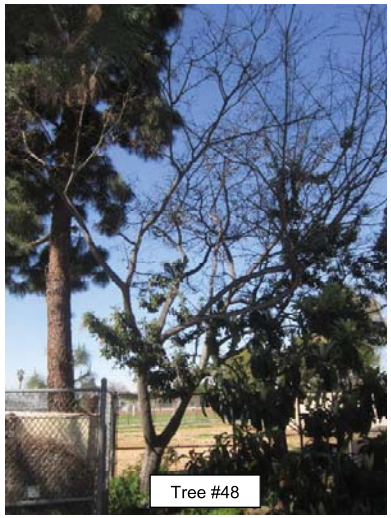
Tree #43

Tree #44

Tree #45

Tree #46

Tree #47


Tree #48

Tree #49

Tree #50

Tree #51

Tree #OS52

Tree #53

Tree #54

Tree #55

Tree #56

Tree #57

Tree #58

Tree #59

Tree #60

Tree #61

Tree #62

Tree #63

Tree #64

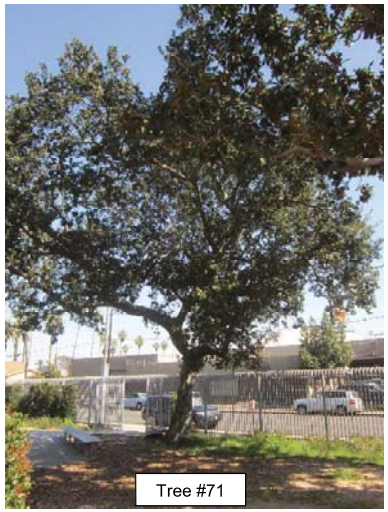
Tree #65

Trees #66(L) - #67(R)

Tree #68

Tree #69

Tree #70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Tree #72

Tree #73

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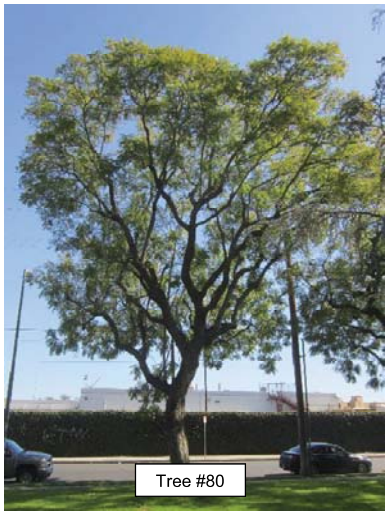
Tree #78

Tree #79


Tree #80

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Tree #82

Tree #83

Tree #83

Tree #84

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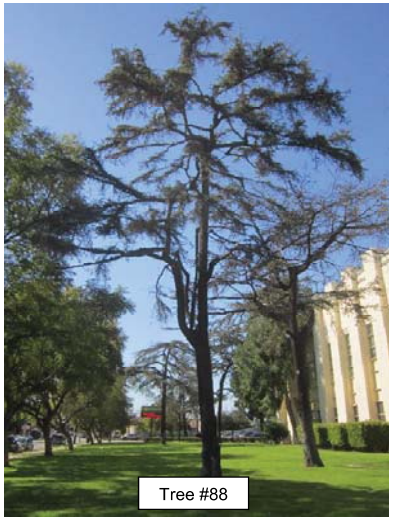
Tree #86

Tree #87


Tree #88

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Tree #100

Tree #101

Tree #102

Tree #103

Tree #104

Tree #105

Tree #106

Tree #107

Tree #108

Tree #109

Tree #110

Trees #111(R) - #113(L)

Trees #114(R) - #116(L)

Tree #117

Tree #118

Tree #119

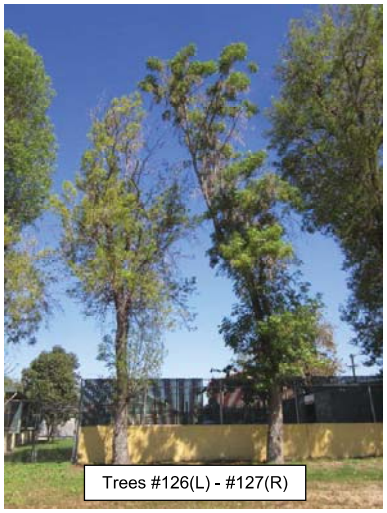
Tree #120

Tree #121

Tree #122

Tree #123

Trees #124(L) - #125(R)


Trees #126(L) - #127(R)

Trees #128(L) - #130(R)

Tree #OS131

Tree #OS132

Tree #ST1

Tree #ST2

Tree #ST3

Tree #ST4

Tree #ST5

Tree #ST6

Tree #ST7

HEALTH AND STRUCTURE GRADE DEFINITIONS

Health and structure ratings of the trees are based on the archetype tree of the same species through a subjective evaluation of its physiological health, aesthetic quality, and structural integrity.

Overall physiological condition (health) and structural condition were rated A-F:

Health

a. Outstanding – Exceptional trees of good growth form and vigor for their age class; exhibiting very good to excellent health as evidenced by normal to exceptional shoot growth during current season, good bud development and leaf color, lack of leaf, twig or branch dieback throughout the crown, and the absence of decay, bleeding, or cankers. Common leaf and/or twig pests may be noted at very minor levels.
b. Above average – Good to very good trees that exhibit minor necrotic or physiological symptoms of stress and/or disease; shoot growth is less than reasonably expected, leaf color is less than optimal in some areas, the crown may be thinning, minor levels of leaf, twig, and branch dieback may be present, and minor areas of decay, bleeding, or cankers may be manifesting. Minor amounts of epicormic growth may be present. Minor amounts of fire damage or mechanical damage may be present. Still healthy, but with moderately diminished vigor and vitality. No significant decline noted.
c. Average – Average, moderately good trees whose growth habit and physiological or fire-induced symptoms indicate an equal chance to either decline or continue with good health into the near future. Most of these trees exhibit moderate to significant small deadwood in outer crown areas, decreased shoot growth and diminished leaf color and mass. Some stem and branch dieback is usually present and epicormic growth may be moderate to extensive. Cavities, pockets of decay, relatively significant fire damage, bark exfoliation, or cracks may be present. Moderate to significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it is expected to negatively impact the lifespan of the tree. Tree may be in early decline.
d. Below Average/Poor - trees whose growth habit and physiological or fire-induced symptoms indicate significant, irreversible decline. Most of these trees exhibit significant dieback of wood in the crown, possibly accompanied by significant epicormic sprouting. Shoot growth and leaf color and mass is either significantly diminished or nonexistent throughout the crown. Cavities, pockets of decay, significant fire damage, bark exfoliation, and/or cracks may be present. Significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it has negatively impacted the lifespan of the tree. Tree appears to be in irreversible decline.
e. Dead or in spiral of decline – this tree exhibits very little to no signs of life.

Structure

A) Outstanding – Trees with outstanding structure for their species exhibit trunk and branch arrangement and orientation that result in a sturdy form or architecture that resists failure under normal circumstances. The spacing, orientation, and size of the branches relative to the trunk are quintessential for the species and free from defects. No outward sign of decay or pathological disease is present. Some trees exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, which would preclude them from achieving an "A" grade.
B) Above average - Trees with good to very good structure for their species. They exhibit trunk and branch arrangement and orientation that result in a relatively sturdy form or architecture that resists failure under normal circumstances, but may have some mechanical damage, over-pruning, or other minor structural defects. The spacing, orientation, and size of the branches relative to the trunk are still in the normal

range for the species, but they exhibit a minor degree of defects. Minor, sub-critical levels of decay or pathological disease may be present, but the degree of damage is not yet structurally significant. Trees that exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, would generally fall in to this category. A small percentage of the canopy may be shaded or crowded, but not in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree.
C) Average - Trees with moderately good structure for their species, but with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a less than sturdy form or architecture, which reduces their resistance to failure under normal circumstances. Moderate levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of some of the branches relative to the trunk are not in the normal range for the species. Moderate to significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A moderate to significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be moderately elevated.
D) Well Below Average/Poor - Trees poor structure for their species and with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a significantly less than sturdy form or architecture, significantly reducing their resistance to failure under normal circumstances. Significant levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of many of the branches relative to the trunk are not in the normal range for the species. Significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be advanced.
E) Severely Compromised – trees with very poor structure and numerous or severe defects due to growing conditions, historical or recent pruning, mechanical damage, history of limb or trunk failures, advanced and irreparable decay, disease, or severe fire damage. Trees with this rating are in severe, irreparable decline, or are barely alive. Risk of full or partial failures in the near future may be severe.

ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees contribute greatly to our enjoyment and appreciation of life. Nonetheless, they are subject to the laws of gravity and physiological decline. Therefore, neither arborists nor tree owners can be reasonably expected to warrant unfailing predictability or elimination of risk.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

Risk assessments were neither requested nor performed on any of the trees for this project.

CERTIFICATION OF PERFORMANCE

I, Cy Carlberg, certify:

- That I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and appraisal (if appropriate) is stated in the attached report and the Terms of Assignment;
- That I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved;
- That the analysis, opinions, and conclusions stated herein are my own;
- That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted arboricultural practices;
- That no one provided significant professional assistance to the consultant, except as indicated within the report;
- That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party.

I further certify that I am an International Society of Arboriculture Certified Arborist, a Registered Consulting Arborist, a Qualified Tree Risk Assessor, and have been involved in the practice of arboriculture and the study of trees for over 35 years.

Signed:

Date: March 13, 2017

Cy Carlberg
Registered Consulting Arborist, #405
Certified Arborist, WE-0575A
Qualified Tree Risk Assessor

CY CARLBERG
CARLBERG ASSOCIATES
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(310) 453-TREE
cy@cycarlberg.com

Education — B.S., Landscape Architecture, California State Polytechnic University, Pomona, 1985
Graduate, Arboricultural Consulting Academy, American Society of Consulting Arborists, Chicago, Illinois, 2002
Graduate, Municipal Forestry Institute, Lied, Nebraska, 2012

Experience — Consulting Arborist, Carlberg Associates, 1998-present
Manager of Grounds Services, California Institute of Technology, Pasadena, 1992-1998
Director of Grounds, Scripps College, Claremont, 1988-1992

Certificates — Certified Arborist (#WE-0575A), International Society of Arboriculture, 1990
Registered Consulting Arborist (#405), American Society of Consulting Arborists, 2002
Certified Urban Forester (#013), California Urban Forests Council, 2004
Certified Tree Risk Assessor (#1028), International Society of Arboriculture, 2011

Areas of Expertise

Ms. Carlberg is experienced in the following areas of tree management and preservation:

- Tree health and risk assessment
- Master Planning
- Tree inventories and reports to satisfy jurisdictional requirements
- Expert Testimony
- Post-fire assessment, valuation, and mitigation for trees and native plant communities
- Value assessments for native and non-native trees
- Pest and disease identification
- Guidelines for oak preservation
- Selection of appropriate tree species
- Planting, pruning, and maintenance specifications
- Tree and landscape resource mapping – GPS, GIS, and AutoCAD
- Planning Commission, City Council, and community meetings representation

Previous Consulting Experience

Ms. Carlberg has overseen residential and commercial construction projects to prevent damage to protected and specimen trees. She has thirty-five years of experience in arboriculture and horticulture and has performed tree health evaluation, value and risk assessment, and expert testimony for private clients, government agencies, cities, school districts, and colleges. Representative clients include:

The Huntington Library and Botanical Gardens
The Los Angeles Zoo and Botanical Gardens
The Rose Bowl and Brookside Golf Course, Pasadena
Walt Disney Concert Hall and Gardens
The Art Center College of Design, Pasadena
Pepperdine University
Loyola Marymount University
The Claremont Colleges (Pomona, Scripps, CMC, Harvey Mudd, Claremont Graduate University, Pitzer, Claremont University Center)
Quinn, Emanuel, Urquhart and Sullivan (attorneys at law)
The City of Claremont
The City of Beverly Hills
The City of Pasadena
The City of Los Angeles
The City of Santa Monica
Santa Monica/Malibu Unified School District
San Diego Gas & Electric
Los Angeles Department of Water and Power
Rancho Santa Ana Botanic Garden, Claremont
Latham & Watkins, LLP (attorneys at law)

Affiliations

Ms. Carlberg serves with the following national, state, and community professional organizations:

- California Urban Forests Council, Board Member, 1995-2006
- Street Tree Seminar, Past President, 2000-present
- American Society of Consulting Arborists Academy, Faculty Member, 2003-2005, 2014
- American Society of Consulting Arborists, Board of Directors, 2013-Present
- Member, Los Angeles Oak Woodland Habitat Conservation Strategic Alliance, 2010-present

SCOTT MCALLASTER

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Education — B.A., Environmental Studies, University of California, Santa Barbara, 2000

Experience — Project Planner & Senior Arborist, Land Design Consultants, Inc.
Pasadena, 1999 – 2014

Certificates — Certified Arborist, WE-7011A, International Society of Arboriculture, 2004
Qualified Tree Risk Assessor, International Society of Arboriculture, 2015

AREAS OF EXPERTISE

Mr. McAllaster is experienced in the following areas of tree management and preservation:

- Tree health & risk assessments
- Inventories & reports for native and non-native trees
- Master planning
- Evaluation of trees for preservation, encroachment, relocation, restoration, and hazards
- Construction monitoring and reporting
- Value assessments (appraisals) for native and non-native trees
- Post-fire inventories, assessments, and valuations for native and non-native trees
- Guidelines for tree preservation, planting, pruning and maintenance specifications
- Tree and landscape resource mapping – GPS, GIS, and AutoCAD
- Planning Commission, City Council, and community meetings representation
- Review of landscape plans for mitigation compliance & fire fuel modification planning
- Performance of long-term mitigation compliance monitoring & reporting

PREVIOUS CONSULTING EXPERIENCE

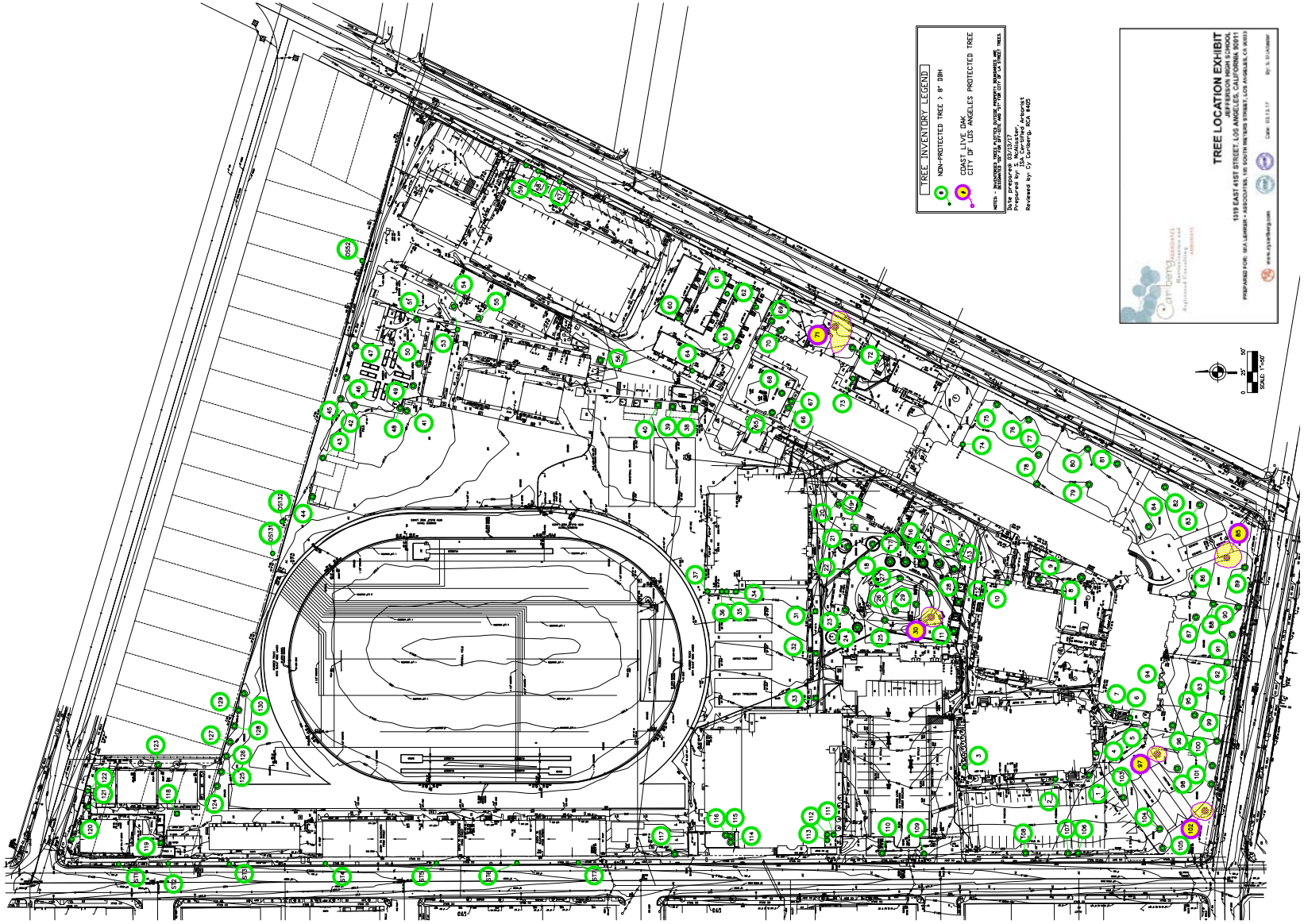
Mr. McAllaster has performed hundreds of tree inventories, health evaluations, impact analyses, hazard, and value assessments for counties, cities, sanitation districts, and water districts, as well as private developers, architects, engineers, and homeowners. He has over 12 years of experience in arboriculture and is trained in environmental planning, state and federal regulatory permitting, preparation of CEQA analyses, and habitat mitigation planning and implementation. Representative clients include:

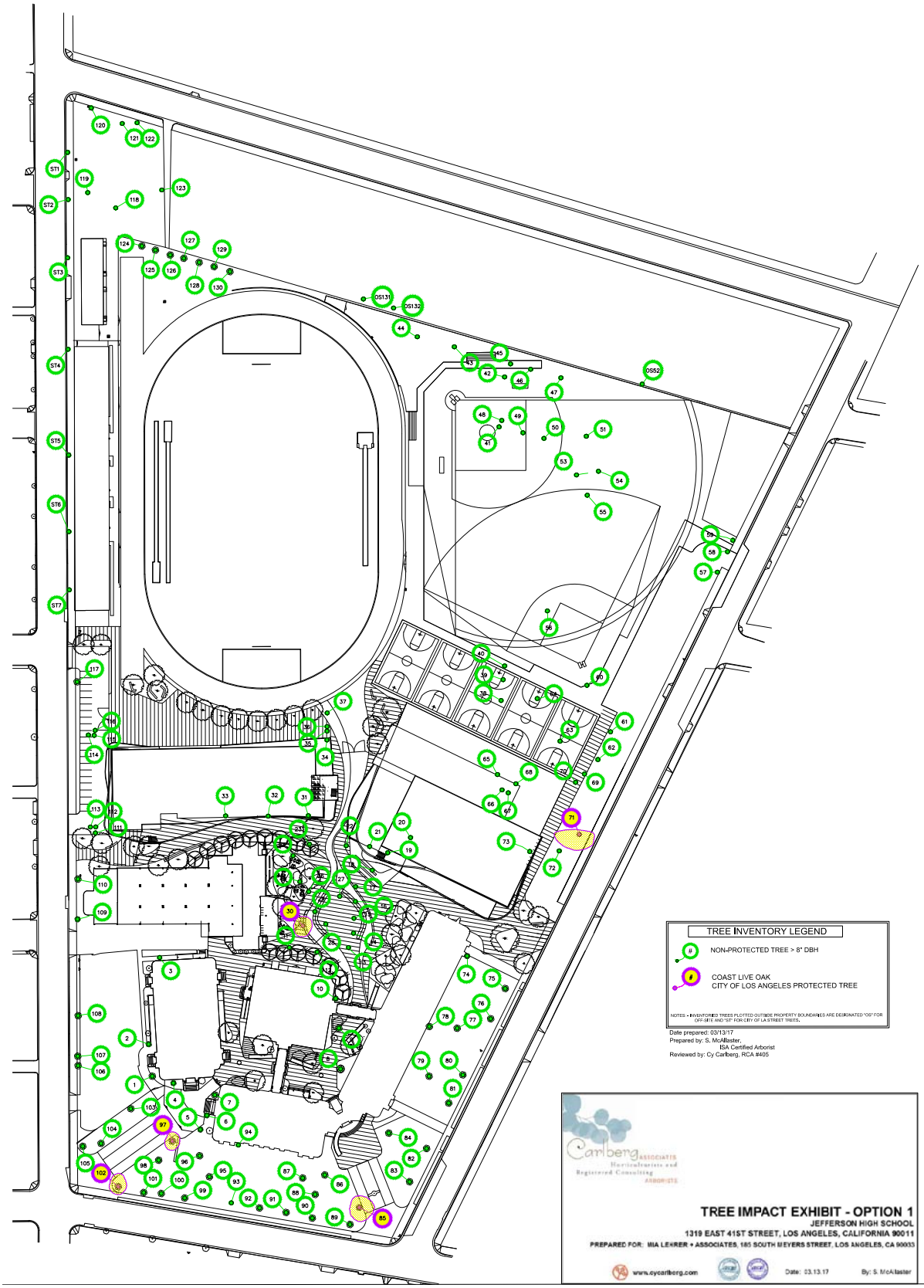
City of Pasadena
City of Santa Clarita
City of Glendora
Los Angeles County Fire Department
Los Angeles County Sanitation Districts
Newhall County Water District
Pulte/Centex Homes
Newhall Land and Farming
E & S Ring, Inc.
Hollywood Forever Cemetery
Archdiocese of Los Angeles
St. John's Hospital, Santa Monica
Kovac Architects
Tim Barber, Ltd., Architects
Ojai Valley Community Hospital
The Kibo Group
El Monte Garden Senior Center
IMT Capital, LLC
San Diego Gas & Electric
Corky McMillin Companies
City of South Gate
City of Arcadia
D2 Development
Burrtec, Inc.
The Claremont Colleges
The New Home Company
William Carey University
Claremont Golf Course
Universal Hilton
Gensler Architects
Marmol Radziner, Architects
NAC Architecture
Aurora/Signature Health Services
Monte Vista Grove Homes
Highpointe Communities
Claremont University Center

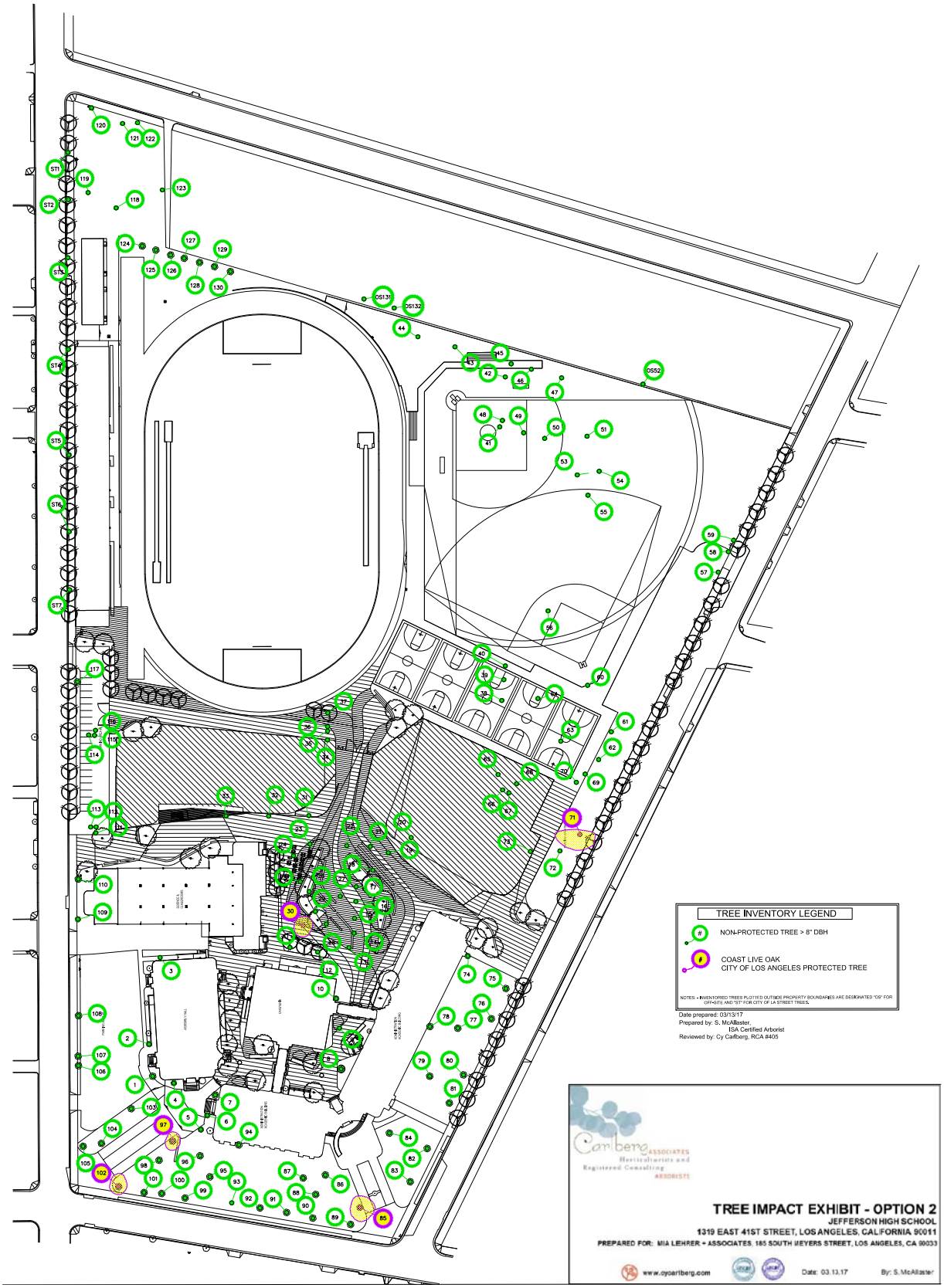
AFFILIATIONS

Mr. McAllaster serves with the following national and regional professional organizations:

- Member, International Society of Arboriculture, Western Chapter
- Member, Street Tree Seminar, Inc.


TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
COAST LIVE OAK
CITY OF LOS ANGELES PROTECTED TREE
Date prepared 03/13/17
Prepared by S. McAllister, ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
TREE LOCATION EXHIBIT
JEFFERSON HIGH SCHOOL
1319 EAST 41ST STREET, LOS ANGELES, CALIFORNIA 90011
SCALE: 1"=50'


TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
COAST LIVE OAK
CITY OF LOS ANGELES PROTECTED TREE
NOTES: - INVENTORIED TREES PLOTTED OUTSIDE PROPERTY BOUNDARIES ARE DESIGNATED "OS" FOR OFF-SITE AND "ST" FOR CITY OF LA STREET TREES.
Date prepared: 03/13/17
Prepared by: S. McAllaster,
ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
Carlberg Associates
Horticulturists and Registered Consulting Arborists
TREE IMPACT EXHIBIT - OPTION 1
JEFFERSON HIGH SCHOOL
1319 EAST 41ST STREET, LOS ANGELES, CALIFORNIA 90011
PREPARED FOR: IMIA LEHRER + ASSOCIATES, 185 SOUTH MEYERS STREET, LOS ANGELES, CA 90033
www.cycarlberg.com
Date: 03.13.17
By: S. McAllaster


TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
COAST LIVE OAK
CITY OF LOS ANGELES PROTECTED TREE
NOTES: • INVENTORIED TREES PLOTTED OUTSIDE PROPERTY BOUNDARIES ARE DESIGNATED "OS" FOR OFF-SITE AND "ST" FOR CITY OF LA STREET TREES.
Date prepared: 03/13/17
Prepared by: S. McAllister,
ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
Carlberg ASSOCIATES
Horticulturists and Registered Consulting ARBORISTS
TREE IMPACT EXHIBIT - OPTION 2
JEFFERSON HIGH SCHOOL
1319 EAST 41ST STREET, LOS ANGELES, CALIFORNIA 90011
PREPARED FOR: MIA LEHRER + ASSOCIATES, 185 SOUTH BEYERS STREET, LOS ANGELES, CA 90033
www.cycarlberg.com
Date: 03.13.17
By: S. McAllister

B-2 California Department of Fish and Wildlife, California Natural Diversity Database

ESA

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE **RareFind**

Query Summary:
Quad IS (Hollywood (3411813) OR Inglewood (3311883) OR Los Angeles (3411812) OR South Gate (3311882))

Print Close

CNDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	949	1	None	Candidate Endangered	G2G3	S1S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern	Freshwater marsh, Marsh & swamp, Swamp, Wetland
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	ABPBX91091	218	1	None	None	G5T3	S3	null	CDFW_WL-Watch List	Chaparral, Coastal scrub
Antrozous pallidus	pallid bat	Mammals	AMACC10010	407	1	None	None	G5	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	Chaparral, Coastal scrub, Desert wash, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Riparian woodland, Sonoran desert scrub, Upper montane coniferous forest, Valley & foothill grassland
Arenaria paludicola	marsh sandwort	Dicots	PDCAR040L0	16	1	Endangered	Endangered	G1	S1	1B.1	SB_SBBG-Santa Barbara Botanic Garden	Freshwater marsh, Marsh & swamp, Wetland
Arizona elegans occidentalis	California glossy snake	Reptiles	ARADB01017	260	1	None	None	G5T2	S2	null	CDFW_SSC-Species of Special Concern	null
Astragalus brauntonii	Braunton's milk-vetch	Dicots	PDFAB0F1G0	42	1	Endangered	None	G2	S2	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden	Chaparral, Coastal scrub, Limestone, Valley & foothill grassland
Astragalus tener var. titi	coastal dunes milk-vetch	Dicots	PDFAB0F8R2	6	1	Endangered	Endangered	G2T1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal bluff scrub, Coastal dunes, Coastal prairie
Athene cunicularia	burrowing owl	Birds	ABNSB10010	1937	1	None	None	G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-	Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin

											Least Concern, USFWS_BCC-Birds of Conservation Concern	scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland
Atriplex coulteri	Coulter's saltbush	Dicots	PDCHE040E0	102	1	None	None	G3	S1S2	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley & foothill grassland
Atriplex serenana var. davidsonii	Davidson's saltscale	Dicots	PDCHE041T1	28	2	None	None	G5T1	S1	1B.2	null	Coastal bluff scrub, Coastal scrub
Bombus crotchii	Crotch bumble bee	Insects	IIHYM24480	233	4	None	None	G3G4	S1S2	null	null	null
California Walnut Woodland	California Walnut Woodland	Woodland	CTT71210CA	76	1	None	None	G2	S2.1	null	null	Cismontane woodland
California macrophylla	round-leaved filaree	Dicots	PDGER01070	162	1	None	None	G3?	S3?	1B.2	BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden	Cismontane woodland, Valley & foothill grassland
Calochortus plummerae	Plummer's mariposa-lily	Monocots	PMLIL0D150	230	1	None	None	G4	S4	4.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley & foothill grassland
Calystegia felix	lucky morning-glory	Dicots	PDCON040P0	9	2	None	None	GHQ	SH	3.1	null	Meadow & seep, Riparian scrub
Carolella busckana	Busck's gallmoth	Insects	IILEM2X090	4	1	None	None	G1G3	SH	null	null	Coastal dunes, Coastal scrub
Centromadia parryi ssp. australis	southern tarplant	Dicots	PDAST4R0P4	87	6	None	None	G3T2	S2	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Marsh & swamp, Salt marsh, Valley & foothill grassland, Vernal pool, Wetland
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	ABNRB02022	155	1	Threatened	Endangered	G5T2T3	S1	null	BLM_S-Sensitive, NABCI_RWL-Red Watch List, USFS_S-Sensitive, USFWS_BCC-Birds of Conservation Concern	Riparian forest
Dudleya multicaulis	many-stemmed dudleya	Dicots	PDCRA040H0	147	1	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive	Chaparral, Coastal scrub, Valley & foothill grassland
Empidonax traillii extimus	southwestern willow flycatcher	Birds	ABPAE33043	70	3	Endangered	Endangered	G5T2	S1	null	NABCI_RWL-Red Watch List	Riparian woodland
Eryngium aristulatum var. parishii	San Diego button-celery	Dicots	PDAPI0Z042	79	1	Endangered	Endangered	G5T1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal scrub, Valley & foothill grassland,

												Vernal pool, Wetland
Eumops perotis californicus	western mastiff bat	Mammals	AMACD02011	294	5	None	None	G5T4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, WBWG_H-High Priority	Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland
Helianthus nuttallii ssp. parishii	Los Angeles sunflower	Dicots	PDAST4N102	7	2	None	None	G5TH	SH	1A	null	Freshwater marsh, Marsh & swamp, Salt marsh, Wetland
Horkelia cuneata var. puberula	mesa horkelia	Dicots	PDROS0W045	103	2	None	None	G4T1	S1	1B.1	USFS_S-Sensitive	Chaparral, Cismontane woodland, Coastal scrub
Lasiurus cinereus	hoary bat	Mammals	AMACC05030	235	4	None	None	G5	S4	null	IUCN_LC-Least Concern, WBWG_M-Medium Priority	Broadleaved upland forest, Cismontane woodland, Lower montane coniferous forest, North coast coniferous forest
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	Dicots	PDAST5L0A1	97	1	None	None	G4T2	S2	1B.1	BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa, Marsh & swamp, Salt marsh, Vernal pool, Wetland
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Dicots	PDBRA1M114	142	1	None	None	G5T3	S3	4.3	null	Chaparral, Coastal scrub
Microtus californicus stephensi	south coast marsh vole	Mammals	AMAFF11035	7	2	None	None	G5T1T2	S1S2	null	CDFW_SSC-Species of Special Concern	null
Nasturtium gambelii	Gambel's water cress	Dicots	PDBRA270V0	12	1	Endangered	Threatened	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden	Brackish marsh, Freshwater marsh, Marsh & swamp, Wetland
Navarretia fossalis	spreading navarretia	Dicots	PDPLM0C080	74	1	Threatened	None	G2	S2	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa, Chenopod scrub, Marsh & swamp, Vernal pool, Wetland
Navarretia prostrata	prostrate vernal pool navarretia	Dicots	PDPLM0C0Q0	60	5	None	None	G2	S2	1B.1	null	Coastal scrub, Meadow & seep, Valley & foothill grassland, Vernal pool, Wetland
Nyctinomops femorosaccus	pocketed free-tailed bat	Mammals	AMACD04010	90	1	None	None	G4	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_M-Medium Priority	Joshua tree woodland, Pinon & juniper woodlands, Riparian scrub, Sonoran desert scrub
Nyctinomops macrotis	big free-tailed bat	Mammals	AMACD04020	32	1	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_MH-	null

											Medium-High Priority	
Orcuttia californica	California Orcutt grass	Monocots	PMPOA4G010	37	2	Endangered	Endangered	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Vernal pool, Wetland
Phacelia stellaris	Brand's star phacelia	Dicots	PDHYD0C510	15	1	None	None	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal dunes, Coastal scrub
Phrynosoma blainvillii	coast horned lizard	Reptiles	ARACF12100	755	5	None	None	G3G4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub, Desert wash, Pinon & juniper woodlands, Riparian scrub, Riparian woodland, Valley & foothill grassland
Polioptila californica californica	coastal California gnatcatcher	Birds	ABPBJ08081	821	1	Threatened	None	G4G5T2Q	S2	null	CDFW_SSC-Species of Special Concern, NABCI_YWL-Yellow Watch List	Coastal bluff scrub, Coastal scrub
Pseudognaphalium leucocephalum	white rabbit-tobacco	Dicots	PDAST440C0	62	1	None	None	G4	S2	2B.2	null	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland
Ribes divaricatum var. parishii	Parish's gooseberry	Dicots	PDGRO020F3	5	1	None	None	G4TX	SX	1A	null	Riparian woodland
Riparia riparia	bank swallow	Birds	ABPAU08010	297	1	None	Threatened	G5	S2	null	BLM_S-Sensitive, IUCN_LC-Least Concern	Riparian scrub, Riparian woodland
Sidalcea neomexicana	Salt Spring checkerbloom	Dicots	PDMAL110J0	30	2	None	None	G4	S2	2B.2	USFS_S-Sensitive	Alkali playa, Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Wetland
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	CTT62400CA	230	1	None	None	G4	S4	null	null	Riparian woodland
Symphyotrichum defoliatum	San Bernardino aster	Dicots	PDASTE80C0	76	2	None	None	G2	S2	1B.2	BLM_S-Sensitive, USFS_S-Sensitive	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Valley & foothill grassland
Symphyotrichum greatae	Greata's aster	Dicots	PDASTE80U0	56	2	None	None	G2	S2	1B.3	BLM_S-Sensitive	Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland

Taxidea taxus	American badger	Mammals	AMAJF04010	535	1	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Alkali marsh, Alkali playa, Alpine, Alpine dwarf scrub, Bog & fen, Brackish marsh, Broadleaved upland forest, Chaparral, Chenopod scrub, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Desert dunes, Desert wash, Freshwater marsh, Great Basin grassland, Great Basin scrub, Interior dunes, Ione formation, Joshua tree woodland, Limestone, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Mojavean desert scrub, Montane dwarf scrub, North coast coniferous forest, Oldgrowth, Pavement plain, Redwood, Riparian forest, Riparian scrub, Riparian woodland, Salt marsh, Sonoran desert scrub, Sonoran thorn woodland, Ultramafic, Upper montane coniferous forest, Upper Sonoran scrub, Valley & foothill grassland
Vireo bellii pusillus	least Bell's vireo	Birds	ABPBW01114	478	6	Endangered	Endangered	G5T2	S2	null	IUCN_NT-Near Threatened, NABCI_YWL-Yellow Watch List	Riparian forest, Riparian scrub, Riparian woodland
Walnut Forest	Walnut Forest	Forest	CTT81600CA	6	1	None	None	G1	S1.1	null	null	Broadleaved upland forest

Appendix C
Cultural Resources Reports

ESA

C-1 Historic Resources Technical Report

THOMAS JEFFERSON HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

CEQA Historic Resources Technical Report

Prepared for
Los Angeles Unified School District

May 2018

ESA

THOMAS JEFFERSON HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

CEQA Historic Resources Technical Report

Prepared for
Los Angeles Unified School District

May 2018

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THOMAS JEFFERSON HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

CEQA Historic Resources Technical Report

1. Introduction

1.1 Purpose and Scope

The Los Angeles Unified School District ("LAUSD" or "District") has retained Environmental Science Associates (ESA) to prepare a California Environmental Quality Act (CEQA) Historic Resources Technical Report (HRTR) for the Thomas Jefferson High School Comprehensive Modernization Project (Project). The Project is a site-specific school upgrade and modernization project being completed by LAUSD under the School Upgrade Program (SUP). The SUP Environmental Impact Report (Program EIR) was certified by LAUSD on November 10, 2015.[1] The proposed Project would include the demolition and removal of existing buildings, construction of new facilities, and modernization and seismic upgrades to existing buildings. LAUSD is the lead agency pursuant to CEQA. Thomas Jefferson High School was determined eligible for the National Register of Historic Places (National Register) and listed on the California Register of Historical Resources (California Register) through consensus with the State Office of Historic Preservation (2S2). It was found eligible under Criterion C for its Streamline Moderne architectural style.[2] Because Thomas Jefferson High School is considered a historical resource under CEQA, this HRTR presents ESA's CEQA impacts analysis findings with regard to potential Project impacts to identified historical resources that may be affected by the Project.

1.2 Project Team

ESA personnel involved in the preparation of this report are as follows: Margarita Jerabek, Ph.D., Project Director, Amanda Kainer, M.S., report author, and Amber Grady, M.A., quality assurance/ quality control (QA/QC). Resumes of key personnel are included in **Appendix A**.

1 Placeworks, School Upgrade Program EIR, June 2014.

2 Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Resources Survey Report*, June 2014.

2. Project Description

2.1 Project Location and Site Description

Thomas Jefferson High School ("Jefferson HS" or "campus") is located on an 18.9-acre site in a residential area, approximately two miles south of downtown Los Angeles and approximately 15 miles east of the Pacific Ocean. Specifically, the campus is located at 1319 East 41st Street within the southeast portion of the City of Los Angeles. The campus is a trapezoidal shape. The campus comprises an entire block and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and residences and East 33rd Street to the north. The Assessor's Parcel Number (APN) for the Project Site is 5114-03-6900.

2.1.1 Contributing Buildings

During the Phase I Getty Survey conducted on March 15, 2002, Jefferson HS was recommended eligible for the National Register and California Register through survey evaluation and assigned CHR Status Codes of 3S (appears eligible for the National Register as an individual property through survey evaluation) and 3CS (appears eligible for the California Register as an individual property through survey evaluation). Jefferson HS was evaluated again in 2004, as a result of Section 106 review, and formally determined eligible for the National Register through consensus with the SHPO, automatically listed in the California Register, and assigned a CHR Status Code of 2S2. Lastly, Jefferson HS was re-evaluated by SurveyLA in March 2012 during the Office of Historic Resources' historic resources survey of the Southeast Los Angeles Community Plan Area (CPA), and was recommended as eligible for the national, State and local level as a historic resource and was assigned CHR Status Codes of 3S, 3CS, and 5S3 (appears to be individually eligible for local listing or designation through survey evaluation). For the purposes of the proposed Project and future projects, LAUSD has decided to re-evaluate the campus as a potential historic district. By this identification, buildings, structures, and landscape features either contribute or do not contribute to the significance of the potential Thomas Jefferson High School Historic District (potential Historic District).

A Character Defining Features Memorandum (CDFM) was prepared in 2015 to facilitate early planning efforts[3] for the site. In the CDFM, the buildings, structures, and landscape features were identified as "primary" (significant), "secondary" (contributing), "tertiary" (contributing), and "non-contributing." For the purposes of the proposed Project and future projects, LAUSD has decided to re-evaluate the campus as a potential historic district. The contributors to the potential Historic District are those buildings and landscape features identified in the CDFM as "primary (significant)," "secondary (contributing)," and "tertiary (contributing)." The contributing buildings, structures, and landscape are: the Administrative Building (Building 1), Auditorium (also Assembly Hall; Building 2), Cafeteria (Building 3), Classroom Building (Building 4), the Mechanical Arts Building (Building 11), and Utility Building (Building 8). The historic landscaping, or "great lawn," which is also a contributor to the potential Historic District, is located at the corner of 41st Street and Compton Avenue to the south and east of the Administrative and

[3] PCR Services Corp. "Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California, 90011." July 28, 2015.

Classroom Building 1 and contains expanses of green grass, mature trees, and plants. The Mechanical Arts Building (Building 11) and Utility Building (Building 8) (identified in the CDFM as "secondary (contributing)" and "tertiary (contributing)," respectively) were constructed during the period of significance of the potential Historic District, but are not as prominent as those buildings, structures, and landscape features identified in the CDFM as "primary (significant)." Specifically, the degree to which the Mechanical Arts and Utility buildings contribute to the potential Historic District is not commensurate with that of the primary contributors identified in the CDFM.

Jefferson HS is designed in the Streamline Moderne style and general character-defining features (CDFs) include curving forms, long horizontal lines, and smooth exterior walls. The campus site plan is shown on **Figure 1**.

2.2 Project Elements

The proposed Project would include the demolition and removal of existing buildings, construction of new facilities, and heavy and light modernization and seismic retrofit of existing buildings. Presented in **Figure 2** is the proposed site plan showing the buildings and landscape features to be retained along with the new construction. ESA reviewed a set of "Final Schematic Design Plans" prepared by HMC Architects on March 31, 2017 as well as updated plans in the Thomas Jefferson High School Historical Review: Comprehensive Modernization PowerPoint Presentation dated 10/9/17. Pertinent elevations and renderings are excerpted from the plan set and are included as **Figure 3** through **Figure 8** (shown later in this document) to support the Project description. The proposed Project is broken down into three distinct components that include a combination of restoration and rehabilitation of the contributing historic buildings alongside modernizations and seismic retrofits; site upgrades and landscape design improvements; and new construction, as described further below.

2.2.1 Modernization and Seismic Retrofit of Contributing Buildings

Modernization would be completed for the following three contributors: Administrative Building (Building 1), Main Classroom Building (Building 4), and Auditorium (Building 2). The focus of the modernization is the interiors of these building to bring them up to Division of the State Architect (DSA), California Building Code (and the California Historic Building Code; where applicable), California Department of Education, LAUSD, and Americans with Disabilities Act (ADA) standards. The primary CDFs of the exteriors are proposed to be retained and rehabilitated. Additionally, Cafeteria (Building 3) would be seismically retrofitted. The modernization and seismic retrofit of these contributing buildings are described in the following paragraphs.

2.2.1.1 Administrative Building (Building 1) and Classroom Building (Building 4)

The primary exterior CDFs along the southern portion of the Administrative Building (Building 1) and Main Classroom Building (Building 4) would be retained and rehabilitated under the Project. The rear (north) elevation of the main entrance lobby (interior quad) would be expanded. Exterior alterations would include the following:

- Provide a new concrete exit at the interior quad side that is ADA-compliant (and DSA approved; building use and occupancy required),

- Remove exterior plaster above windows to restore original window conditions. Exterior windows would be weatherproofed, rehabilitated or replaced where required, and would match the original design, and

- All roofing and mechanical equipment would be replaced.

Within their interiors, the spatial configuration of these buildings would be reorganized and the interior finishes, utilities and technologies would be updated to current standards. The following interior improvements are proposed and also depicted on the proposed floor plans shown in **Figures 3** through **5**:

- While the corridor configuration would remain the same the classrooms and offices would be resized through the demolition and reconstruction of interior walls on the 1st floor of Administration Building (Building 1) and 2nd floor of Classroom Building (Building 4),

- The 2nd floor of Administration Building (Building 1) would be reconfigured to accommodate an expanded library,

- The 1st floor of the Classroom Building (Building 4) would be reconfigured to accommodate an expanded administration area,

- The main entrance lobby entry (connecting Buildings 1 and 4) would be maintained, but redesigned and enlarged to the north,

- The administration area would move to the first floor of Classroom Building (Building 4) and would increase in size,

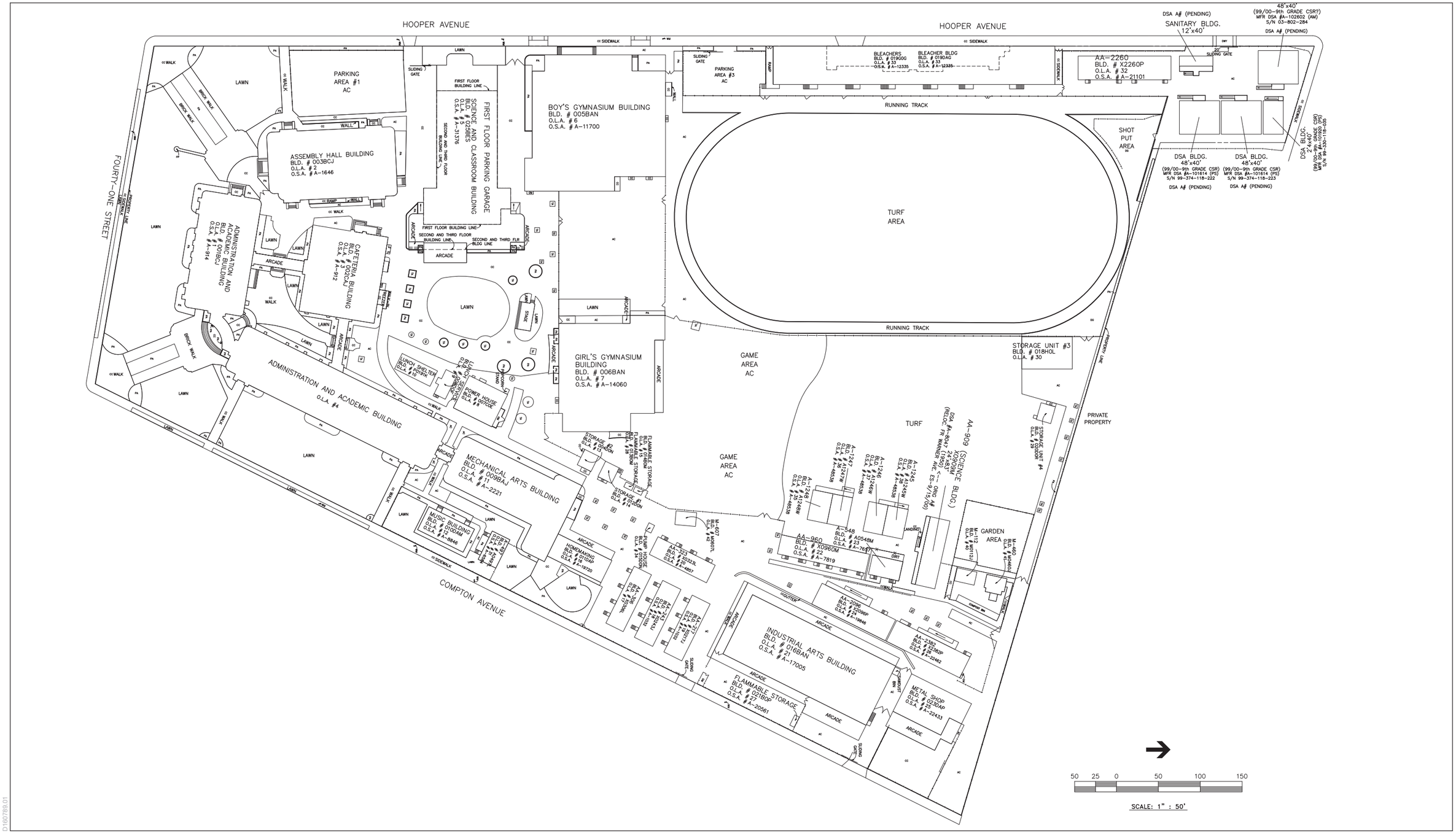
- Alterations would be completed in the interior for a new concrete shear wall. The Ross Dickinson mural in the library and existing plaster would be affected by this new wall. The Ross Dickinson mural would be repaired and restored in-place by a conservation artist, safely removed and stored offsite during modernization, and reinstalled when the library construction is complete. A conservation plan has been prepared by a Conservator of Paintings to ensure the safe treatment, removal, storage, and replacement of this mural,

- The existing gypsum plaster above the shelving in library would be removed and mitigated,

- The elevator (that was not a part of the original building) would be removed to allow the lobby to be expanded. The alterations to the north (quad side) entry to lobby would retain the curved walls connection between Building 1 and 4 and would insert the addition of an accessible and securable entrance that incorporates windows to allow natural light to access the lobby,

- The floor circulation, stairs and corridors shall remain. The 2nd floor of the Library would be expanded to incorporate what originally was the 2nd floor corridor,

- The interior design would incorporate design elements that would distinguish boundaries where previous corridor walls used to be,



SOURCE: LAUSD

Thomas Jefferson High School Comprehensive Modernization Project

Figure 1
Existing Site Plan

ESA

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PARKING COUNT

- P1 **44** PARKING SPACES
- P2 **12** PARKING SPACES
- P3 **88** PARKING SPACES
- P4 **36** PARKING SPACES

TOTAL: 177 PARKING SPACES

LEGEND

(E) BUILDINGS

A1	ACADEMIC BUILDING
A2	ADMINISTRATION / ACADEMIC BUILDING
A3	CAFETERIA BUILDING
B	ASSEMBLY BUILDING
C	SCIENCE / CLASSROOM BUILDING
33	STADIUM / BLEACHERS

KEYNOTES

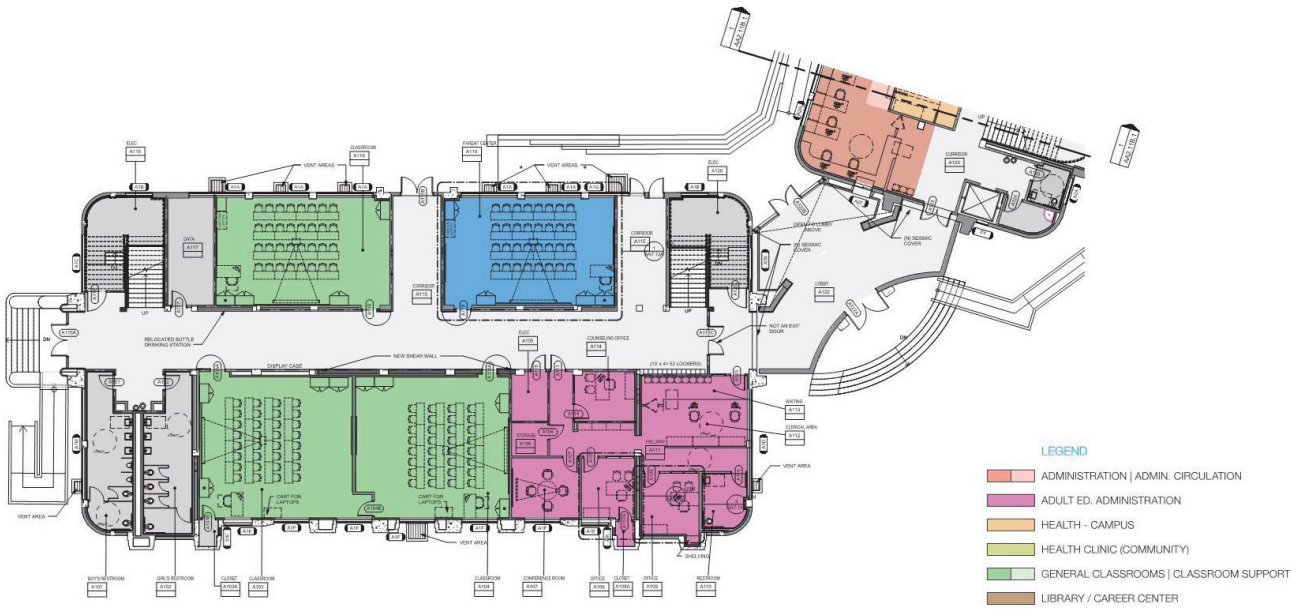
	MAIN ENTRY
1	STUDENT ENTRY
2	HISTORIC 'GREAT LAWN'
3	SERVICE YARD
4	QUAD
5	STAGE
6	ELECTRICAL ENCLOSURE
7	HARDCOURTS
8	PLAYFIELDS
9	(E) TRACK & FIELD
10	GARDEN
11	STORAGE CONTAINERS
12	IRRIGATION CONTROLS
13	TENNIS COURTS
14	FLAMABLE STORAGE
15	PARKING AREA
P#	

NOTE: *The building names are for reference with this figure only. Building names are not commensurate to the building names used by the District or in the report.

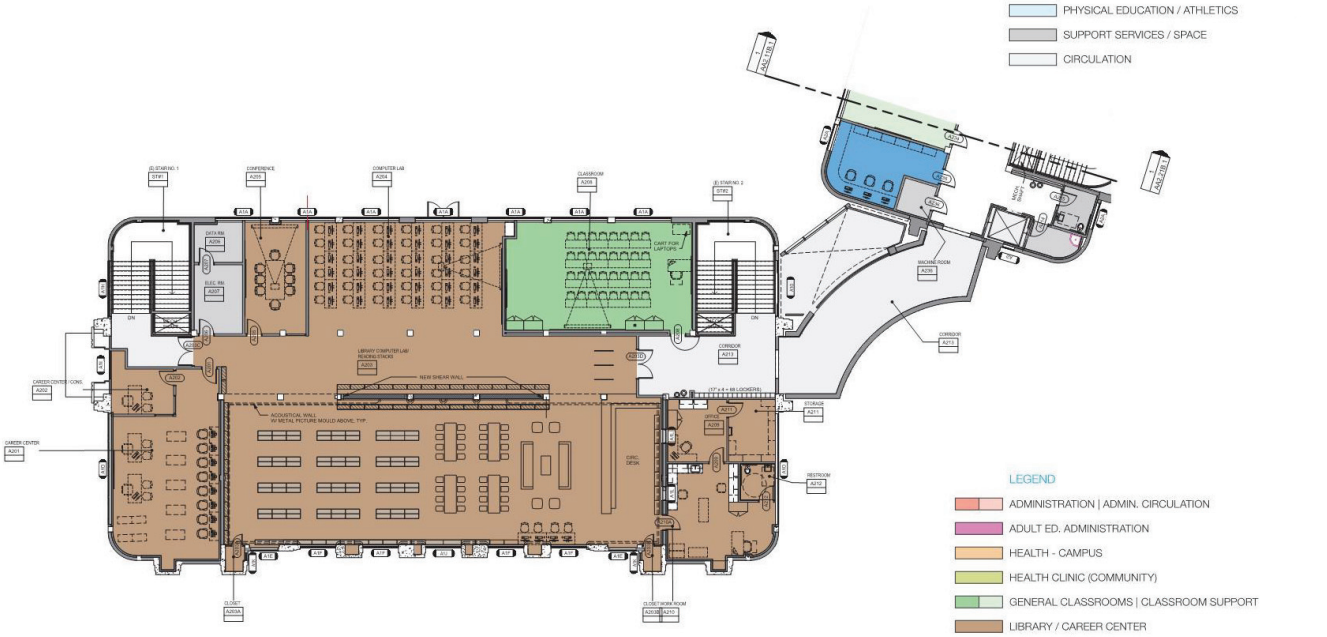
N

SOURCE: HMC Architects

Figure 2
Proposed Site Plan



A1 Classroom Building Modernization – First Floor Plan



A1 Classroom Building Modernization – Second Floor Plan

LEGEND

- ADMINISTRATION | ADMIN. CIRCULATION
- ADULT ED. ADMINISTRATION
- HEALTH - CAMPUS
- HEALTH CLINIC (COMMUNITY)
- GENERAL CLASSROOMS | CLASSROOM SUPPORT
- LIBRARY / CAREER CENTER
- MAINTENANCE & OPERATIONS
- PARENT / COMMUNITY
- PATHWAY / SPECIALITY LABS / FLEX CLASSROOMS
- SCIENCE LABS
- SPECIAL EDUCATION
- SHARED EDUCATIONAL AREAS - PERFORMING ARTS
- SHARED EDUCATIONAL AREAS - VISUAL ARTS
- PHYSICAL EDUCATION / ATHLETICS
- SUPPORT SERVICES / SPACE
- CIRCULATION

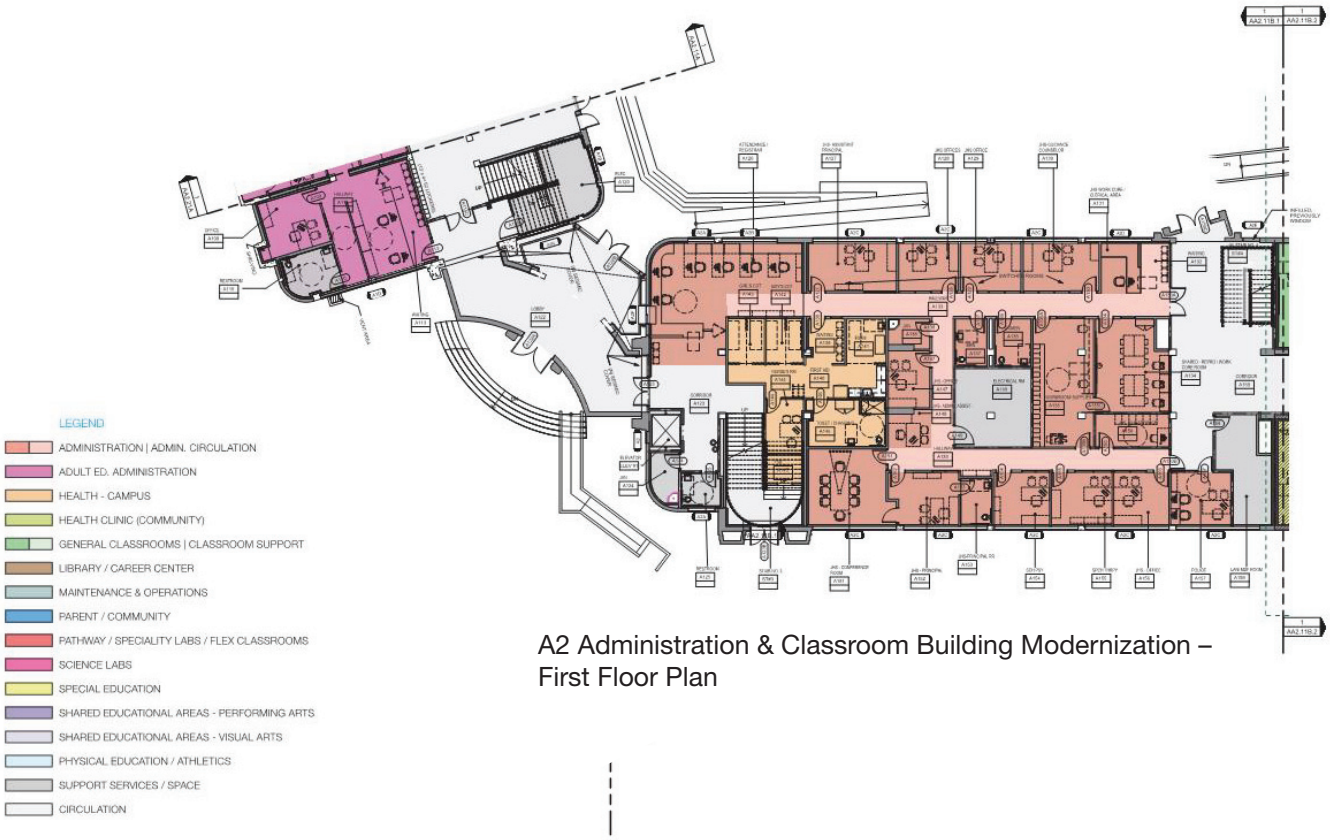
D160789.01

SOURCE: HMC Architects

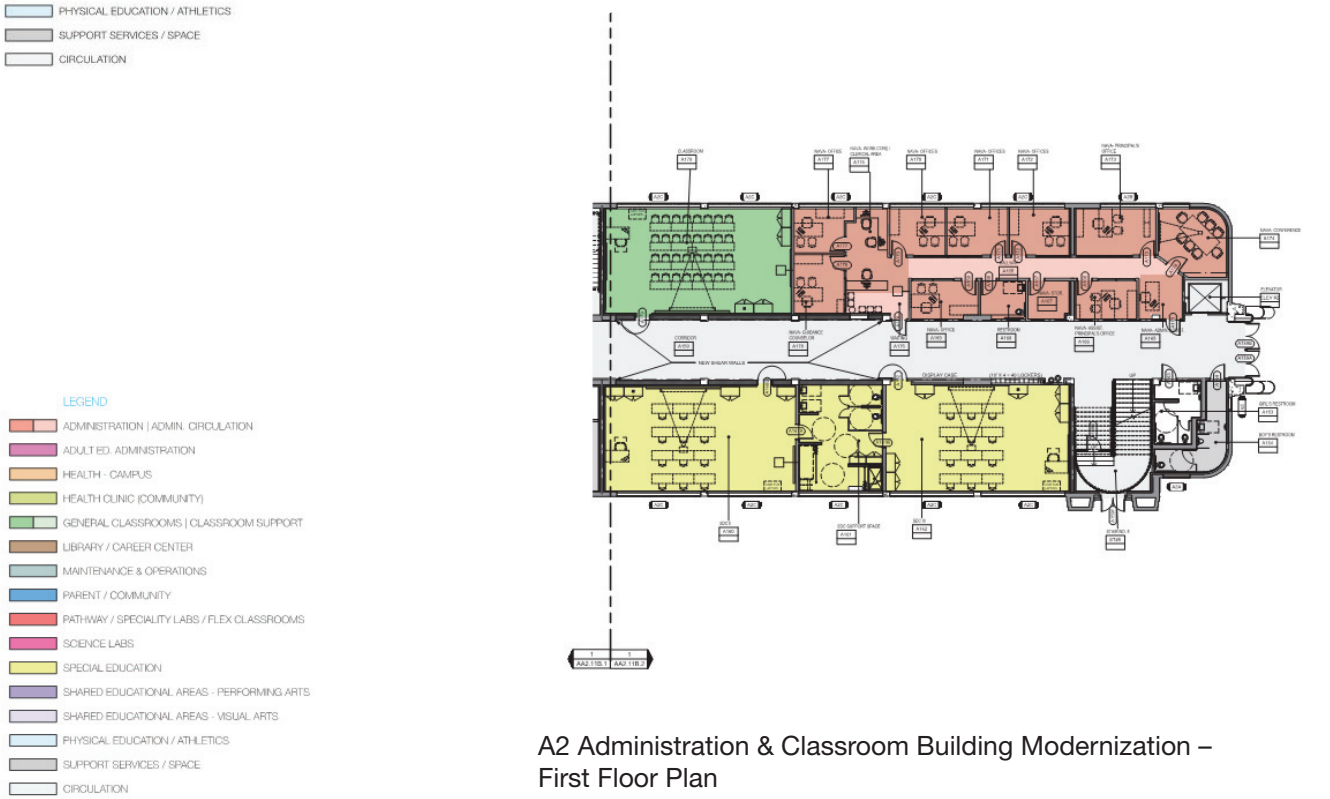
Thomas Jefferson High School Comprehensive Modernization Project

Figure 3
Building 1 (Classroom) Modernization

ESA



A2 Administration & Classroom Building Modernization – First Floor Plan



A2 Administration & Classroom Building Modernization – First Floor Plan

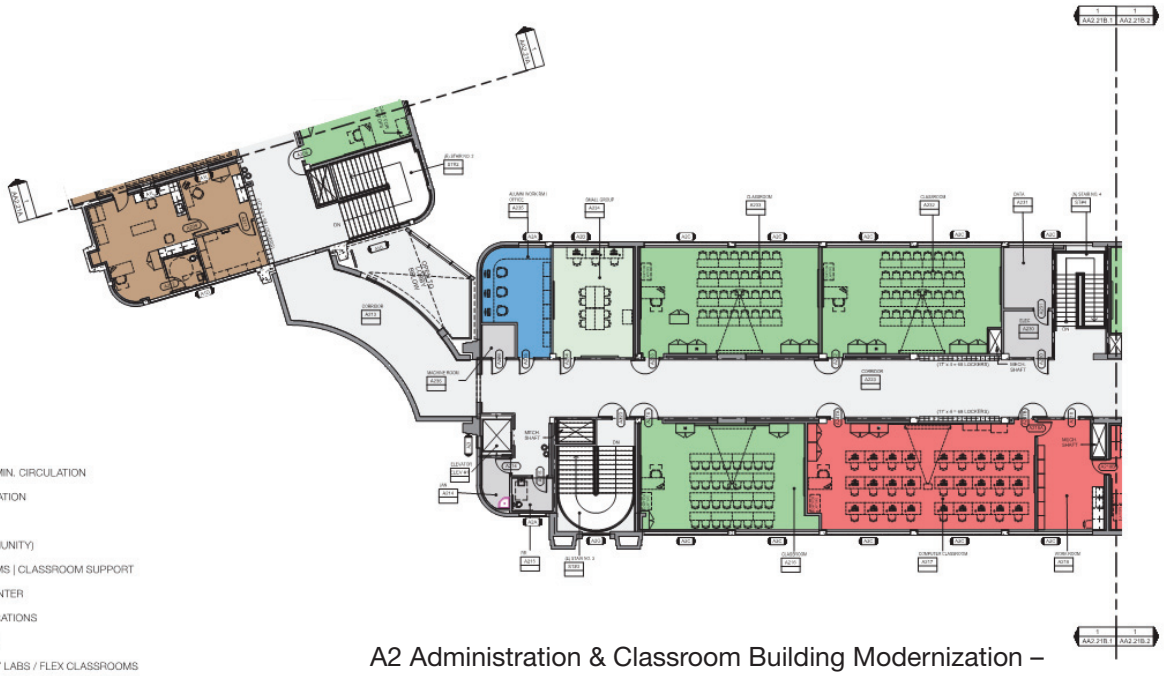
D160789.01

SOURCE: HMC Architects

Thomas Jefferson High School Comprehensive Modernization Project

Figure 4
Building 4 (Administration) Modernization – First Floor

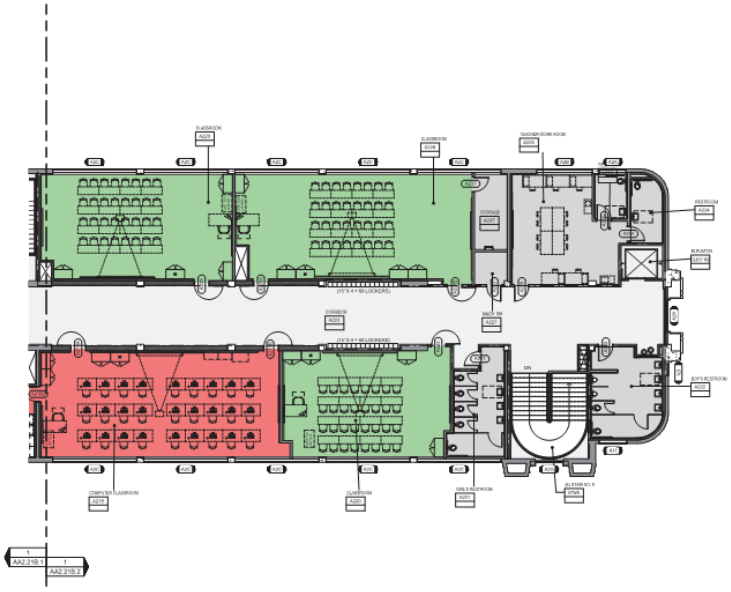
ESA



LEGEND

- ADMINISTRATION | ADMIN. CIRCULATION
- ADULT ED. ADMINISTRATION
- HEALTH - CAMPUS
- HEALTH CLINIC (COMMUNITY)
- GENERAL CLASSROOMS | CLASSROOM SUPPORT
- LIBRARY / CAREER CENTER
- MAINTENANCE & OPERATIONS
- PARENT / COMMUNITY
- PATHWAY / SPECIALITY LABS / FLEX CLASSROOMS
- SCIENCE LABS
- SPECIAL EDUCATION
- SHARED EDUCATIONAL AREAS - PERFORMING ARTS
- SHARED EDUCATIONAL AREAS - VISUAL ARTS
- PHYSICAL EDUCATION / ATHLETICS
- SUPPORT SERVICES / SPACE
- CIRCULATION

A2 Administration & Classroom Building Modernization – Second Floor Plan



LEGEND

- ADMINISTRATION | ADMIN. CIRCULATION
- ADULT ED. ADMINISTRATION
- HEALTH - CAMPUS
- HEALTH CLINIC (COMMUNITY)
- GENERAL CLASSROOMS | CLASSROOM SUPPORT
- LIBRARY / CAREER CENTER
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- SHARED EDUCATIONAL AREAS - PERFORMING ARTS
- SHARED EDUCATIONAL AREAS - VISUAL ARTS
- PHYSICAL EDUCATION / ATHLETICS
- SUPPORT SERVICES / SPACE
- CIRCULATION

A2 Administration & Classroom Building Modernization – Second Floor Plan

D160789.01

SOURCE: HMC Architects

Thomas Jefferson High School Comprehensive Modernization Project

Figure 5
Building 4 (Administration) Modernization – Second Floor

ESA

- Portions of the terrazzo floors on the first floor would require removal and abatement during the seismic upgrades. Prior to removal, the existing terrazzo floor would be photographed, and each color would be tested. Samples of the flooring would be removed in 2'-0" sections for the purposes of comparing/matching to samples for replication purposes. These pieces would be replicated to match the existing design, color, texture, and other qualities, such as materials to the extent feasible, and

- No changes would occur to the curved concrete stairwells, with exception of added code compliant handrails.

2.2.1.2 Auditorium (Building 2)

The exterior CDFs of the Auditorium (Building 2) would be retained and rehabilitated. The proposed exterior modifications are shown in **Figure 6** and include:

- ADA access improvements include: alteration of the primary entrance by adding a plinth between Buildings 1 and 2 and potential alteration of existing north exterior ramp and

- Restoration of existing windows to the original design and mitigation of the dashed plaster as required for abatement.

Interior Project modifications would include:

- ADA access improvements may include: replacing the stairs with a new wheelchair lift at the front of the stage closest to the south wall, installing a new elevator in the lobby/foyer at the southeast corner for access to the 2nd floor, remodeling of restrooms to ensure that they are ADA-compliant and California Building Code-compliant facilities to allow single-occupant and gender-neutral single occupant use, and the possible addition of ramps along the north wall and

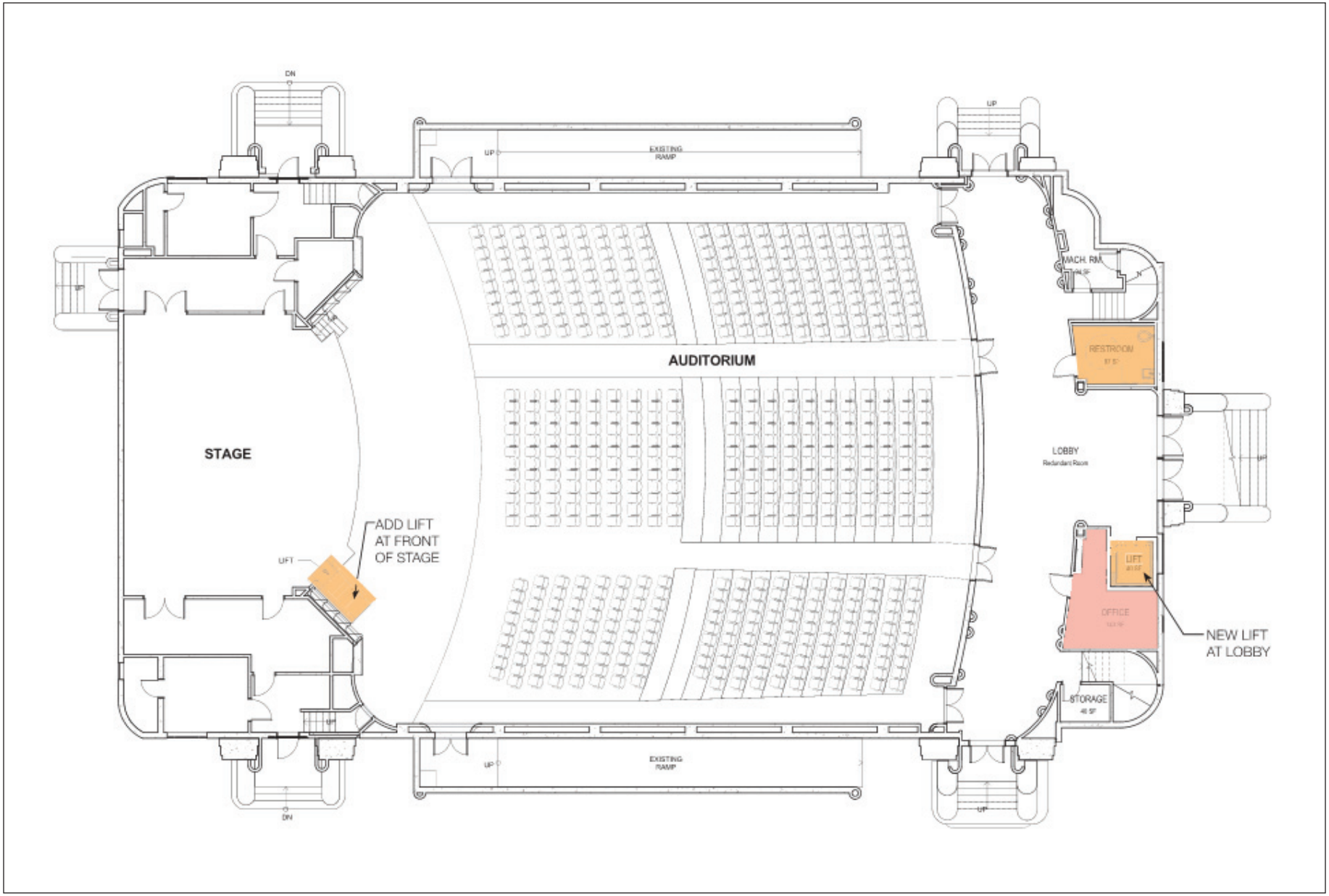
- Abatement of the terrazzo and ceiling, if necessary, and the conversion of the multi-accommodation restrooms to single occupant gender neutral single occupant restrooms.

2.2.1.3 Cafeteria (Building 3)

The exterior CDFs of the Cafeteria (Building 3) would be retained and rehabilitated. The proposed modifications include:

- Seismic upgrades are required in this building and would entail strengthening the building's structure (i.e., providing anchorage, strengthening an exit door, and installing a roof diaphragm) through the ceiling in order to avoid or to minimally altering the building and

- The exterior of the building would not be altered (it would only be painted along with all of the other remaining buildings).



D160789.01

SOURCE: HMC Architects

Thomas Jefferson High School Comprehensive Modernization Project

Figure 6
Building 2 (Auditorium) Modernization – First Floor

ESA

2.2.2 Site Upgrades and Landscape Design

Site upgrades that would be completed throughout the campus include: site-wide infrastructure improvements, including plumbing, electrical and storm drain; site-wide upgrades to remove identified and prioritized barriers to program accessibility; ADA improvements; landscape, hardscape, and exterior paint; and new perimeter fencing.

The overall geometry and existing relationships between the courtyard; Buildings 1, 2, 3, and 4; the streets at the north end of campus; and the passageways and drinking fountains will remain intact. An alteration is required to the path of travel in the courtyard between Buildings 1, 2, and 4 to accommodate the addition of the raised plinth including a ramp. Otherwise major changes are not proposed to the configuration of the hardscape around Buildings 1, 2, 3, and 4. The historic landscaping configuration fronting 41st Street and Compton Avenue would be retained, preserved, and restored to its original condition where feasible.

The proposed Project design includes paving lines oriented to lead from the historic campus entry - between Administration Building (Building 1) and Main Classroom Building (Building 4), to extend north across campus between the new Athletics Building and new Classroom Building effectively framing the view toward downtown Los Angeles. These paving lines and siting of the new Athletics Building, Classroom Building, and shade shelter are presented in the rendering included in **Figures 7 and 8**. The flowing nature of the landscape design and pathways beyond the historic quad connect destination points across the campus. These pathways address existing and expected circulation patterns. Further, they support, create, and activate a variety of social and academic outdoor spaces, from small group pockets, to classroom size seating areas, to larger gathering areas like the main lunch canopy and amphitheater. While much of the site design is progressive, important design elements of the past would be preserved and used to inspire new design elements. For instance, the existing historic drinking fountains would be preserved and highlighted in the design.

2.2.3 Proposed Demolition and New Construction

In order to construct new buildings and structures, the Project would include demolition of the following buildings and structures: Gymnasium Buildings (Buildings 6 and 7)[4], Mechanical Arts Building (Building 11), Industrial Arts Building (Building 21), Metal Shop (Building 25), Power House (Building 8), Music Building (Building 12), Home Economics Building (Building 16) (previously called the Homemaking Building), Lunch Shelter (Building 10), Lunch Service Building (Building 9), and approximately 32 classrooms located in relocatable buildings at the northeast corner of the campus.

The Project would include construction of a new Athletics Building, Classroom Building, Lunch Pavilion/Shelter, Baseball/Softball Field with associated Maintenance & Operations Building and Tickets and Concessions Building, Tennis Courts, Hardcourts, Garden with Green House, storage containers, and parking areas (Figure 2).

[4] Practice and competitive gymnasium spaces (also referred to as the Girls' Gymnasium Building and Boys' Gymnasium Building respectively).

D160789.01

SOURCE: HMC Architects

Thomas Jefferson High School Comprehensive Modernization Project

Figure 7
Quad Rendering

ESA

D160789.01

SOURCE: HMC Architects

Thomas Jefferson High School Comprehensive Modernization Project

Figure 8
Rendering of Proposed Athletics Building

ESA

The new Athletics Building and Classroom Building, as well as a lunch pavilion, would be nearest to the contributing buildings of the potential Historic District and have been designed in a style inspired by the historic Streamline Moderne buildings. The proposed designs incorporate horizontal banding, soft edges, strong shadow lines, selective use of finish materials and color including plaster, use of ribbon windows, and flat roofs that ensure the new construction would be compatible yet distinctive from the historic buildings. The design of the Athletics Building (as shown on Figure 8) and Classroom Building represent this idea of "Movement & Measurement" as a series of simple yet powerful horizontal layered planes acting upon and responding to the site and building functions. These layers act as shading devices, create covering over stairs and outdoor gathering spaces, as well as help protect and identify significant entries. In addition to their function, these flowing forms create a strong connection between the existing historical architecture and new site design. The new construction would be articulated in plaster, fiber cement panels, metal panels, and perforated panels with custom imagery.

3. Regulatory Framework

Historical resources fall within the jurisdiction of the federal, State, and local designation programs. Federal laws provide the framework for the identification, and in certain instances, protection of historical resources. Additionally, State and local jurisdictions play active roles in the identification, documentation, and protection of such resources within their communities. The National Historic Preservation Act (NHPA) of 1966, as amended and the California Public Resources Code (PRC), Section 5024.1, are the primary federal and State laws and regulations governing the evaluation and significance of historical resources of national, State, regional, and local importance. Descriptions of the relevant laws and regulations that were considered in addition to the District's framework are presented below.

3.1 Federal

3.1.1 NHPA of 1966

The principal federal law addressing historic properties is the National Historic Preservation Act (NHPA), as amended (54 United States Code of Laws [USC] 300101 et seq.), and its implementing regulations (36 CFR Part 800). Section 106 requires a federal agency with jurisdiction over a proposed federal action (referred to as an "undertaking" under the NHPA) to take into account the effects of the undertaking on historic properties, and to provide the Advisory Council on Historic Preservation (ACHP) an opportunity to comment on the undertaking.

The term "historic properties" refers to "any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register" (36 CFR Part 800.16(l)(1)). The implementing regulations (36 CFR Part 800) describe the process for identifying and evaluating historic properties, for assessing the potential adverse effects of federal undertakings on historic properties, and seeking to develop measures to avoid, minimize, or mitigate adverse effects. The Section 106 process does not require the preservation of historic properties; instead, it is a procedural requirement mandating that federal agencies take into account effects to historic properties from an undertaking prior to approval.

The steps of the Section 106 process are accomplished through consultation with the State Historic Preservation Officer (SHPO), federally-recognized Indian tribes, local governments, and other interested parties. The goal of consultation is to identify potentially affected historic properties, assess effects to such properties, and seek ways to avoid, minimize, or mitigate any adverse effects on such properties. The agency also must provide an opportunity for public involvement (36 CFR 800.1(a)). Consultation with Indian tribes regarding issues related to Section 106 and other authorities (such as NEPA and Executive Order No. 13007) must recognize the government-to-government relationship between the Federal government and Indian tribes, as set forth in Executive Order 13175, 65 FR 87249 (Nov. 9, 2000), and Presidential Memorandum of Nov. 5, 2009.

3.1.2 National Register of Historic Places

The National Register of Historic Places (National Register) was established by the NHPA of 1966, as "an authoritative guide to be used by federal, State, and local governments, private groups and citizens to identify the Nation's historic resources and to indicate what properties should be considered for protection from destruction or impairment" (36 CFR 60.2) (U.S. Department of the Interior, 2002). The National Register recognizes a broad range of cultural resources that are significant at the national, State, and local levels and can include districts, buildings, structures, objects, prehistoric archaeological sites, historic-period archaeological sites, traditional cultural properties, and cultural landscapes. As noted above, a resource that is listed in or eligible for listing in the National Register is considered "historic property" under Section 106 of the NHPA.

To be eligible for listing in the National Register, a property must be significant in American history, architecture, archaeology, engineering, or culture. Properties of potential significance must meet one or more of the following four established criteria:

A. Are associated with events that have made a significant contribution to the broad patterns of our history;

B. Are associated with the lives of persons significant in our past;

C. Embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. Have yielded, or may be likely to yield, information important in prehistory or history.

In addition to meeting one or more of the criteria of significance, a property must have integrity. Integrity is defined as "the ability of a property to convey its significance" (U.S. Department of the Interior, 2002). The National Register recognizes seven qualities that, in various combinations, define integrity. The seven factors that define integrity are location, design, setting, materials, workmanship, feeling, and association. To retain historic integrity a property must possess several, and usually most, of these seven aspects. Thus, the retention of the specific aspects of integrity is paramount for a property to convey its significance.

Ordinarily religious properties, moved properties, birthplaces or graves, cemeteries, reconstructed properties, commemorative properties, and properties that have achieved significance within the past 50 years are not considered eligible for the National Register unless they meet at least one of the four significance criteria listed above and one of the Criteria Considerations (A-G), in addition to possessing integrity (U.S. Department of the Interior, 2002).

3.1.3 Secretary of the Interior's Standards

The Secretary of the Interior's Standards for the Treatment of Historic Properties (SOI Standards), codified at 36 Code of Federal Regulations (CFR) Section 67.7, are a series of concepts about maintaining, repairing, and replacing, as well as designing new additions or making alterations to historic buildings. The SOI Standards, in particular the SOI Standards for Rehabilitation, are intended as general guidance for work on all historic properties and are widely used and have been adopted at the Federal, State and local levels. The SOI Standards offer four distinct approaches to the treatment of historic properties and include guidelines for Preservation, Rehabilitation, Restoration and Reconstruction. The National Park Services describes the four treatment levels of potential treatment for a property:

- Preservation focuses on the maintenance and repair of existing historic materials and retention of a property's form as it has evolved over time.
- Rehabilitation acknowledges the need to alter or add to a historic property to meet continuing or changing uses while retaining the property's historic character.
- Restoration depicts a property at a particular period of time in its history, while removing evidence of other periods.
- Reconstruction re-creates vanished or non-surviving portions of a property for interpretive purposes.[5]

Each level of treatment has its own set of standards which guide the work in that treatment approach. Generally, in planning for anticipated work on a historic structure or property, one of the four treatment approaches is selected as the overall treatment approach.

In general, the SOI Standards for Rehabilitation are selected as the appropriate treatment approach for a historic property when alterations or additions are required to a property planned for new or continued use. The SOI Standards for Rehabilitation are as follows:

1. A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.

2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.

[5] National Park Service US Department of the Interior, "Four Approaches to the Treatment of Historic Properties," The Secretary of the Interior's Standards, https://www.nps.gov/tps/standards/four-treatments.htm, accessed July 31, 2017.

3. Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.

4. Changes to a property that have acquired historic significance in their own right will be retained and preserved.

5. Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.

6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.

7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.

8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.

9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.

10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.[6]

3.2 State

3.2.1 California Environmental Quality Act

CEQA is the principal statute governing environmental review of projects occurring in the State and is codified at *Public Resources Code (PRC) Section 21000 et seq.* CEQA requires lead agencies to determine if a proposed project would have a significant effect on the environment, including significant effects on historical or unique archaeological resources. Under CEQA (Section 21084.1), a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

The *CEQA Guidelines* (Title 14 California Code of Regulations [CCR] Section 15064.5) recognize that historical resources include: (1) a resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (California Register); (2) a resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the

6 National Park Service US Department of the Interior, "Rehabilitation as Treatment," The Secretary of the Interior's Standards, https://www.nps.gov/tps/standards/four-treatments/treatment-rehabilitation.htm, accessed July 31, 2017.

requirements of PRC Section 5024.1(g); and (3) any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California by the lead agency, provided the lead agency's determination is supported by substantial evidence in light of the whole record. The fact that a resource does not meet the three criteria outlined above does not preclude the lead agency from determining that the resource may be an historical resource as defined in PRC Sections 5020.1(j) or 5024.1.

If a lead agency determines that an archaeological site is a historical resource, the provisions of Section 21084.1 of CEQA and Section 15064.5 of the *CEQA Guidelines* apply. If an archaeological site does not meet the criteria for a historical resource contained in the *CEQA Guidelines*, then the site may be treated in accordance with the provisions of Section 21083, which is as a unique archaeological resource. As defined in Section 21083.2 of CEQA a "unique" archaeological resource is an archaeological artifact, object, or site, about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information;
- Has a special and particular quality such as being the oldest of its type or the best available example of its type; or,
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological site meets the criteria for a unique archaeological resource as defined in Section 21083.2, then the site is to be treated in accordance with the provisions of Section 21083.2, which states that if the lead agency determines that a project would have a significant effect on unique archaeological resources, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place (Section 21083.1(a)). If preservation in place is not feasible, mitigation measures shall be required. The *CEQA Guidelines* note that if an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment (*CEQA Guidelines* Section 15064.5(c)(4)).

A significant effect under CEQA would occur if a project results in a substantial adverse change in the significance of a historical resource as defined in *CEQA Guidelines* Section 15064.5(a). Substantial adverse change is defined as "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource would be materially impaired" (*CEQA Guidelines* Section 15064.5(b)(1)). According to *CEQA Guidelines* Section 15064.5(b)(2), the significance of a historical resource is materially impaired when a project demolishes or materially alters in an adverse manner those physical characteristics that:

A. Convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or

B. Account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in a historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

C. Convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a Lead Agency for purposes of CEQA.

In general, a project that complies with the SOI Standards (Weeks and Grimer, 1995) is considered to have mitigated its impacts to historical resources to a less-than-significant level (*CEQA Guidelines* Section 15064.5(b)(3)).

3.2.2 California Register of Historical Resources

The California Register of Historical Resources (California Register) is "an authoritative listing and guide to be used by State and local agencies, private groups, and citizens in identifying the existing historical resources of the State and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1[a]). The criteria for eligibility for the California Register are based upon National Register criteria (PRC Section 5024.1[b]).

To be eligible for the California Register, a prehistoric or historic-period property must be significant at the local, State, and/or federal level under one or more of the following four criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. Is associated with the lives of persons important in our past;
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. Has yielded, or may be likely to yield, information important in prehistory or history.

A resource eligible for the California Register must meet one of the criteria of significance described above, and retain enough of its historic character or appearance (integrity) to be recognizable as a historical resource and to convey the reason for its significance. It is possible that a historic resource may not retain sufficient integrity to meet the criteria for listing in the National Register, but it may still be eligible for listing in the California Register.

Additionally, the California Register consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The California Register automatically includes the following:

- California properties listed on the National Register and those formally determined eligible for the National Register;
- California Registered Historical Landmarks from No. 770 onward; and,
- Those California Points of Historical Interest that have been evaluated by the Office of Historic Preservation and have been recommended to the State Historical Commission for inclusion on the California Register.

Other resources that may be nominated to the California Register include:

- Historical resources with a significance rating of Category 3 through 5 (those properties identified as eligible for listing in the National Register, the California Register, and/or a local jurisdiction register);
- Individual historical resources;
- Historical resources contributing to historic districts; and,
- Historical resources designated or listed as local landmarks, or designated under any local ordinance, such as an historic preservation overlay zone.

3.2.3 California Historical Building Code

The California Historical Building Code (CHBC), as codified in Section 8 of the California Code of Regulations, Title 24, offers flexibility for code requirements and "requires enforcing agencies to accept solutions that are reasonably equivalent to the regular code (as defined in Chapter 8-2) when dealing with qualified historical buildings or properties."[7] The CHBC is intended to provide unique solutions for the preservation of qualified historical buildings or properties to promote sustainability, to provide access for persons with disabilities, to provide a cost –effective approach to preservation, and to provide for the reasonable safety of the occupants or users.

As defined in California Health and Safety Code Section 18955, historical buildings and properties qualifying for use of the CHBC include:

> *Any building, site, object, place, location, district or collection of structures, and their associated sites, deemed of importance to the history, architecture or culture of an area by an appropriate local, state or federal governmental jurisdiction. This shall include historical buildings or properties on, or determined eligible for, national, state or local historical registers or inventories, such as the National Register of Historic Places, California Register of Historical Resources, State Historical Landmarks, State Points of Historical Interest, and city or county*

[7] California Code of Regulations, Title 24, California Historical Building Code, Section 8-101.2. (Washington, DC: International Code Council, 2013): 1.

registers, inventories or surveys of historical or architecturally significant sites, places or landmarks.[8]

3.3 Local

3.3.1 City of Los Angeles

The City enacted a Cultural Heritage Ordinance in April 1962 which defines Historic-Cultural Monuments. According to the Cultural Heritage Ordinance, Historic-Cultural Monuments are sites, buildings, or structures of particular historic or cultural significance to the City in which the broad cultural, political, or social history of the nation, state, or City is reflected or exemplified, including sites and buildings associated with important personages or which embody certain distinguishing architectural characteristics and are associated with a notable architect. These Historic-Cultural Monuments (HCMs) are regulated by the City's Cultural Heritage Commission and the City Council.

3.3.1.1 Los Angeles Cultural Heritage Ordinance Eligibility Criteria

The Los Angeles City Council adopted the Cultural Heritage Ordinance in 1967 and amended it in 2007 (Los Angeles Administrative Code, Chapter 9, Division 22, Article 1, Section 22.171.7). The Cultural Heritage Ordinance establishes criteria for designating a local historical resource as an HCM. An HCM is any site (including significant trees or other plant life located on the site), building or structure of particular historic or cultural significance to the City, including historic structures or sites:

- In which the broad cultural, economic or social history of the nation, State or community is reflected or exemplified; or
- Which is identified with historic personages or with important events in the main currents of national, State or local history; or
- Which embodies the distinguishing characteristics of an architectural type specimen, inherently valuable for a study of a period, style or method of construction; or
- Which is a notable work of a master builder, designer, or architect whose individual genius influenced his or her age.

3.3.1.2 SurveyLA Eligibility Standards

SurveyLA was a citywide survey that identified and documented significant historic resources representing important themes in the City's history. The survey and resource evaluations were completed by consultant teams under contract to the City of Los Angeles and the supervision of the Office of Historic Resources (OHR). The program was managed by the OHR, which maintains a website for SurveyLA.[9] The field surveys covered the period from approximately 1850 to 1980 and included individual resources such as buildings, structures, objects, natural features and cultural landscapes as well as areas and districts (archaeological resources will be included in a future survey phase). Significant resources reflected important themes in the City's growth and

[8] California Code of Regulations, Title 24, California Historical Building Code, Section 8-101.2. (Washington, DC: International Code Council, 2013): 4.

[9] City of Los Angeles, Department of City Planning, Office of Historic Resources, *SurveyLA: Los Angeles Historic Resources Survey*, http://preservation.lacity.org/survey, accessed January 5, 2017.

development in various areas including architecture, city planning, social history, ethnic heritage, politics, industry, transportation, commerce, entertainment, and others. Field surveys, conducted from 2010-2017, were completed in three phases by Community Plan Area. All tools and methods developed for SurveyLA met state and federal professional standards for survey work.

Los Angeles' citywide Historic Context Statement (HCS) was designed for use by SurveyLA field surveyors and by all agencies, organizations, and professionals completing historic resources surveys in the City of Los Angeles. The context statement was organized using the Multiple Property Documentation (MPD) format developed by the National Park Service (NPS) for use in nominating properties related by theme to the National Register. This format provided a consistent framework for evaluating historic resources. It was adapted for local use to evaluate the eligibility of properties for city, state, and federal designation programs and to facilitate environmental review processes.[10] The HCS used Eligibility Standards to identify the character defining, associative features, and integrity aspects a property should retain to be a significant example of a type within a defined theme. Eligibility Standards also indicated the general geographic location, area of significance, applicable criteria, and period of significance associated with that type. These Eligibility Standards are guidelines based on knowledge of known significant examples of property types; properties do not need to meet all of them in order to be eligible.

3.3.1.3 LAUSD Applicable Standard Conditions of Approval

The Program EIR includes Standard Conditions of Approval (SCs)[11] for minimizing impacts to cultural resources in areas where future projects would be implemented under the SUP. Applicable SCs related to cultural resource impacts associated with the proposed Project are provided in **Table 1**, below.

TABLE 1
CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-CUL-1	Design Build Team to Include Qualified Historic Architect For campuses with qualifying historical resources under CEQA, the Design team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as Project plans progress, with the Secretary of the Interior's Standards and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2). For projects involving structural upgrades to historic resources, the Design team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated project-level experience in Historic Preservation. The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards.

[10] City of Los Angeles, Department of City Planning, Office of Historic Resources, *Guide for Professionals Using the Historic Context Statement for Property Evaluations*, http://preservation.lacity.org/sites/default/files/Guide%20for%20Professionals%20Using%20the%20Historic%20Context%20Statement_Jan%202016_0.pdf, accessed January 5, 2017.

[11] The Standard Conditions of Approval have been updated since the adoption of the 2015 version in order to incorporate and reflect changes in the recent laws, regulations, and the Los Angeles Unified School District's standard policies, practices, and specifications.

TABLE 1
CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
SC-CUL-2	Role of Historic Architect on Design Team The tasks of the Historic Architect on the Design team shall include (but not necessarily be limited to) the following: 1. The Historic Architect shall work with the Design team and LAUSD to ensure that Project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The Historic Architect shall work with the Design team throughout the design process to develop Project options that facilitate compliance with the applicable historic preservation standards.
SC-CUL-2 (cont.)	2. For new construction, the Historic Architect shall work with the Design team and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus. 3. For modernization and upgrade projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design team and LAUSD to ensure that specifications for design and implementation of projects comply with the applicable historic preservation standards. 4. The Historic Architect shall participate in design team meetings through all phases of the Project through 100 percent construction drawings, pre-construction, and construction phases. 5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal Project components and treatment approaches comply with applicable historic preservation standards, including the Secretary of the Interior's Standards for the Treatment of Historic Properties and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. The memos will be reviewed by LAUSD and incorporated into the Mitigation Monitoring and Reporting Plan (MMRP) for the Project. 6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources. 7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring restoration, removal, or on site storage. This shall include detailed instructions on maintaining and protecting in place relevant features. 8. The Design team and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process.
SC-CUL-3	School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools. LAUSD has adopted policies and guidelines that apply to projects involving historic resources. The Design team and Historic Architect shall apply these guidelines, which include the LAUSD School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and upgrade/modernization projects. In keeping with the district's adopted policies and goals, LAUSD shall re-use rather than destroy historical resources where feasible. LAUSD shall follow the guidelines outlined in these documents to the maximum extent practicable when planning and implementing projects and adjacent new construction involving historical resources. General guidelines shall include: • Retain and preserve the historic character of buildings, structures, landscapes, and site features that are historically significant. • Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match in materials and appearance. • Avoid removing, obscuring, or destroying character-defining features and materials. • Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity.

TABLE 1
CULTURAL RESOURCES STANDARD CONDITIONS OF APPROVAL

Applicable SCs	Description
	• Conceal reinforcement required for structural stability or the installation of life safety or mechanical systems. • Undertake surface cleaning, preparation of surfaces, and other projects involving character-defining features using the least invasive, gentlest means possible. Avoid sandblasting and chemical treatments.
SC-CUL-4	Prior to demolition or mothballing activities, LAUSD shall retain a professional architectural photographer and a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to prepare HABS-like documentation for the historical resources slated for demolition. The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for demolition. Documentation prepared for the package will draw upon primary- and secondary-source research and available studies previously prepared for the Project. Measured drawings shall not be required for the Project. The specifications for the HABS-like package follow: Photographs: Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context photographs for the campus and adjacent setting. Photographs will be taken of interior and exterior features of the buildings using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be printed in black and white on archival film paper and also provided in electronic format. Descriptive and Historic Narrative: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate. Historic Documentation Package Submittal: The draft package will be assembled by the historian or architectural historian and submitted to LAUSD for review and comment. After final approval, one hard-copy set of the package will be prepared as follows: Photographs will be individually labeled and stored in individual acid-free sleeves. The remaining components of the historic documentation package (site map, photo index, historic narrative, and additional data) will be printed on archival bond, acid-free paper. Upon completion of the descriptive and historic narrative, all materials will be compiled in electronic format and presented to LAUSD for review and approval. Upon approval, one hard-copy version of the historic documentation package will be prepared and submitted to LAUSD. The historian or architectural historian shall offer a hardcopy package and compiled, electronic version of the final package to the Los Angeles Public Library (Central Library), Los Angeles Historical Society, and the South Central Coastal Information Center, to make available to researchers.
SC-CUL-5	LAUSD, consistent with Education Code Section 17540, shall offer to sell any useful features of the school building (e.g., the school bell, chalkboards, lockers) that do not contain hazardous materials for use or display, if features are not retained by LAUSD for reuse or display.
SC-CUL-6	LAUSD, consistent with Education Code Section 17545, shall offer for sale any remaining functional and defining features and building materials from the buildings. These materials could include doors, windows, siding, stones, lighting, doorknobs, hinges, cabinets, and appliances, among others. They shall be made available to the public for sale and reuse, if features are not retained by LAUSD for reuse or display.

4. Methods

4.1 Literature Review

4.1.1 SCCIC Records Search

A records search for the Project was conducted on January 25, 2016 at the California Historic Resources Inventory System (CHRIS) South Central Coastal Information Center (SCCIC) housed at California State University, Fullerton.[12] The SCCIC records search included a review of all recorded historic architectural site sites within a quarter-mile radius of the Project, as well as a review of cultural resource reports on file. In addition, to supplement the SCCIC records search, the California Points of Historical Interest (PHI), the California Historical Landmarks (CHL), the California Register, the National Register, and the California State Historic Resources Inventory (HRI) listings were reviewed for properties within or adjacent to the Project Site. The results of the records search are presented in Chapter 6.

4.1.2 Additional Research

Additional research included a review of the *Los Angeles Times* online newspaper database and photo collections accessed through, ProQuest Research Library and Los Angeles Public Library images. ESA also reviewed LAUSD's collection of historical plans on file for the campus. The results of this additional research have been incorporated into Chapter 5, Historic Setting and Context, of this report. A review of historic maps and aerial photographs was also conducted, and the results of this research are provided in the following section.

4.1.3 Historic Map and Aerial Review

Additional archival research included a review of historic aerial photographs from 1948, 1952, 1964, 1980, 1989, and 1994;[13] historic topographic maps from 1896, 1900, 1902, and 1921;[14] and Los Angeles Public Library archives. Archival research indicates that the Project Site was the location of the "Old Coliseum" or "Stadium East Grounds" prior to the construction of the original school buildings in 1917.[15] The grounds held an amphitheater capable of seating about 20,000 to 25,000 individuals. The stadium appears to have been first erected in 1913[16] and modified or re-configured in 1914 or 1915.[17] It was used to host rodeos,[18] charity events,[19] demonstrations, plays and filming,[20] and pageants.[21] The bullfighting scene from the 1915 movie *Carmen*, directed by

12 SCCIC File No. 15983.2090

13 NETR Online, 2016. Historic Aerials from 1948, 1952, 1964, 1980, 1989, and 1994. Available: http://www.historicaerials.com/, accessed February 22, 2016.

14 U.S. Geologic Survey, 2016. The National Map: Historical Topographic Collection. Available: http://nationalmap.gov/historical/index.html accessed on February 22, 2016.

15 *Los Angeles Times*, "Magnificent Educational Group to be Built in Southeast Los Angeles," (July 4, 1915): V1.

16 *Los Angeles Times*, "Two Hundred Riders to Appear in Rodeo Stunts," (February 6, 1913): III3.

17 *Los Angeles Times*, "Weld Old West with the New," (December 11, 1914): III2.

18 *Los Angeles Times*, "Rodeo Plans Now Complete," (March 31, 1915): III3.

19 *Los Angeles Times*, "Sit Tight and Hold Your Hay," (March 17, 1813): II2.

20 *Los Angeles Times*, "Fair Youth in Gay Chariots," (June 2, 1915): II1.

21 *Los Angeles Times*, "Golden West as Pageant." (April 2, 1915): II2.

Cecil B. de Mille, was filmed at the stadium with the audience serving as the spectators in the stands.[22] In 1915, the stadium was used to host events designed to entertain tourists traveling between the Panama-California Exposition in San Diego and the Panama-Pacific International Exposition in San Francisco.[23] Later in 1915, the Project Site was identified as the location of the future Jefferson HS. The original school plans included classics, science, manual arts, administration, and gymnasium buildings.[24] As evident on a Sanborn Fire Insurance Map from 1922,[25] a substantial part of the grounds were used for agricultural and horticultural activities in the early days of the school's history.[26] The original school buildings were severely damaged by the 1933 Long Beach Earthquake and the majority of the original buildings were demolished when the school was reconstructed in 1936.

4.2 Historic Resources Survey

A historic architectural resources survey of the Jefferson HS was conducted by ESA architectural historians, Margarita Jerabek, Ph.D., and Amanda Kainer, M.S., on May 22, 2015 as part of the architectural analysis for the CDFM.[27] Detailed notes and digital photographs were taken and the survey work utilized the survey methodology of the State Office of Historic Preservation.

5. Historic Setting and Context

The historic context developed below presents the historical and architectural background of LAUSD and Jefferson HS. Historical themes discussed below that are associated with the establishment, development, and use of Jefferson HS include the following: LAUSD- Founding Years (1870s-1909); LAUSD-Pre-1933 Long Beach Earthquake School Plants (1910-1933); LAUSD- Post 1933 Long Beach Earthquake Schools (1933-1945); and Streamline Moderne Style (1934-1945).

5.1 LAUSD: Founding Years (1870s-1909)

The Los Angeles City School District was founded in 1872, shortly before the massive increase in Southern California's population in the 1880s. The boom was brought on by the completion of the transcontinental railroad and the rampant land speculation that accompanied it. The population of Los Angeles jumped from 10,000 to 100,000 within the span of two decades between 1880 and 1900. By 1910, the population reached 320,000. Such extraordinary growth led to a number of problems in the new school district. These included: overcrowding, no uniform curriculum, wildly disparate education levels of incoming students, and a severe lack of funding. Just before the turn-of-the-century, the District was finally granted the authority to sell bonds and was able to raise $200,000 for a desperately needed new building campaign. Through a series of these campaigns,

22 *Los Angeles Times*, "Bullfight Scene From 'Carmen' Will Be Unique," (July 9, 1915): III4

23 *Los Angeles Times*, "Los Angeles Fully Prepared," (April 11, 1915): II1

24 *Los Angeles Times*, "Jefferson 'High' to Cost Quarter-Million," (July 4, 2015): V1.

25 Sanborn Fire Insurance Map, 1922. Vol. 4, Sheet 499j. Document on file at Los Angeles Public Library.

26 Sanborn Fire Insurance Map, 1922. Vol. 4, Sheet 499j. Document on file at Los Angeles Public Library.

27 PCR Services Corp. "Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California, 90011." July 28, 2015.

LAUSD was able to construct modern school facilities representative of the new, progressive education movement sweeping through the United States during this period. Los Angeles took great pride in its schools, as residents saw their new facilities and modern teaching methods as part of the city's urban development that helped create a city that could rival San Francisco.[28]

5.2 LAUSD: Pre-1933 Long Beach Earthquake School Plants (1910-1933)

The early 20th century was an important period of development for the Los Angeles area. In 1913, the Los Angeles Aqueduct was opened, creating easier access to water for residents while the burgeoning film industry boosted the economy. In the realm of architecture, the University of Southern California began to confer Southern California's first professional degrees in architecture in 1925, establishing Los Angeles as a center of architecture in the region. During this period, the American education system was profoundly influenced by the Progressive Education Movement. This movement brought sweeping change to education and educational facilities around the country. During this time, educators moved away from the authoritarian methods of their predecessors and placed greater emphasis on the teaching of abstract concepts and real life skills. Additionally, the one-size-fits-all mentality of the previous era gave way to a new focus on the needs of the individual student and transformed public schools into centers of community. As the educational method in America changed, the built environment of educational facilities also began to shift to better accommodate the new style of teaching. The writings of John J. Donovan, a graduate of Massachusetts Institute of Technology who later practiced architecture in Oakland, California, were especially influential during this time. Donovan's book, School Architecture: Principles and Practices, was published in 1921 and widely read by architects. Donovan discouraged monumental school buildings, focusing instead on simple and functional designs with low massing, outdoor spaces, and regional or revival styles.[29]

During the 1920s, Southern California was experiencing an unprecedented population boom. Los Angeles County, for example, had experienced an increase of 133.2% in population from the previous decade. Grammar schools in particular were becoming overcrowded. These second-generation school buildings (1910-1933) were of masonry; brick was a popular structural and decorative cladding material, as were hollow clay tile and concrete, the latter often manipulated to resemble stone or other materials. Most often two stories in height, second generation schools were less fortress-like although an institutional appearance was usually maintained. New styles were introduced, including the Romanesque Revival, Italian Renaissance Revival, Spanish Colonial Revival, and Collegiate Gothic Revival. As a rule, the school initially would be planned as a single building, with spaces allocated for standardized classrooms; special kindergarten rooms with toilets *en suite*; principal's and vice principal's offices; and boys' and girls' toilet rooms. Rooms were arrayed off of double-loaded corridors in the most common arrangement, establishing a linear organization to building plans that had been missing in earlier plants. During this period, designers were increasingly concerned with the provision of natural light and fresh air, and as a consequence,

[28] Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (March 2014): 23-28.

[29] Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (March 2014): 29-35.

another signature element of school design became a regular feature: the repetition of bays of windows often stacked three high. Buildings were either massed as single rectangular unit or embellished with wings set perpendicular to the main body of the building, frequently enclosing, all or in part, a courtyard space. Usually auditoriums, or cafeterias if provided, would be located in a wing. Gymnasiums, introduced at the junior high and senior high levels, were housed in separate buildings of more utilitarian design. Similarly, shops were often located in industrial-like buildings, provided with large spaces and open truss roofs.

5.3 LAUSD: Post-1933 Long Beach Earthquake Schools (1933-1945)

Although the Great Depression and World War II brought a number of challenges to the District, the schools constructed and reconstructed during the post-earthquake period laid the groundwork for the modern school designs prevalent in the Postwar era. Modernism was still in its early days, but the driving principles of the Modern design ethos had already begun to gain ground in school architecture, beginning in the late 1920s and continued through World War II. Revival styles, so popular in the early decades of the 20th century, were largely eschewed in favor of simple, purpose-driven architecture. New emphasis was placed on honesty in structure and materials, and the function of the building superseded stylistic considerations. Early examples of this type of design include Richard Neutra's Corona Bell Elementary School and Ralph Waldo Emerson High School, both located in Los Angeles. Both of Neutra's designs created an integration of indoor and outdoor spaces, providing light, ventilation, and a sense of freedom within the classroom. Another highly influential school type developed during this period was the finger-plan, created by the firm of Franklin & Kump for Acalenes Union High School outside of San Francisco. The finger-plan, based in modular elements, became popular in the Postwar years for its easy construction and expansion. Additionally, this plan type provided excellent natural light, ventilation, and access to outdoor spaces for students.

This kind of experimentation in school architecture, which didn't take a firm hold until after the end of World War II, was partly possibly due to the Long Beach Earthquake in March of 1933. The 6.5 magnitude quake destroyed 40 unreinforced masonry schools within the Los Angeles City School District, and damaged many exterior elements on other school facilities. Many parapets, chimneys, and exterior ornaments were removed either due to damage or for fear they would fall. Indeed, the lack of ornament in Southern California architecture in the 20th century was largely due to concerns about applied ornament falling and causing injuries during an earthquake. Shortly after the disaster, the Field Act was passed, which improved the building codes to insure new construction had better resistance to seismic activity. Many of the new requirements were coincidentally in-line with emerging design principles for educational buildings, such as open plans and single-story structures. An insistence on regional appropriateness remained, but ornament, and therefore many revival styles, was no longer a necessary or desirable part of design.

The forces of depression and war also brought funding to the District, with the Public Works Administration (PWA, later the Works Progress Administration) providing $13 million for schools in Southern California. The PWA funded 70% of all newly constructed schools nationwide in the 1930s. Monetary restrictions only encouraged the move away from the ornate Beaux-Arts

Classicism and revival styles, and the PWA building efforts ushered in the era of the Streamline Moderne. World War II saw a restriction in building funds, but school were utilized for a variety of support activities. Among these was the National Defense Training (NDT) program, which pumped $400,000 into Los Angeles schools for vocational training related to the war effort. By 1942, Los Angeles had the largest NDT program in the country. A year after the war concluded a $75 million bond was issued, helping to facilitate a Postwar boom in Los Angeles school construction.[30]

5.4 Streamline Moderne Style (1934-1945)

Following the height of Art Deco in the early 1930s, the Streamline Moderne style was an economic and stylistic response to the ravaging effects of the Great Depression. A new style was needed to express optimism and a bright look toward the future. Streamline structures continued to suggest modern values of movement and rejection of historic precedents, but with far less opulence and more restraint than Art Deco of the late 1920s and early 1930s. Yet the Streamline Moderne differed from the "High Art Modern Architecture" of the early 1930s in that it "continued to regard design as 'styling' and that architecture should represent or perform as an image rather than be a used as a space to radically change one's everyday life. The boosters of Streamline Moderne argued that their purpose was not to create an architecture that functioned in the same way as the ocean liner, airplane, or locomotive; rather, the buildings would symbolize those things and therefore remind one of the 'modern' future."[31] Streamline Moderne architecture took its cue from the emerging field of industrial design and borrowed imagery from transportation, in particular, the ocean liner.

Popular between 1934 and 1945, CDFs of Streamline Moderne style include horizontally-oriented masses, flat rooflines with coping or flat parapets, smooth stucco or concrete exteriors, relatively unadorned and unornamented surfaces, curved end walls and corners, glass block and porthole windows sometimes used, windows "punched" into walls, flat canopies over entrances, pipe railings used along staircases and balconies, grooved moldings and stringcourses, and steel sash windows.

5.5 LAUSD and the Civil Rights Movement (1954-1980)

In 1968, LAUSD students in East Los Angeles staged a series of school strikes popularly known as the "East L.A. Blowouts."[32] From March 1 to March 8, 1968, approximately 15,000 students walked out of classes from Woodrow Wilson, Garfield, Abraham Lincoln, Theodore Roosevelt, Belmont, Venice and Jefferson high schools. The walkouts were the result of the collective efforts of Latin-American student organizing groups such as: the Brown Berets, United Mexican American Students (UMAS), and The Young Citizens for Community Action (YCAA); two local newspapers: La Raza and Inside Eastside; and Sal Castro, a Mexican-American educator at Lincoln

30 Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (March 2014): 49-70.

31 Kesling Patrick Pascal, *Modern Structures Popularizing Modern Design in Southern California 1934-1962* (Los Angeles: Balcony Press, 2002): 10.

32 KCET. Simpson, Kelly, 7 March 2012, "East L.A. Blowouts: Walking Out for Justice in the Classrooms." Available: https://www.kcet.org/shows/departures/east-la-blowouts-walking-out-for-justice-in-the-classrooms.

High School. These groups and leaders, along with local clergy, professionals and parents, formed the core of the Educational Issues Coordinating Committee (EICC), which served as the representation for the fight for equal student rights in the aftermath of the walkouts.[33]

On March 11, 1968, the LAUSD Board of Education held a special meeting where student body representatives from Garfield, Lincoln, Wilson, Belmont, Roosevelt, Jefferson, Hamilton, and Marshall high schools spoke before the Board and presented their list of demands. These students demanded an equal, qualitative, and culturally relevant education; specifically related to administrative processes, facilities, student rights, and overall operational concerns.[34]

Buildings and spaces demonstrating a direct association with the events of the East L.A. Blowouts are considered for review under this theme. The standards for eligibility for Criteria B/2 of the National and California registers under this theme include:[35] construction during the period of significance (i.e. constructed between 1954-1980); serving as the site of significant integration initiatives, challenges, or activities related to the Civil Rights Movement and school integration; directly reflecting the movement for equal access to schools and/or to employment opportunities in LAUSD schools; and having a well-established, long-term association with a figure who was significant in the Civil Rights Movement and school integration.

5.6 History of Thomas Jefferson High School

The Project Site was the location the location of the "Old Coliseum" or "Stadium East Grounds" prior to the construction of the original school buildings in 1917.[36] The grounds held an amphitheater capable of seating about 20,000 to 25,000 individuals. The stadium appears to have been first erected in 1913[37] and modified or re-configured in 1914 or 1915.[38] It was used to host rodeos,[39] charity events,[40] demonstrations, plays and filming,[41] and pageants.[42] The bullfighting scene from the 1915 movie *Carmen*, directed by Cecil B. de Mille, was filmed at the stadium with the audience serving as the spectators in the stands.[43] In 1915, the stadium was used to host events designed to entertain tourists traveling between the Panama-California Exposition in San Diego and the Panama-Pacific International Exposition in San Francisco.[44] Later in 1915, the Project Site was identified as the location of the future Jefferson HS.

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33 KCET. Simpson, Kelly, 7 March 2012, "East L.A. Blowouts: Walking Out for Justice in the Classrooms." Available: https://www.kcet.org/shows/departures/east-la-blowouts-walking-out-for-justice-in-the-classrooms.

34 KCET. Simpson, Kelly, 7 March 2012, "East L.A. Blowouts: Walking Out for Justice in the Classrooms." Available: https://www.kcet.org/shows/departures/east-la-blowouts-walking-out-for-justice-in-the-classrooms.

35 Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (March 2014).

36 *Los Angeles Times*, "Magnificent Educational Group to be Built in Southeast Los Angeles," (July 4, 1915): V1.

37 *Los Angeles Times*, "Two Hundred Riders to Appear in Rodeo Stunts," (February 6, 1913): III3.

38 *Los Angeles Times*, "Weld Old West with the New." (December 11, 1914): III2.

39 *Los Angeles Times*, "Rodeo Plans Now Complete," (March 31, 1915): III3.

40 *Los Angeles Times*, "Sit Tight and Hold Your Hay," (March 17, 1813): II2.

41 *Los Angeles Times*, "Fair Youth in Gay Chariots," (June 2, 1915): II1.

42 *Los Angeles Times*, "Golden West as Pageant." (April 2, 1915): II2.

43 *Los Angeles Times*, "Bullfight Scene From 'Carmen' Will Be Unique," (July 9, 1915): III4.

44 *Los Angeles Times*, "Los Angeles Fully Prepared," (April 11, 1915): II1.

Jefferson HS was initially constructed in 1917. That year the Agriculture Building (demolished) went up, followed by the Mechanical Arts Building (demolished) the next year.[45] In 1919, the first Cafeteria (demolished) was constructed.[46] The first three Renaissance Revival style buildings on campus were designed by architect Norman F. Marsh (**Figure 9** and **Figure 10**). A new Shop Building (demolished) was erected in 1922, followed by additional Agricultural Buildings (demolished) in 1927.[47] It appears that the final new addition to the campus prior to the Long Beach Earthquake was the construction of the Glass House (demolished) in 1930.[48]

SOURCE: Los Angeles Public Library

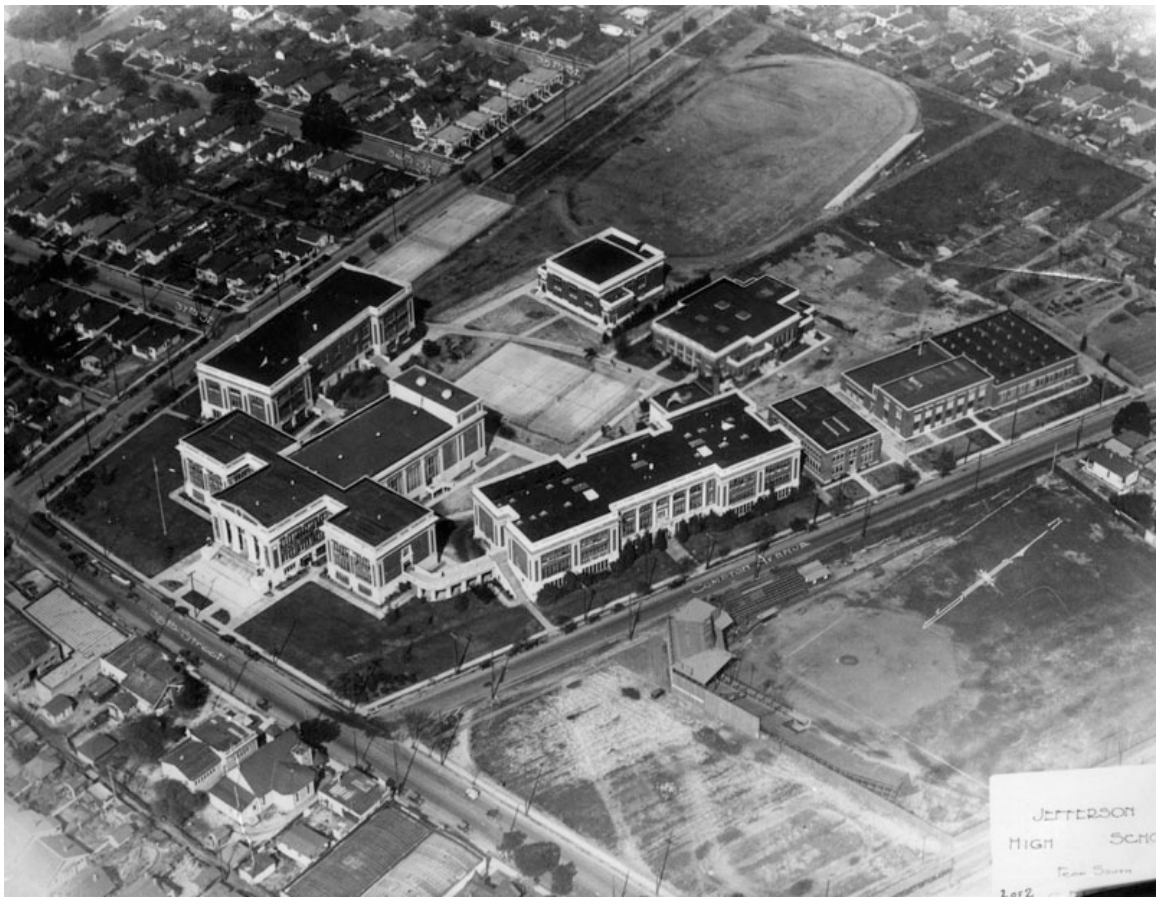
Figure 9
Administration Building at Jefferson HS, ca. 1920s

45 LAUSD Archival Drawings, 8714.03.000, Agriculture Building (January 1, 1917). 8714.04.000, Mechanical Arts Building (Demolished) (November 1, 1918).

46 LAUSD Drawing Archive -Vault, 8714.02.005, Boys Service Cafeteria (October 1, 1919).

47 LAUSD Drawing Archive -Vault, 8714.05.000, New Shop Building (May 1, 1922). 8714.08.000, Agriculture Buildings (April 1, 1927).

48 LAUSD Drawing Archive -Vault, 8714.00.013, Glass House (January 1, 1930).



SOURCE: Los Angeles Public Library

Figure 10
Aerial View of Jefferson HS, ca. 1920s

The campus was essentially rebuilt following the earthquake in 1933. Between 1935 and 1937 the campus was redesigned in the Streamline Moderne style by architect Stiles O. Clements (1883-1966), as shown in **Figure 11** and **Figure 12**. Due to the new policies implemented by the City Board of Education resulting from the earthquake, the new buildings were two-stories in height and constructed with structural steel and reinforced concrete and finished with concrete plaster. By 1935, plans were prepared for a new Classroom Building (Building 4), Cafeteria (Building 3), and Administrative Building (Building 1).[49] A new Auditorium (Building 2) was constructed in 1936, followed by a new Mechanical Arts Building (Building 11) in 1937.[50] The new Mechanical Arts Building (Building 11) was constructed onto the south elevation of the existing Mechanical Arts buildings constructed in 1910 and 1922.

[49] LAUSD Drawing Archive -Vault, LAUSD Archival Drawings, 8714.09.000, New Academic, Cafeteria & Administration Buildings (July 1, 1935).

[50] LAUSD Drawing Archive -Vault, 8714.10.000, New Assembly Hall Buildings (August 1, 1936). 8714.11.000, New Mechanical Arts Building (November 1, 1937).

SOURCE: Los Angeles Public Library

Figure 11
Primary Entrance and Administration Building of Jefferson HS, 1939

SOURCE: Los Angeles Public Library

Figure 12
Primary Entrance and Administration Building of Jefferson HS, 1939

Major construction projects appear to have largely halted during World War II, but resumed in the postwar years. In 1951, a new Music Building (Building 12) was erected.[51] In 1954, a Boys' Gymnasium (Building 6) was constructed followed by the Girls' Gymnasium Building (Building 7) two years later in 1956.[52] A new Industrial Arts Building (Building 21) was designed in 1958.[53] The original 1918 Mechanical Arts Building was demolished in 1959, and the same year the new Home Economics Building (Building 16) was built.[54]

Growth of the campus continued into the late 20th century. In 1963, a new Metal Shop Building (Building 25) was constructed.[55] A series of fires in the late 1970s and early 1980s caused damage to several buildings. In 1977, fire damage had to be repaired in the Home Economics Building (Building 16), and in 1981 fire damage was repaired in the Boys Gymnasium (Building 6).[56] Fire damage also occurred and was repaired in the Administration Building (Building 1), which was also modernized at during the same period.[57] The Administration (Building 1) and Classroom Building (Building 4) underwent reconstruction efforts in 1986.[58] The Cafeteria (Building 3), Music Building (Building 12) and Mechanical Arts Building (Building 11) were modernized in 1990.[59]

6. Identification of Historical Resources

6.1 Historical Resources in the Project Vicinity

The archival records search included a review of previously recorded historic architectural resources within a quarter-mile of the Project which may have views of the Project Site for the purpose of analyzing potential indirect impacts to such resources. The archival records search involved review of the SCCIC records search in addition to review of the National Register, California Register, HRI, SurveyLA, HCM, and HistoricPlacesLA.org databases and designation lists to find previously identified historical resources. As a result, ESA identified 10 previously surveyed historic architectural resources within a quarter-mile radius of the Project Site and are summarized below in **Table 2**. Of the 10 historic resources, one requires further evaluation (CHR status code of QQQ) and six have been found ineligible at the national level, but not evaluated at the state level (CHR status of 6Y). The Project Site is located within a dense, urban setting, with limited visibility and one resource (1477 East 41st Place) would have a direct view of the Project

51 LAUSD Drawing Archive -Vault, 8714.14.000, Music Building (March 1, 1951).

52 LAUSD Drawing Archive -Vault, 8714.15.000, Boys Gymnasium Building (April 1, 1954).
8714.20.000, Girls Physical Education Building (April 1, 1956).

53 LAUSD Drawing Archive -Vault, 8714.23.000, Industrial Arts Building (May 1, 1958).

54 LAUSD Drawing Archive -Vault, 8714.21.000, Demolition of the Old Mechanical Arts Building #3 (July 1, 1959).
8714.22.000, All-Purpose Homemaking Building (December 1, 1959).

55 LAUSD Drawing Archive -Vault, 8714.26.000, Metal Shop Building (August 1, 1963).

56 LAUSD Drawing Archive -Vault, 8714.31.000, Fire Damage Repairs to Homemaking Building (November 1, 1977).
8714.33.000, Fire Damage Repairs of Boys Gymnasium Building (May 1, 1981).

57 LAUSD Drawing Archive -Vault, 8714.34.000, Fire Damage Repairs & Modernization of Administration Building (December 1, 1983).

58 LAUSD Drawing Archive -Vault, 8714.36.000, Reconstruction of Administration/Academic Building (November 17, 1986).

59 LAUSD Drawing Archive -Vault, 8714.35.000, Modernization of Cafeteria, Music & Mechanical Arts Buildings (July 6, 1990).

Site. Furthermore, two historical resources (Palm Trees at Martin Luther King Jr. and 1221-1223 East 40th Place) would have indirect views of the Project Site.

TABLE 2
HISTORICAL RESOURCES LOCATED WITHIN THE ONE-QUARTER MILE RADIUS OF THE PROJECT SITE

Permanent No. (P-19-)	Trinomial (CA-LAN-)	Address	Description	CHR Status Code	Date Recorded	Direct or Indirect View
N/A	N/A	Palm Trees at Martin Luther King Jr. between Morgan and Compton	Mature Mexican Fan Palms associated with the development of the subdivision ca 1905. They are an excellent intact example of subdivision improvements during the early part of the 20th century of which very few remain.	5S3	3/11/2011	Indirect View
N/A	N/A	1515 E 33rd St	The Fredi Washington residence is a Craftsman style bungalow court constructed in 1930. Fredi Washington, a significant African American actress, singer, writer, and dancer, is reported to have resided at the property. SurveyLA stated further research was needed to confirm her association with this property.	QQQ	3/1/2012	None
19-173790	N/A	1253 E 35th St	Hipped Roof Cottage constructed in 1920.	6Y	1/26/1990	Indirect View
19-167174	N/A	1221-1223 East 40th Pl	Ralph J. Bunche House, a bungalow constructed in 1905, is listed on the National Register and LAHCM #159. The residence is significant for its association with Ralph J. Bunche, holder of a Novel Peace Prize and internal diplomat, who lived at the property for eight years.	1S, 5S1	1S (5/22/1978), 5S1 (7/27/1976)	Indirect
19-178273 and 19-173828	N/A	1247 E 41st St	American Foursquare constructed in1905.	7R, 6Y	7R (undated), 6Y (11/30/1990)	None
N/A	N/A	1286 E 41st St	Bungalow constructed in 1914.	6Y	1/31/2001	Indirect View
N/A	N/A	1477 E 41st St	Victorian, Vernacular Cottage constructed in 1903.	3S, 3CS, 5S3	March 2012	Direct
N/A	N/A	1220 E Martin Luther King Blvd	Hipped Roof Cottage constructed in 1905.	6Y	4/2/2002	Indirect View
N/A	19-174877	1232 E Martin Luther King Blvd	Hipped Roof Cottage constructed in 1907.	6Y	3/24/1994	Indirect View
N/A	N/A	1247 E Martin Luther King Blvd	Cottage constructed in 1921.	6Y	1/31/2002	Indirect View

NOTE:
See Table 4 for photos of the resources as well as a brief discussion of the baseline conditions and proposed change following Project.

Source: HRI (4/5/2012), SurveyLA: Southeast Los Angeles Survey (March 2012), OHR California Historical Landmarks, HistoricPlacesLA.org.

6.2 Historical Resources on the Project Site

During the Phase I Getty Survey conducted on March 15, 2002, Jefferson HS was recommended eligible for the National Register and California Register through survey evaluation and assigned CHR Status Codes of 3S (appears eligible for the National Register as an individual property through survey evaluation) and 3CS (appears eligible for the California Register as an individual property through survey evaluation).[60] Jefferson HS was evaluated again in 2004, as a result of Section 106 review, and formally determined eligible for the National Register through consensus with the SHPO, automatically listed in the California Register, and assigned a CHR Status Code of 2S2.[61] Lastly, Jefferson HS was re-evaluated by SurveyLA in March 2012 during the Office of Historic Resources' historic resources survey of the Southeast Los Angeles Community Plan Area (CPA), and was recommended as eligible for the national, State and local level as a historic resource and was assigned CHR Status Codes of 3S, 3CS, and 5S3 (appears to be individually eligible for local listing or designation through survey evaluation).[62]

6.2.1 Integrity Analysis

As previously discussed, the seven factors that define integrity are location, design, setting, materials, workmanship, feeling, and association. To retain historic integrity a property must possess several, and usually most, of these seven aspects. Thus, the retention of the specific aspects of integrity is paramount for a property to convey its significance. The following presents a list of known alterations to each of the contributing buildings and landscape followed by an analysis of integrity for the potential Historic District.

- Administrative Building (Building 1):
  - Alterations to this building include:
    - Majority of exterior doors replaced
    - Rear (North) Elevation includes service windows, rectangular canopy, and concrete stairs
    - Addition at rear elevation of lobby to accommodate elevator
    - Windows covered with metal security screens
- Auditorium (also Assembly Hall; Building 2):
  - Alterations to this building include:
    - Majority of exterior doors replaced
    - Some windows infilled
    - Signage on north wall of lobby and tiled-water fountain bays are non-original

60 Leslie J. Heumann, SAIC, DPR Primary Record Form for Thomas Jefferson High School (March 15, 2002).

61 Office of Historic Preservation Historic Resources Inventory, Directory of Properties in the Historic Property Data File for Los Angeles County (April 5, 2012): 325.
Jefferson HS (Property Number of 146101) was assigned a CHR status code of 2S2 as result of a historic resources survey (DOR-19-04-0019-0000) and project review (FEMA031024A) on March 16, 2004.

62 Galvin Preservation Associates, *Historic Resources Survey of Southeast Los Angeles: Historic Districts, and Multi-Property Resources*, Prepared for Office of Historic Resources, Department of City Planning (March 2012): 44-47, http://preservation.lacity.org/files/SELAAppendixCFinal3_12.pdf, accessed August 11, 2017.

- Cafeteria (Building 3):
  - Alterations to this building include:
    - Exterior appears to be re-stuccoed and re-painted
    - Windows covered with metal security screens
    - Roll-up metal service windows and concrete ramps with metal handrails)
    - Majority of exterior doors replaced
    - Various mechanical equipment attached to north elevation
- Classroom Building (Building 4):
  - Alterations to this building include:
    - Door opening infilled and doors removed and some windows are infilled
    - Concrete ramp
- Landscaping/Great Lawn:
  - No alterations to the landscaping have been identified
- Utility Building (Building 8):
  - Alterations to this building include:
    - Doors replaced, door and window openings infilled, structurally retrofit and braced with concrete on exterior, parapet extends above roofline
- Mechanical Arts Building (Building 11):
  - Alterations to this building include:
    - The utilitarian Classroom Building 16 attached to the north elevation of Building 11 is a non-contributing addition/building as the original mechanical arts buildings dating from 1910 and 1922 were removed
    - Numerous window bays infilled, windows covered by metal security screens
    - Exterior doors replaced

Location

Location is the place where the historic property was constructed or the place where the historic event took place. Integrity of location refers to whether the property has been moved or relocated since its construction. None of the contributing buildings, structures or landscape identified above have been moved; therefore, the potential Historic District retains integrity of location.

Design

Design is the composition of elements that constitute the form, plan, space, structure, and style of a property. As evident from the listed alterations above and the character-defining features analysis detailed below, the Administrative Building (Building 1), Auditorium (also Assembly Hall; Building 2), Cafeteria (Building 3), and Classroom Building (Building 4) have retained their original design; they have retained their original form, spatial relationships, and major architectural

elements that distinguish them as Streamline Moderne-style buildings. The landscaping associated with these buildings has also retained its design in that the spatial relationships between the landscaping between the streets and the Administrative Building (Building 1), Classroom Building (Building 4), and Auditorium (also Assembly Hall; Building 2) have remained the same. While the design of the Utility Building (Building 8) has been made compatible with the Streamline Moderne style through modification, it was constructed as part of the original 1920s campus (outside of the 1935-1937 period of significance) which was designed in the Renaissance Revival style. The spatial relationships that the Utility Building (Building 8) once had with the original campus are also gone. The Utility Building (Building 8) does not retain integrity of design. While the Mechanical Arts Building (Building 11) still retains Streamline Moderne architectural elements, such as the rounded corners and banding, the form has been disrupted by the addition of the Home Economics Building (Building 16) and views of the Mechanical Arts Building (Building 11) have been blocked by the addition of Music Building (Building 12) along Compton Avenue. The Mechanical Arts Building (Building 11) retains a fair amount of integrity of design, but in comparison to the other contributors within the potential Historic District, it is not considered the best example of the Streamline Moderne style. Overall, the potential Historic District retains a high level of integrity with regards to its design although the contributions of the building designs vary significantly with regards to the degree of their contribution; specifically, the Administrative Building (Building 1), Auditorium (also Assembly Hall; Building 2), Cafeteria (Building 3), and Classroom Building (Building 4) and the landscape are the most prominent contributors to the potential Historic District.

Setting

Setting is the physical environment of a historic property that illustrates the character of the place. The surrounding area has remained primarily residential; therefore, the potential Historic District retains integrity of setting.

Materials

Materials are the physical elements combined in a particular pattern or configuration to form the aid during a period in the past. As evident from the listed alterations above and the character-defining features analysis detailed below, the Administrative Building (Building 1), Auditorium (also Assembly Hall; Building 2), Cafeteria (Building 3), and Classroom Building (Building 4) have retained the majority of their original materials. Doors and windows are the most prominent features that have been replaced. The Utility Building (Building 8) and Mechanical Arts Building (Building 11) have been more extensively altered, resulting in the loss of original materials as listed in the alterations above. Overall, despite the exceptions, the potential Historic District retains integrity of materials.

Workmanship

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period of history. As evident from the listed alterations above and the character-defining features analysis detailed below, the Administrative Building (Building 1), Auditorium (also Assembly Hall; Building 2), Cafeteria (Building 3), and Classroom Building (Building 4) have retained the majority of their original materials and, as such, retain the workmanship of those elements. Doors and windows are the most prominent features that have been replaced. The Utility

Building (Building 8) and Mechanical Arts Building (Building 11) have been more extensively altered, resulting in the loss of original workmanship as listed in the alterations above. Overall, despite the exceptions, the potential Historic District retains integrity of workmanship.

Feeling

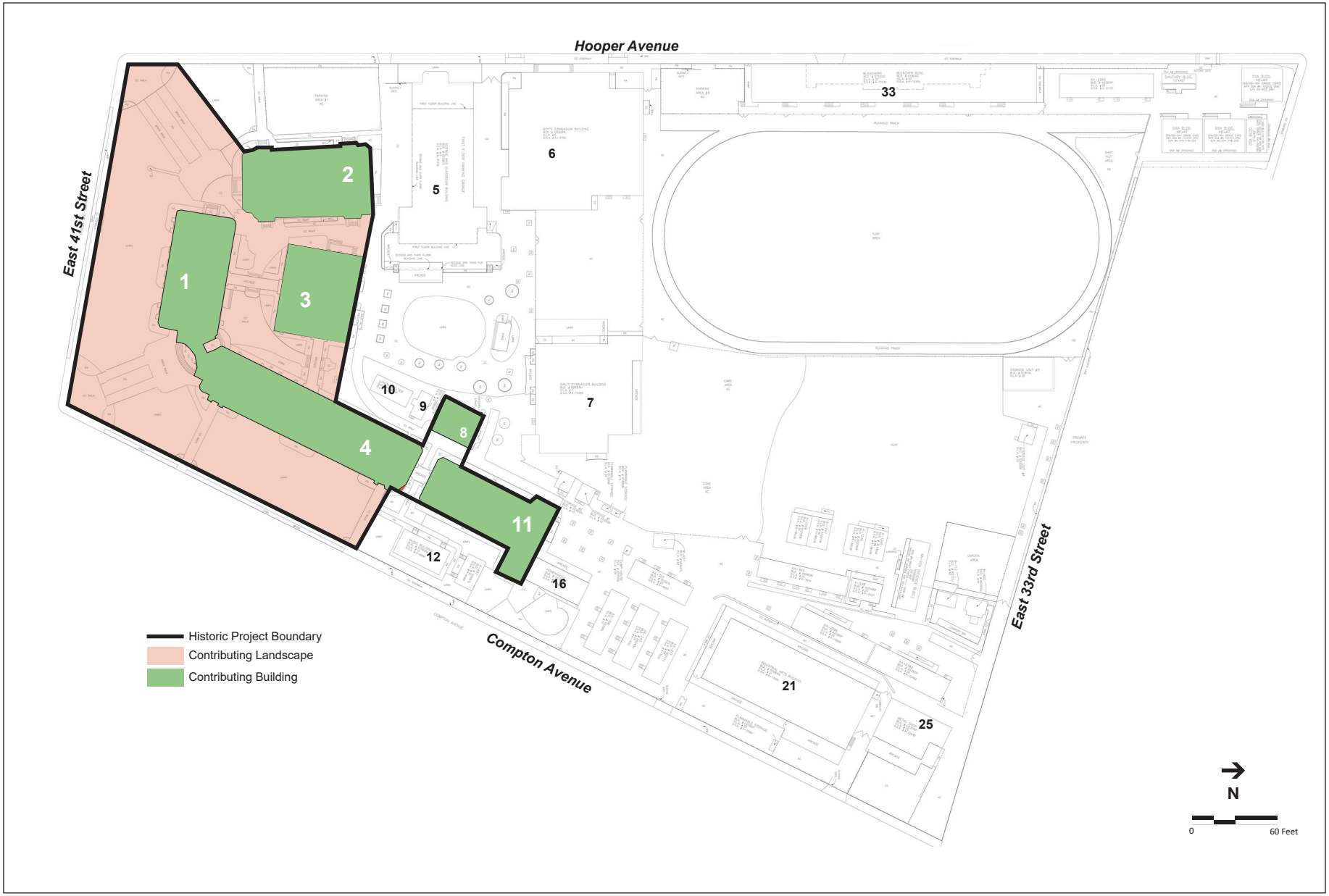
Feeling is the quality that a historic property has in evoking the aesthetic or historic sense of a past period of time. The level of integrity maintained with regards to the location, design, setting, materials, and workmanship all contribute to the integrity of feeling. Those familiar with the school in the 1930s would certainly recognize the school upon approaching the main entrance from the corner of East 41st Street and Compton Avenue or approaching the Auditorium from the corner of East 41st Street and Hooper Avenue. Administrative Building (Building 1), Auditorium (also Assembly Hall; Building 2), and Classroom Building (Building 4) and the intervening landscape create a prominent public façade that, in combination with the fact that the campus still performs its original function as a high school, certainly evokes its historic past. The Cafeteria (Building 3) and it spatial relationship to the Administrative Building (Building 1), Auditorium (also Assembly Hall; Building 2), and Classroom Building (Building 4) have also been maintained evoking a sense of past in this quad area. Alterations to the Mechanical Arts Building (Building 11), especially the addition of Building 16 to the north end and the construction of Building 12 along Compton Avenue, have disrupted the feeling on this portion of the campus. The Utility Building (Building 8), being a less prominent building with less architectural distinction and integrity, does not contribute to this feeling. Overall, the potential Historic District retains integrity of feeling.

Association

Association is the direct link between a property and the event or person for which the property is significant. Jefferson HS continues to function as a high school, and its association as a public institution of learning remains. Overall, the potential Historic District retains integrity of association.

6.3 Evaluation of Properties in the Area of Potential Impacts

Jefferson HS was formally determined eligible for the National Register through consensus with the SHPO and automatically listed on the California Register by virtue of a 2004 Section 106 evaluation. Additionally, a 2014 SurveyLA evaluation recommend Jefferson HS eligible under the local eligibility criteria. Jefferson HS is significant for its associations with the rebuilding of LAUSD Schools following the 1933 Long Beach earthquake and representing a significant work of master architect Stiles O. Clements and an exceptional example of the Streamline Moderne style applied to a high school campus. Furthermore, Jefferson HS retains enough integrity to express its historical and architectural associations from its period of significance (1935-1937), including integrity of setting, design, materials, workmanship, location, feeling, and association. A CDFs analysis of the campus was prepared in July 2015 utilizing the methodology established by the NPS and codified in Preservation Brief 17, as discussed below. The Administration Building (Building 1), Auditorium (Building 2), Cafeteria Building (Building 3), and Classroom Building (Building 4), Mechanical Arts Building (Building 11) and Utility Building (Power House; Building 8) were determined contributors to the potential Historic District, as well as the majority of the landscape at the south end of the campus around these buildings (see **Figure 13**). As such, Jefferson HS is considered a historical resource pursuant to CEQA.



D160789.01

SOURCE: Los Angeles Unified School Districts, 2002; ESA, 2018

Thomas Jefferson High School Comprehensive Modernization Project

Figure 13
Contributing Buildings and Landscapes

ESA

7. Character-Defining Features Analysis

In July 2015, a CDFM for Jefferson HS was undertaken. A summary of the CDFM is presented below. The character-defining features analysis included in the CDFM is a detailed summary of the visual character of Jefferson HS, including the site plan, landscape, buildings, architectural details, materials, finishes and interior spaces, that contribute to the eligibility of Jefferson HS as a historical resource. According to NPS Preservation Brief 17, *Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*:

> *Character refers to all those visual aspects and physical features that comprise the appearance of every historic building. Character-defining elements include the overall shape of the building, its materials, craftsmanship, decorative details, interior spaces and features, as well as the various aspects of its site and environment."*[63]

The NPS describes the visual characteristics that generally represent CDFs:

> *The major contributors to a building's overall character and embodied in the general aspects of its setting; the shape of the building; its roof and roof features, such as chimneys or cupolas; the various projections on the building, such as porches or bay windows; the recesses or voids in a building, such as open galleries, arcades, or recessed balconies; the openings for windows and doorways; and finally the various materials that contribute to a buildings character.*[64]

The approach to identifying visual character involved the examination of Jefferson HS from afar to understand its overall setting and architectural context; then moving up closer to investigate its materials and the craftsmanship and surface finishes; and lastly, going into and through the buildings to perceive those spaces, rooms and details that comprise its interior visual character.

As discussed above the landscapes and buildings at the Jefferson HS campus were originally classified as significant contributing and non-contributing with CDFs identified for each individual building and landscape.[65] To facilitate planning efforts, the resources were tiered in the CDFM as "primary" (significant), "secondary" (contributing), and "tertiary" (contributing). These descriptors were used at times to inform the design process. The character-defining buildings and landscapes are the physical representations of the historical resource (potential Historic District) and as such are the most important features to retain. The current effort has determined that the campus is better defined as a potential historic district and the buildings and landscape features have been broken

63 Lee H. Nelson, *Preservation Brief 17: Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*, National Park Service, September 1988, http://www.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm, accessed June 4, 2015.

64 Lee H. Nelson, *Preservation Brief 17: Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*, National Park Service ("NPS"), September 1988, http://www.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm, accessed June 4, 2015, pp. 1-2.

65 PCR Services Corp. "Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California, 90011." July 28, 2015.

out into contributing and non-contributing resources. These classifications align with the determinations in the CDFM.

Presented in **Table 3** is a summary of the contributing buildings and landscapes, as well as non-contributing buildings, to the potential Historic District dating from the period of significance that are the physical representations of the historical resource of the historical resource. Also, provided in Table 3 is the year the building was constructed and altered/repaired. The primary period of significance for Jefferson HS is between 1935 and 1937 when the campus was rebuilt in the Streamline Moderne Style. Contributing buildings and landscapes represent the original period of significance, are visually prominent, and retain high integrity. If a building, landscape, or feature is not listed below as contributing, it can be assumed the building, landscape, or feature is non-contributing. The site plan presented as **Figure 13**, on the following page, visually depicts the buildings and landscapes of Jefferson HS.

TABLE 3
JEFFERSON HS BUILDINGS

Current Building Name (Building Number)	Year Constructed	Alterations/Repairs	Historic Status
Administrative Building (Building 1)	1936	1981, 1986	Contributing
Auditorium (Building 2)	1936	N/A	Contributing
Cafeteria (Building 3)	1935	1990	Contributing
Classroom Building (Building 4)	1935	1986	Contributing
Science Building	N/A	N/A	Non-Contributing
Boy's Gymnasium (Building 7)	1955	1981 (fire damage)	Non-Contributing
Girl's Gymnasium (Building 6)	1957	N/A	Non-Contributing
Utility Building (Building 8)	1917	N/A	Contributing
Mechanical Arts Building (Building 11)	1938	1990	Contributing
Music Building (Building 12)	1951	N/A	Non-Contributing
Home Economics Building (Building 16)	1960	1977 (Fire Damage)	Non-Contributing
Industrial Arts Building (Building 21)	1959	N/A	Non-Contributing
Metal Shop (Building 25)	1964	N/A	Non-Contributing
Landscape	1936	Unknown	Contributing

7.1 Site Plan and Landscape

- Trapezoid-shaped irregular lot
- Site plan of 1930s Buildings 2, 1, 4 and 11 arranged in a U-shape fronting the west, south, and east sides of the parcel with Building 3 sited at the center of the U. The site plan also consists of:
  - Paved interior courtyard between Buildings 1, 2, 3 and 4, including two tiled drinking fountains and two Streamline style reinforced concrete covered passageway connecting Buildings 1 and 3 and Buildings 3 and 4.
- Landscape in-front of Buildings 1 and 4 fronting E 41st Street and Compton Avenue includes expanses of green grass, mature trees and plantings and:
  - Hardscape and walkways consisting of brick and concrete at corner of Compton Avenue and 41st Street leading to primary school entrance. Rectangular planting bed near the southern end.
  - Hardscape, steps, and walkways constructed of brick and concrete at corner of Hooper Avenue and 41st Street leading to primary entrance Auditorium Building 2 and side entrance of Building 1. Rectangular planting bed near the southern end.
  - Two walkways extending from secondary entrances of Building 4 to Compton Avenue.

7.2 Administrative and Classroom Building 1

Exterior Features

- Reinforced concrete construction
- Rectangular plan and two-story, horizontal box-like massing with rounded corners
- Symmetrical facades with strong sense of horizontality evoked through rows of windows and raised plaster bands
- Flat roof with coping
- Varied roof heights
- Textured (combed plaster) and smooth concrete exterior walls
- Four raised bands running along first and second floors of primary elevations over rows of windows
- Rows of windows consisting of four-over-four and multi-light awning metal-framed windows
- Flat pilasters separating window channels
- Streamline canopies above entrances
- Pipe railings along exterior staircases
- Building set back behind a front lawn
- Crescent shaped primary entrance bay connects Buildings 1 and 4 at the corner of 41st Street and Compton Avenue. School name displayed in Moderne style signage above entrance. The corners of Buildings 1 and 4 curved inward toward the entrance

Interior features

- Circulation plan
- Terrazzo floors
- Curved concrete stairwells with pipe railings
- Curved interior walls
- Second-Story Library: Four oil on canvas paintings attached to the library walls signed by artist Ross Dickinson and dated 1937. Streamline style curved walls accentuated by horizontal bands, engaged columns separating canvas paintings, and reeded crown molding. Wood panel doors

7.3 Auditorium Building 2

Exterior features:

- Reinforced concrete construction
- Rectangular plans and box-like two-story massing with rounded corners set back from Hooper Avenue
- Flat roof with coping
- Textured (combed plaster) and smooth concrete exterior walls
- Primary entrance on south elevation recessed within a Streamline style concrete surround and canopy crowned by “Auditorium” signage. Concrete stairs lead to 2-sets of double doors
- Two side entrances on both the west and east elevations accentuated by pilasters soaring above the roofline that flank single-doors and the primary entrance is covered by Streamline style canopy supported by engaged columns
- Multi-light metal-framed awning windows

Interior Features of Lobby

- Circulation plan
- Sequence of spaces (lobby, auditorium, and stairwells)
- Terrazzo flooring
- Recessed circular lighting covers
- Rounded walls
- Curved concrete stairwell and pipe railings

Interior Features of Auditorium:

- Circulation plan
- Wood seating with cast-iron sides and legs
- Concrete floor
- Rounded walls,
- Streamline Moderne Proscenium

- Circular hanging pendant lamps
- Coved ceiling

7.4 Cafeteria Building 3

Exterior features:

- Reinforced concrete construction
- Rectangular plan and one-story box-like massing
- Symmetrical facades with strong sense of horizontality evoked through rows of windows and raised plaster bands
- Flat roof with coping
- Four-over-four and multi-light awning metal-framed windows (alteration, covered with metal security screens)
- Flat pilasters separating window channels
- Two Streamline style reinforced concrete covered passageways span interior courtyard at south and east elevations connecting Buildings 1 and 4
- Grand entrance on West elevation underneath prominent Streamline canopy supported by heavy, round columns. Concrete stairs and low wall.

7.5 Classroom Building 4

Exterior features:

- Set back behind a front lawn
- Reinforced concrete construction
- Rectangular plan and horizontal box-like two-story massing with rounded corners
- Symmetrical facades with strong sense of horizontality evoked through rows of windows and raised plaster bands
- Flat roof with coping
- Textured (combed plaster) and smooth concrete exterior walls
- Four raised bands running along first and second floors of primary elevations over rows of windows
- Four-over-four and multi-light awning metal-framed windows
- Flat pilasters separating window channels
- Streamline canopies above entrances
- Two side entrances on east elevation accentuated by pilasters soaring above the roofline that flank double-doors and a column of windows
- Secondary entrance on North elevation accentuated by Streamline style pilasters that extend above roofline with a canopy connecting Buildings 11 and 4

- Streamline style reinforced concrete covered passageway connecting Buildings 11 and 4 at north elevation

7.6 Classroom Building 11

Exterior features:

- Irregular L-shape plan
- Rectangular one-story massing with rounded corners
- Textured (combed plaster) and smooth concrete exteriors
- Main entrance made prominent by two pilasters rising above roofline and covered by a canopy connected to Building 4
- Vents below roofline
- Multi-light metal-framed windows

7.7 Utility Building 8

Exterior features:

- Power building from 1920s campus
- Reinforced brick construction
- Square plan and massing
- Renaissance Revival style wood cornice with dentils at roofline below parapet
- Wood belt course
- Three and four-light metal-framed transom windows

8. Project Impacts Assessment

8.1 Significance Thresholds

The thresholds for determining the significance of environmental effects on historical resources identified below are derived from the CEQA Guidelines as defined in §15064.5. Pursuant to this guidance, a project that would physically detract, either directly or indirectly, from the integrity and significance of the historical resource such that its eligibility for listing in the California Register would no longer be maintained, is considered a project that would result in a significant impact on the historical resource. Adverse impacts, that may or may not rise to a level of significance, result when one or more of the following occurs to a historical resource: demolition, relocation, conversion, or alteration, or new construction on the site or in the vicinity.

8.1.1 CEQA Guidelines

According to the State *CEQA Guidelines*, Section 15064.5(b) a project involves a “substantial adverse change” in the significance of the resource when one or more of the following occurs:

- Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.
- The significance of a historical resource is materially impaired when a project:

  A. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the California Register of Historical Resources; or

  B. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in a historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

  C. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for purposes of CEQA.

Under CEQA, a proposed development must be evaluated to determine how it may impact the potential eligibility of a structure(s) or a site for designation as a historic resource. A project that is not compliant with the SOI standards does not automatically result in significant impacts with regards to the CEQA thresholds. However, a project that complies with the *Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings* (Standards) (Weeks and Grimer, 1995) is considered to have mitigated its impacts to historical resources to a less-than-significant level (*CEQA Guidelines* Section 15064.5(b)(3)).

8.2 Secretary of the Interior Standards for Rehabilitation Analysis

This section presents the findings of the SOI Standards for Rehabilitation analysis. The analysis provides a discussion broken down by the contributors to the potential Historic District.

Rehabilitation Standard No. 1: *A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces and spatial relationships.*

- *Administrative Building (Building 1) and Classroom Building (Building 4)*

  The Administrative Building (Building 1) and Main Classroom Building (Building 4) would continue to be used as they were historically, as offices, classrooms and a library. Therefore, the proposed Project does not involve a change in use and complies with Standard No. 1.

- *Auditorium (Building 2)*

  The modernization of the Auditorium (Building 2) does not involve a change in use and therefore complies with Standard No. 1.

- *Cafeteria (Building 3)*

  The seismic retrofitting and painting of the Cafeteria (Building 3) does not involve a change in use and therefore complies with Standard No. 1.

- *Site Upgrades and Landscape Design*

  The site upgrades and landscape design does not involve a change in use and therefore complies with Standard No. 1.

- *Proposed Demolition and New Construction*

  The new construction on the campus would continue to support the its use as a high school and the buildings proposed to be removed would not impact the potential Historic District to the extent that it would no longer be eligible.

  The campus would continue to be used as a high school; therefore, the proposed Project complies with Rehabilitation Standard No. 1.

Rehabilitation Standard No. 2: *The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces and spatial relationships that characterize the property will be avoided.*

- *Administrative Building (Building 1) and Classroom Building (Building 4)*

  The modernization of the Administrative Building (Building 1) and Classroom Building (Building 4) would require the removal of interior CDFs. Specifically the Project would involve: the reconfiguration of interior walls resulting in the removal of corridors and the disruption of the circulation plan on the second floor of Administration Building (Building 1) and a portion of the first floor of Classroom Building (Building 4); the reconfiguration of spaces behind the retained corridors and infill and insertion of new doorways; potential removal and adjustment of stairway pipe railings (the height of the railings would be adjusted); and the reconfiguration of the main entrance lobby and library. The main entrance lobby is proposed to be enlarged to the north which would may require the alteration of the arched shaped space. It should be noted that the north elevation of Building 1 was altered sometime between 1984 and 1994 based upon the review of historical aerials and at this time elevator and stair shafts were added to the north elevation. Due to the removal of the corridor on the second floor of the Administration Building (Building 1), the library is proposed to be enlarged. As such, the library may lose character-defining Streamline Moderne style features including the wood paneled doors, deeply inset doorways, curved walls accentuated with horizontal bands, reeded crown molding, decorative ceiling beams, bookshelves, library counter area with plate glass display window, wood canopy and small restroom. Portions of these aspects of the modernization of Administrative Building (Building 1) and Classroom Building (Building 4) would not be compliant with Standard No. 2. The interior modifications would also include updates to retain and restore interior CDFs of the buildings such as the main entrance lobby to remove modifications that were made to the original, restoration of murals, retaining/ replicating display cases and other features where possible, as well as other treatments that comply with the Standard No. 2.

  In comparison to the interior features, the exterior of these buildings are relevant where there may be important views of the potential Historic District as experienced from the public right-of-way. The exteriors of the contributing buildings of the potential Historic District will remain

largely intact and CDFs such as the windows and exterior walls will be rehabilitated in order to preserve the building's original exterior appearance. The exterior restoration efforts would have a beneficial effect on the overall project and would ensure that the potential Historic District retains it eligibility. Also, the overall geometry and relationships between Buildings 1, 2, and 4 as well as the historic landscape in front of Buildings 1 and 4 will remain the same. As a result, the modernization of Administrative Building (Building 1) and Classroom Building (Building 4) would be compliant with Standard No. 2.

- *Auditorium (Building 2)*

  The proposed work to the exterior includes the restoration of the windows and the addition of a plinth between the Auditorium and Building 1. The one temporary possible addition is a ramp on the north (secondary) facade of the building. Interior changes include the remodeling of restrooms and the resulting abatement of floor and ceiling finishes, which could include the terrazzo floor, a CDF. While the proposed Project could result in the removal of some of the interior CDFs, which do not comply with Standard No. 2, overall the vast majority of these features will be retained with minimal impact to the integrity of the overall design and feeling. The majority of the contributing buildings associated with the potential Historic District would be rehabilitated and restored, which would beneficially impact the overall project. As such the proposed Project elements for the Auditorium would be compliant with Standard No. 2.

- *Cafeteria (Building 3)*

  The exterior will be repainted as part of the proposed Project, and this will not result in the alteration or removal of distinctive materials. The building will undergo seismic strengthening on the interior, and all work will be done through the roof and ceiling in order to minimally alter the building. The Project elements on the interior of this building would not result in adverse changes to the building's character because no distinctive materials or features, spaces, or spatial relationships have been identified as CDFs on the interior of this building. This work is compliant with Standard No. 2.

- *Site Upgrades and Landscape Design*

  There are no significant changes proposed to the landscaping in front of Buildings 1 and 4. Shrubs would likely be added close the buildings, which would not constitute a significant change. The historic character of this contributing feature will be maintained. This aspect of the Project is compliant with Standard No. 2.

- *Proposed Demolition and New Construction*

  Despite the proposed demolition of the Mechanical Arts Building (Building 11) and Power House (Building 8), both contributing buildings, Jefferson HS would retain the majority of its contributing buildings and landscape and would retain its eligibility as a potential Historic District under this Project component. The demolition aspect of the Project does not comply with Standard No. 2.

The potential Historic District (and as such, the character of the property) will be retain, restored, rehabilitated, and preserved; therefore, the Project will comply with Standard No. 2.

Rehabilitation Standard No. 3: *Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historical properties, will not be undertaken.*

- *Buildings 1, 2, and 4*

  No conjectural features or elements from other historical properties are proposed to be added that would create a false sense of history. This aspect of the Project complies with Standard No. 3.

- *Site Upgrades and Landscape Design*

  No conjectural features or elements from other historical properties would be added to the historic landscaping or overall site. This aspect of the Project complies with Standard No. 3.

- *Proposed Demolition and New Construction*

  While the design of the proposed new buildings has drawn inspiration from the Streamline Moderne style they are clearly modern and do not create a false sense of historical development. The aspect of the Project complies with Standard No. 3.

Rehabilitation Standard No. 4: *Changes to a property that have acquired significance in their own right will be retained and preserved.*

Standard No. 4 is not applicable to this Project, as there are no CDFs that have attained significance after the original period of significance.

Rehabilitation Standard No. 5: *Distinctive materials, features, finishes and construction techniques or examples of craftsmanship that characterize a property will be preserved.*

- *Administrative Building (Building 1) and Classroom Building (Building 4)*

  Based upon the schematic plans, the modernization of the Administrative Building (Building 1) and Classroom Building (Building 4) would require the removal of interior character-defining features, specifically the reconfiguration of interior walls resulting in the removal of corridors on the second floor of Administration Building (Building 1) and first floor of Classroom Building (Building 4); the reconfiguration of spaces behind the retained corridors and infill doorways; potential removal and adjustment of stairway pipe railings; and the alteration and enlargement of the library. While the removal of these interior CDFs is important, as noted in the discussion for Standard No. 2, the exterior of these buildings will remain largely intact with repairs to rehabilitate and restore the exterior walls and windows as necessary and the addition of access ramps. The exterior rehabilitation and restoration efforts would have a beneficial effect on the overall project and would ensure that the potential Historic District retains it eligibility. As a result, the modernization of Administrative Building (Building 1) and Classroom Building (Building 4) would be largely compliant with Standard No. 5.

- *Auditorium (Building 2)*

  The proposed changes to the exterior include the restoration of the windows, the addition of a plinth between the Auditorium and Building 1, and the possible addition of a ramp on the north (secondary) facade of the building. Interior changes include the remodeling of restrooms, and the possible abatement of floor and ceiling finishes, which could include the terrazzo floor, a CDF. While the proposed Project could result in the removal of some of the interior CDFs overall the vast majority of these features will be retained with minimal impact to the integrity of the overall design and feeling. The exterior rehabilitation and restoration efforts would have a beneficial effect on the overall project and would ensure that Building 2 remains a contributor to the potential Historic District. The alteration of these interior spaces may include the removal

of distinctive materials, features and construction techniques that characterize the Auditorium (Building 2) and would therefore not comply with Standards No. 5. As such the proposed Project elements for the Auditorium are largely compliant with Standard No. 2.

- *Cafeteria (Building 3)*

  The proposed Project will include painting the exterior of the Cafeteria (Building 3) and seismically retrofitting the interior; the distinctive materials, finishes and craftsmanship of the exterior will be retained. The seismic improvements to the interior portion of this building would not result in adverse changes to the character of this building because no CDFs have been identified on the interior of this building. Therefore, this aspect of the Project would comply with Standard No. 5.

- *Site Upgrades and Landscape Design*

  No major changes are proposed to the landscaping in front of Buildings 1 and 4. The configuration and major elements will be retained and shrubs may be added near the buildings, which is consistent with the historic layout. This aspect of the Project would comply with Standard No. 5.

- *Proposed Demolition and New Construction*

  The proposed demolition of the Mechanical Arts Building (Building 11) and Power House (Building 8), contributing buildings, would remove materials, features, finishes and construction techniques. This aspect of the proposed Project would not comply with Standard No. 5.; however, the majority of the contributing buildings and landscape elements would be retained and rehabilitated.

Rehabilitation Standard No. 6: *Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.*

- *Modernization and Seismic Retrofits of Contributing Buildings*

  Based upon the Project description it appears that the rehabilitation of the interior, terrazzo floor, and other CDFs would be repaired and where necessary the replacement of deteriorated or missing features would be made in-kind. It is unclear at this time the extent to which the terrazzo floor would need to be removed and abated. If it does require removal for asbestos abatement, the District has indicated that the floor would be replaced following the original pattern. This aspect of the Project would be largely compliant with Standard No. 6.

- *Site Upgrades and Landscape Design*

  The layout of the landscaping in front of Buildings 1 and 4 would remain the same with individual features being rehabilitated, such as the installation of a new irrigation system. New shrubs may also be planted close to the building in an area that currently has shrubs. This aspect of the Project complies with Standard No. 6.

- *Proposed Demolition and New Construction*

  Standard No. 6 does not apply to this aspect of the proposed Project.

Rehabilitation Standard No. 7: *Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.*

No chemical or physical treatments that could be potentially harmful to historic resources have been identified as part of the Project. Per LAUSD's Standard Conditions, specifically SC-CUL-2, the Historic Architect shall ensure the proper treatment methods are undertaken to ensure the work complies with the objectives of Standard No. 7.

Rehabilitation Standard No. 8: *Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measure will be undertaken.*

- *Modernization and Seismic Retrofits*

  Standard No. 8 is not applicable to this aspect of the Project.

- *Site Upgrades and Landscape Design*

  As part of the site upgrades and landscape elements of the proposed Project, there could be ground disturbance. The Project would incorporate SC-CUL-7 through SC-CUL-13. These conditions include retention of an on-call qualified archaeologist, implementation of an archaeological resources monitoring program, halting and re-directing work in the event of a discovery until it is evaluated for significance, cultural resources sensitivity training, and Phase III Data Recovery/Mitigation Program in the event that a significant resource is discovered and cannot be avoided. After implementation of these conditions, this aspect of the Project would comply with Standard No. 8.

- *Proposed Demolition and New Construction*

  As part of the redevelopment on the north section of Jefferson HS, there would be ground disturbance. As previously noted, the Project requires compliance with SC-CUL-7 through SC-CUL-13. These conditions include retention of an on-call qualified archaeologist, implementation of an archaeological resources monitoring program, halting and re-directing work in the event of a discovery until it is evaluated for significance, cultural resources sensitivity training, and Phase III Data Recovery/Mitigation Program in the event that a significant resource is discovered and cannot be avoided. After implementation of these conditions, this aspect of the Project would comply with Standard No. 8.

Rehabilitation Standard No. 9: *New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and environment.*

- *Administrative Building (Building 1) and Classroom Building (Building 4)*

  Exterior alterations would be limited to the expansion of the lobby by moving the rear (north) exterior wall and the construction of the plinth between Buildings 1 and 2. The north elevation of Building 1 was altered sometime between 1984 and 1994 based upon the review of historical aerials and at this time elevator and stair shafts were added to the north elevation. Second, the interior circulation pattern and corridors would be disrupted on the second floor of the Administration Building (Building 1) and Classroom Building (Building 4). Further, the library

would be enlarged. These aspects of the Project would result in the removal of some historic materials.

No additions or significant exterior alterations are proposed that would disrupt the spatial relationships between Buildings 1, 2, and 4 as well as the landscaping in front of Buildings 1 and 4. The new exterior wall at the lobby will be compatible with the Streamline Moderne style, but will not mimic it so that it can be differentiated from the original building; additionally, the ADA compliant ramp and the plinth will be minimally visually intrusive and could be removed at a later time with minimal damage to historic materials and features. These aspects of the Project are consistent with Standard No. 9.

- *Auditorium (Building 2)*

  Exterior alterations would be limited to the construction of the plinth between Buildings 1 and 2 and the replacement of an existing ramp on the north side. The plinth could be removed at a later time with minimal damage to historic materials and features; however, it is unlikely that its removal would ever be considered in the future due to its function of providing access to the buildings. The spatial relationship between Buildings 1 and 2 would not be altered by the construction of the plinth. These changes would be compatible with, but differentiated from the original buildings. This aspect of the Project is compatible with Standard No. 9.

- *Cafeteria (Building 3)*

  The Project includes interior seismic retrofitting and exterior painting, which does not include any new additions, exterior alterations, or related new construction that would destroy historic materials, features, and spatial relationships. This aspect of the Project complies with Standard No. 9.

- *Site Upgrades and Landscape Design*

  The layout of the landscaping in front of Buildings 1 and 4 would remain the same with individual features being rehabilitated, such as the installation of a new irrigation system. New shrubs may also be planted close to the building in an area that currently has shrubs. This aspect of the Project complies with Standard No. 9.

- *Proposed Demolition and New Construction*

  The proposed demolition of the Mechanical Arts Building (Building 11) and Power House (Building 8), contributing buildings, would remove the materials, features, finishes and construction techniques of these buildings from the potential Historic District and would not comply with Standard No. 9; however, the majority of the contributing buildings and landscaping and their spatial relationships would be retained.

  Furthermore, the new construction, including a new Athletics Building, Classroom Building and lunch shelter, would be sited away from the historic buildings and buffered by a quad to protect the spatial relationships of the contributing resources. The paseo created with the new quad and spacing between the Athletics Building and Classroom Building retains the historic views towards the athletic fields and the north end of campus. Additionally, the new Athletics Building is proposed to be built in the same area as the Mechanical Arts Building (Building 11) sited about 25 feet to the north of Classroom Building (Building 4). Despite the new Athletics Building extension of 25 feet past the east elevation of new Classroom Building, the historical views would be maintained along the east side of the property along the east elevation of the new Classroom Building.

The one and two-story height of the new Athletics Building and new Classroom Building is similar in scale, height and massing to the historic two-story buildings. Based upon the rendering of the new Athletics Building and new Classroom Building, presented in Figures 5 and 11, the new construction is similar in height to the historic buildings. Generally, the new construction is compatible with the scale and massing of the historic buildings that contribute to the potential Historic District.

Lastly, the design of the new buildings, particularly the Athletics Building and Classroom Building, are inspired by the Streamline Moderne architecture through the use of curved walls, horizontal bands of windows, flat roofs, and combed and smooth exterior plaster. The incorporation of Streamline motifs creates compatibility with the historic buildings that contribute to the potential Historic District, yet the modern interpretation of these elements creates sufficient differentiation. Additionally, the incorporation of modern materials such as metal and fiber cement panels and window system louvers, in addition to perforated panels customized with site specific artwork, create further differentiation with the historic buildings.

Therefore, with the exception of the removal of the Mechanical Arts and Power House Buildings, the Project would comply with Standard No. 9.

Rehabilitation Standard No. 10: *New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

- *Administrative Building (Building 1) and Classroom Building (Building 4)*

  It is unknown if the new north wall that would enlarge the lobby is reversible; however, as noted in Chapter 7 (Character-Defining Features), this façade has been previously altered. Also, the north façade is not the primary façade and this alteration is considered fairly minor given the scale of the entire building; therefore, it would be acceptable if it were not reversible or practical. The plinth between Buildings 1 and 2 and the any exterior access ramps could be removed in the future with little to no impact to the historic buildings. The majority of the remaining interior alterations could be reversed at a future date. This aspect of the Project complies with Standard No. 10.

- *Auditorium (Building 2)*

  Exterior alterations would be limited to the construction of the plinth between Buildings 1 and 2, and the replacement of an existing ramp on the north side of the building. The plinth could be removed at a later time with minimal damage to historic materials and features; however, it is unlikely that its removal would ever be considered in the future due to its function of providing access to the buildings. The spatial relationship between Buildings 1 and 2 would not be altered by the construction of the plinth. These changes would be compatible with, but differentiated from the original buildings. This aspect of the Project is compatible with Standard No. 10.

- *Cafeteria (Building 3)*

  Standard No. 10 is not applicable to this aspect of the Project.

- *Site Upgrades and Landscape Design*

  The layout of the landscaping in front of Buildings 1 and 4 would remain the same with individual features being rehabilitated, such as the installation of a new irrigation system. New

shrubs may also be planted close to the building in an area that currently has shrubs. All new construction would occur to the north of Buildings 1 and 4 and would likely only be minimally visible from the eastern portion of the historic lawn. This aspect of the Project complies with Standard No. 10.

- *Proposed Demolition and New Construction*

  The proposed construction of the new Athletics Building, new Classroom Building, and lunch shelter would be freestanding and located to the north and east of the historic buildings that contribute to the potential Historic District. If removed in the future, the contributing buildings and landscape would be retained and potential Historic District would continue to be eligible for the National Register and listed on the California Register. Therefore, this aspect of the Project complies with Standard No. 10.

8.3 Impact Analysis

8.3.1 Direct Impacts

Jefferson HS was determined eligible for inclusion in the National Register through consensus and is listed in the California Register because it is associated with the rebuilding of LAUSD Schools following the 1933 Long Beach Earthquake; embodies the distinctive characteristics of the Streamline Moderne style of architecture; represents a significant work of master architect Stiles O. Clements; and has retained integrity of setting, design, materials, workmanship, location, feeling, and association from its period of significance (1935-1937). The Administration and Classroom Building (Building 1), Auditorium (Building 2), Cafeteria Building (Building 3), and Main Classroom Building (Building 4), Mechanical Arts Building (Building 11) and Power House (Building 8) were determined contributors to the potential Historic District, as well as the majority of the landscape surrounding these Buildings 1 and 4.

The proposed Project would include renovations, modernizations, and new construction on the campus, in addition to the demolition of contributing and non-contributing buildings and structures. The proposed Project includes seismic retrofitting and/or modernization of four contributing buildings; the Administrative and Classroom Building (Building 1), the Auditorium Building (Building 2), and Classroom Building (Building 4). The exterior of the Cafeteria (Building 3) is only proposed to be painted. Furthermore, the proposed Project includes demolition of the contributing Mechanical Arts Building (Building 11) and the contributing Power House Building (Building 8), which would both be replaced under the Project with a new Athletics Building and lunch pavilion with landscaped courtyard. While these buildings are contributors to the potential Historic District they are not the most visually or functionally prominent buildings. Lastly, a new Classroom Building would be constructed in the place of the non-contributing Competitive and Practice Gymnasiums.

With the incorporation of SC-CUL-1, SC-CUL-2, and SC-CUL-3, the majority of the contributing buildings, as well as the contributing landscape, to the extent feasible, have been designed and would be rehabilitated in conformance with the SOI Standards for Rehabilitation, LAUSD Design Guidelines and Treatment Approaches for Historic Schools, and LAUSD's requirements and guidelines for the treatment of historical resources under the guidance of a qualified Historic Architect. Therefore, with the implementation of SC-CUL-1, SC-CUL-2, and SC-CUL-3, the

proposed renovations of the Administrative and Classroom Building (Building 1), Cafeteria Building (Building 3), Classroom Building (Building 4), Auditorium Building (Building 2), and associated landscape would conform to the SOI Standards for Rehabilitation, the buildings and landscape would retain their integrity, and Thomas Jefferson HS would remain eligible for the National Register and California Register.

The demolition of the Mechanical Arts Building (Building 11) and the Power House (Building 8), contributing buildings to the potential Historic District, would result in the removal of contributing elements to the potential Historic District. The two buildings are contributing and would result in a loss of historic fabric; however, their removal would not materially impair or significantly detract from the overall site plan such that it would no longer be eligible as a potential Historic District. As such, removal of these buildings would not constitute a substantial adverse change in the historic significance or integrity of the potential Historic District. The implementation of SC-CUL-4 would require the recordation/documentation of these buildings in a HABS-like package.

The potential Historic District would retain sufficient integrity through the preservation of the majority of the contributing buildings and the contributing landscape. The CDFs of these contributing buildings would be restored or, in limited instances, replaced in-kind, ensuring the integrity of the historical resource and maintaining its eligibility for the National Register and California Register.

The Project would result in construction of two new buildings, the new Classroom Building and new Athletics Building, as well as a lunch pavilion with landscaped courtyard. With implementation of SC-CUL-1, SC-CUL-2, and SC-CUL-3, the proposed new construction would comply with SOI Standards 9 and 10, would be compatible with the size, scale and height of the Streamline Moderne style contributing buildings, features, and landscape that would remain, and would not destroy spatial relationships that characterize the potential Historic District.

Under the CEQA Guidelines, the significance of a historical resource is materially impaired when a project alters, in an adverse manner, those physical characteristics that account for its eligibility as a historical resource. The potential Historic District is seen as a single resource with the buildings, structures and other features, such as landscaping, as either contributing or non-contributing elements, or pieces, of a historic district. Therefore, with implementation of SC-CUL-1 through SC-CUL-6, Jefferson HS would retain sufficient integrity to remain eligible for the National Register and California Register as majority of the contributing buildings and landscapes would be rehabilitated in conformance to the SOI Standards, new construction would conform to SOI Standards 9 and 10, and the two contributing buildings planned for demolition would be documented in a HABS-like recordation document and their CDFs would be salvaged per LAUSD SC-CUL-1 to SC-CUL-6 resulting in a less-than-significant impact. No mitigation or further study is required.

8.3.1.1 Mitigation Measure

While the impact would be considered less than significant LAUSD has proposed the following voluntary mitigation measure to further reduce the impacts of the loss of historic fabric that will

result from the demolition of Mechanical Arts Building (Building 11) and the Power House (Building 8) as well as other alterations, discussed above, that would result in the loss of CDFs.

> **MM-CUL-1:** To communicate stories, information, and experiences pertinent to the history/historic events that took place on the Jefferson High School campus, an Interpretive Exhibit (and program) shall be developed in collaboration with the Jefferson High School community (i.e. students, staff, alumni, community members, etc.). The Interpretive Exhibit shall be located in a publically accessible area on campus (such as the school library) and shall describe the history of Jefferson High School prior to the Project; specifically, the period of significance (1935–1937) and key historical events that were relevant to Jefferson High School shall be highlighted through historical photographs, aerials, Sanborn maps, student photographs, yearbooks, newspapers, artifacts, and written narrative that visually demonstrate the physical appearance, activities, and architecture style of the school. A District-approved representative or a qualified architectural historian or historic preservation professional shall provide input and oversight to the contents, design, and installation of this Interpretive Exhibit (as applicable).

8.3.2 Indirect Impacts

Indirect impacts were analyzed to determine if the Project would result in a substantial material change to the integrity and significance of historical resources and their immediate surroundings within the Project site and the Project vicinity such that their eligibility would be materially impaired. Potential indirect impacts were found to be less than significant.

8.3.2.1 Project Site

Where demolition, alterations, and new construction would occur as part of the proposed Project, the layout of the majority of the contributing historic buildings and landscape elements would be retained. No potentially significant indirect impacts to the setting of the potential Historic District would result from the Project.

8.3.2.2 Project Vicinity

The proposed Project would not have the potential to result in a direct impact to the historic resources in the surrounding vicinity. As summarized in **Table 4**, no potentially significant indirect impacts to other historical resources in the Project vicinity would result from the Project. The three historical resources that were identified in Chapter 6 as having direct and indirect views of the campus (i.e., the mature Mexican fan palms and two residences), would retain their eligibility as historical resources after Project completion because the Project would not physically alter or destroy any of their CDFs. Following construction, the Project would not obscure primary views to or from these resources. No potentially significant indirect impacts to other historical resources in the Project vicinity would result from the Project.

TABLE 4
HISTORICAL RESOURCES WITH VIEWS OF THE PROJECT SITE

Address	Direct or Indirect View	Description	Potential Impact After Project Completion	Photograph (HistoricPlacesLA.org/Google Street View)
Palm Trees at Martin Luther King Jr. between Morgan and Compton	Indirect View	Mature Mexican Fan Palms associated with the development of the subdivision ca 1905. They are an excellent intact example of subdivision improvements during the early part of the 20th century of which very few remain. Current CHR Status Code: 5S3	**No impact**. Located at a distance of 0.10 to 0.20 miles east from the Project Site, the Palms have a view of the non-contributing portables located on the northeast portion of the campus. Therefore, construction of the Project would not erode the historical setting of the Palms, which would remain eligible at the local level following Project completion.	
1221-1223 East 40th Pl	Indirect View	Ralph J. Bunche House, a bungalow constructed in 1905, is listed on the National Register and LAHCM #159. The residence is significant for its association with Ralph J. Bunche, holder of a Novel Peace Prize and internal diplomat, who lived at the property for eight years. Current CHR Status Code: 1S, 5S1	**No impact.** Located mid-block approximately 0.09 miles west of the Project, the Bunche House currently has an indirect view of the campus and its non-contributing Science Building (Building 5) constructed in 1955. The Project would not impact the Bunche House's CDFs that account for its eligibility as a residence associated with a significant person. Furthermore, the Bunche House has a view of the Science Building (Building 6) that has already eroded its integrity of setting.	
1477 East 41st St	Direct	Victorian cottage constructed in 1903. Current CHR Status Code: 3S, 3CS, 5S3	**No impact.** As an example of a Victorian cottage, the Project would not impact the cottage's CDFs that account for its eligibility as an example of its architectural style and it would remain potentially eligible at the national, state, and local levels. Furthermore, the cottage is sited directly across the street from Jefferson HS's baseball stadium and bleachers which are later additions to the campus and have already eroded its integrity of setting.	

8.3.3 Cumulative Impacts

As defined in Section 15355, a cumulative impact consists of an impact which is created as a result of the combination of the proposed Project together with other projects causing related impacts. A project would have a cumulatively considerable impact on cultural resources if it contributes to the cumulative loss of significant historical or archaeological resources. The cumulative context for this Project would be this and any future projects on at Jefferson HS that could significantly impact historic resources. Following this Project, there are no known or reasonably foreseeable projects identified at Jefferson HS. It would be anticipated that minor maintenance activities may

occur following construction; however, no other projects of the same type or scale are planned at this time.

As the majority of the proposed Project that would occur at the historic buildings is designed to restore and rehabilitate the majority of the contributing historic buildings, overall the proposed Project complies with the SOI Standards for Rehabilitation. The demolition of two contributing buildings, the Mechanical Arts Building (Building 11) and Power House (Building 8), would be the most significant alteration to the potential Historic District; however, these two buildings are not the most prominent contributors to the potential Historic District. The proposed Project it would have a less-than-significant impact on historical resources and after Project completion, and, the potential Historic District would remain eligible for listing in the National Register or California Register. The Project would not have a cumulatively considerable impact to historic resources.

9. References Cited

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——, "Rodeo Plans Now Complete," (March 31, 1915): III3.

——, "Sit Tight and Hold Your Hay," (March 17, 1813): II2.

——, “Fair Youth in Gay Chariots,” (June 2, 1915): II1.

——, “Golden West as Pageant.” (April 2, 1915): II2.

——, “Bullfight Scene From ‘Carmen’ Will Be Unique,” (July 9, 1915): III4

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——, “Sit Tight and Hold Your Hay,” (March 17, 1813): II2.

——, “Fair Youth in Gay Chariots,” (June 2, 1915): II1.

——, “Golden West as Pageant.” (April 2, 1915): II2.

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Appendix A
Resumes

Amber L. Grady

Senior Architectural Historian

EDUCATION

M.A., Historic Preservation, Savannah College of Art & Design, Savannah, GA

B.A., Interior Design with a minor in Art History, California State University, Chico

16 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Society of Architectural Historians

Amber Grady is an expert in NEPA, CEQA, and Section 106 of the NHPA compliance with over 16 years of experience in cultural resources management. Amber has extensive experience in California architectural history with an emphasis on northern California. Her cultural resources management experience includes archival research, historic building and structure surveys and evaluations, and cultural resources documentation for NEPA and CEQA projects ranging from single building evaluations to district-wide surveys. Previously, Amber served as the Cultural Resources Manager for the State of California for the California Army National Guard (CA ARNG). At the CA ARNG Amber managed the cultural resources program, which included the management of over 100 archaeological sites as well as the State's historic armories and supervising three full time archaeologists. Prior to joining the CA ARNG Amber worked for the California Energy Commission as an Architectural Historian where she worked on a variety of energy project including one of the largest solar projects in California as the Cultural Resources lead. Prior to that Amber worked as an Architectural Historian and Project Manager foranother employer on a variety of projects throughout California and Nevada completing project for City's, school districts, and private sector clients. Amber began her career in the public sector working as a planner for both the County of Santa Clara and the City and County of San Francisco. Amber's expertise includes all phases of environmental compliance from documentation to compliance during construction.

Relevant Experience

260 E San Antonio Road Local Landmark Evaluation, Long Beach, CA. ESA evaluated the property for City of Long Beach Local Landmark status. Amber was the Lead Architectural Historian on the project, who was responsible for the research, survey, evaluation, and report completion.

VIP Records Sign, Long Beach, CA. *Senior Architectural Historian.* ESA evaluated the property for City of Long Beach Local Landmark status. Amber was the Lead Architectural Historian on the project, who was responsible for the research, survey, evaluation, and report completion.

Fly DC Jets Sign, Long Beach, CA. *Senior Architectural Historian.* ESA evaluated the property for City of Long Beach Local Landmark status. Amber was the Lead Architectural Historian on the project, who was responsible for the research, survey, evaluation, and report completion.

Los Angeles Unified School District (LAUSD) President Elementary School Historic Resources Evaluation, Harbor City, CA. *Senior Architectural Historian*. This is one of many historic resources evaluations that ESA has done for LAUSD. Amber assisted in the completion of the Historic Resources Evaluation report, which will be used in support of the Environmental Compliance documents.

LAUSD 6th Avenue Elementary School, Los Angeles, CA. *Senior Architectural Historian*. This is one of many historic resources evaluations that ESA has done for LAUSD. Amber assisted in the completion of the Historic Resources Evaluation report, which will be used in support of the Environmental Compliance documents.

California Department of Water Resources (DWR), Oroville Spillway Emergency Repair Project, Oroville Dam, CA. *Senior Architectural Historian.* Amber and her staff have been assisting DWR with Section 106 compliance for built environment resources for the emergency spillway repair project. She routinely advises DWR staff on portions of the project that affect contributing elements of the National Register eligible Oroville Division Historic District, and preparing Finding of Effect documents to ensure construction is not delayed. The project is ongoing and expected to extend through 2018.

730 Stanyan, San Francisco, CA. *Senior Architectural Historian.* ESA is currently assisting the MOHCD with Section 106 compliance for their 730 Stanyan project. Amber is the Lead Architectural Historian on the project and was responsible for research, survey, and evaluation of the historic-age properties within the APE. This project is in progress and ESA will also be preparing the HRE.

City of Sacramento, Swanston Station Transit Village Specific Plan EIR, Sacramento, CA. The Swanston Station Transit Village Plan (SSTVP) was prepared to implement transit-oriented development around the Swanston Light Rail Station in Sacramento's North Sacramento Community Plan Area by providing goals, policies and objectives, and implementation measures that will guide land use and development decisions around the station for 20 years. A series of concepts to construct an intermodal transit center linking the light rail service with bus service at the Swanston Station for the Sacramento Regional Transit District was developed. Amber was responsible for preparing the cultural resources and visual quality sections of the EIR.

California High-Speed Rail Project, Environmental Compliance for San Francisco to San Jose Segment, CA. *Senior Architectural historian, Topic Leader for Cultural Resources, Task Leader for Historic Architecture.* Amber was the Senior Architectural Historian on the project as well as the Topic Leader for Cultural Resources. Topic leader duties included coordinating the recording/evaluating efforts for Archaeological, Historic Architectural, and Paleontological resources. As the Senior Architectural Historian Amber and her team surveyed over 6,000 buildings/structures resulting in the evaluation of over 300 for National Register of Historic Places (National Register) and California Register of Historical Resources (California Register) eligibility.

Rio Mesa Solar Project. *Cultural Resources Lead/Built Environment Specialist.* The Rio Mesa Solar Electric Generating Facility consisted of two 250-megawatt solar concentration thermal power plants situated on the Palo Verde Mesa in Riverside County, California. A common facilities area included a combined administration, control, and maintenance facilities, a water treatment facility, and switchyard. The project total area, including the shared facilities and gen-tie line, was approximately 3,960 acres. Amber was responsible for coordinating the work of 3-4 staff and completing the built environment analysis of the Cultural Resources Section of the Staff Assessment.

Johanna Kahn

Associate

EDUCATION

Master of Architectural History + Certificate in Historic Preservation, University of Virginia

Bachelor of Architecture, California Polytechnic State University, San Luis Obispo

International Program in Florence, Italy, Art & Architectural History, California State University

8 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

San Francisco Heritage

Johanna is an architectural historian in ESA's Cultural Resources Group. Her role entails conducting field surveys and archival research at local repositories in order to document and evaluate historic resources for eligibility for the National and California Registers. Additionally, she writes technical reports that meet federal, state, and local requirements and has completed evaluations for historic buildings, structures, and districts across the San Francisco Bay Area and Central California. Johanna meets the Secretary of the Interior's Professional Qualification Standards for architectural history, architecture, and historic architecture. She is also experienced in museum operations, grant writing, and fundraising for non-profits.

Relevant Experience

Ellis Partners, LLC, 1100 Broadway, Oakland, CA. *Architectural Historian.* As part of an addendum to the CEQA analysis for a proposed project located at 1100 Broadway in Downtown Oakland, Johanna evaluated the design for the rehabilitation of the historic Key System Building and adjacent high-rise commercial tower for consistency with the Secretary of the Interior's Standards for Rehabilitation. The Key System Building is individually listed in the National Register of Historic Places and the City of Oakland Local Register. The proposed project was analyzed for potential effects on the significance of the Key System Building as well as the locally designated Downtown Oakland Historic District, to which the historic building is a contributor.

Metro Parks Tacoma, National Register of Historic Places Nomination for Titlow Lodge, Tacoma, WA. *Architectural Historian.* Johanna prepared documentation to nominate Titlow Lodge for listing in the National Register of Historic Places. Originally known as Hotel Hesperides and constructed in 1911 as a 3-½-story building near the shore of Puget Sound, the lodge was reduced to 1 ½ stories in 1937 as a project of the Works Progress Administration. ESA provided a detailed architectural description of the building's exterior as well as interior spaces, a construction chronology, and a statement of significance under Criterion C (Design/Construction).

San Francisco International Airport (SFO), Recommended Airport Development Plan EIR, San Francisco, CA. *Architectural Historian.* Johanna prepared the Historic Resource Evaluation in support of the EIR for SFO's next long-term master plan—the Recommended Airport Development Plan—that will support the strategic development of the airport over the next two decades. Johanna surveyed, researched, and evaluated historic-age buildings located on the airport campus, developing an in-depth context of the airport's history and development since the beginning of the Jet Age.

San Francisco Mayor's Office of Housing and Community Development, Section 106 Studies, San Francisco, CA. *Architectural Historian.* Johanna has surveyed, researched, and evaluated buildings identified as proposed sites for federally funded, high-density residential development in the City and County of San Francisco as well as buildings within the areas of potential effect.

City of Union City, Masonic Homes Skilled Nursing Facility, Union City, CA. *Architectural Historian.* Johanna surveyed the Masonic Home at Union City campus to confirm the continued existence of contributing features. She prepared an Updated Historic Resources Evaluation Memo that in turn informed the Initial Study.

LeLand Properties, LLC, 2200 Stockton Boulevard, Sacramento CA. *Architectural Historian.* In support of a historic resource evaluation previously prepared by ESA of the 1930s Coca Cola bottling factory at 2200 Stockton Boulevard, Johanna surveyed, researched, and evaluated adjacent properties for potential historic significance.

City of Sacramento, Central City Specific Plan, Sacramento, CA. For the City of Sacramento, ESA is preparing a Specific Plan, associated technical reports, an environmental impact report, and an update to an existing historic district. Cultural resources staff prepared a technical background report, updated the R Street Historic District evaluation, and prepared the Cultural Resources section of the EIR. The historic resources survey for the technical background report and historic district report included surveying and documenting hundreds of parcels as well as archival research and evaluation of resources. The project is ongoing and expected to extend through 2017.

Brown & Caldwell, North Bay Water Reuse Program, San Francisco Bay Area, CA. *Architectural Historian.* As part of a feasibility study comprising a dozen sanitary districts, cities, and counties in the North San Pablo Bay region, Johanna surveyed, researched, and evaluated two wastewater treatment plants in Novato and Napa for potential historic significance.

City of Fremont, Niles Gateway Mixed-Use Project, Fremont, CA. *Architectural Historian.* Johanna analyzed the proposed project, which is located within the Niles Historic Overlay District, for conformance with the Niles Design Guidelines and Regulations. A Design Review Report was prepared in support of the EIR.

Kilroy Realty, Interim Flower Mart Project, San Francisco, CA. *Architectural Historian.* While a new permanent location for the San Francisco Flower Mart is being constructed in the South of Market neighborhood, the operation would temporarily relocate to Piers 19, 19 ½, and 23 on The Embarcadero. In support of the EIR addendum, Johanna analyzed the proposed project for consistency with the Secretary of the Interior's Standards for Rehabilitation. Piers 19 and 23 are contributors to the Port of San Francisco Embarcadero Historic District, which is listed on the National Register of Historic Places. A Part 2 Historic Resource Evaluation was prepared.

City of Burlingame, SFO@Technology Center, Burlingame, CA. *Architectural Historian.* As part of the Initial Study/Mitigated Negative Declaration for the proposed SFO@Technology Center located at 1300 Bayshore Highway, Johanna surveyed, researched, and evaluated a collection of mid-20th-century buildings for potential historic significance.

Soquel Creek Water District, Advanced Purified Groundwater Replenishment Project, Soquel and Santa Cruz, CA. *Architectural Historian.* The proposed advanced purified groundwater replenishment project – Pure Water Soquel – is intended to supplement natural recharge of the Santa Cruz Mid-County Groundwater Basin with purified water. Johanna researched and evaluated residential properties and a wastewater treatment plant for potential historic significance. A cultural resources report was prepared in support of the EIR.

C-2 Archaeological and Paleontological Technical Report

ESA

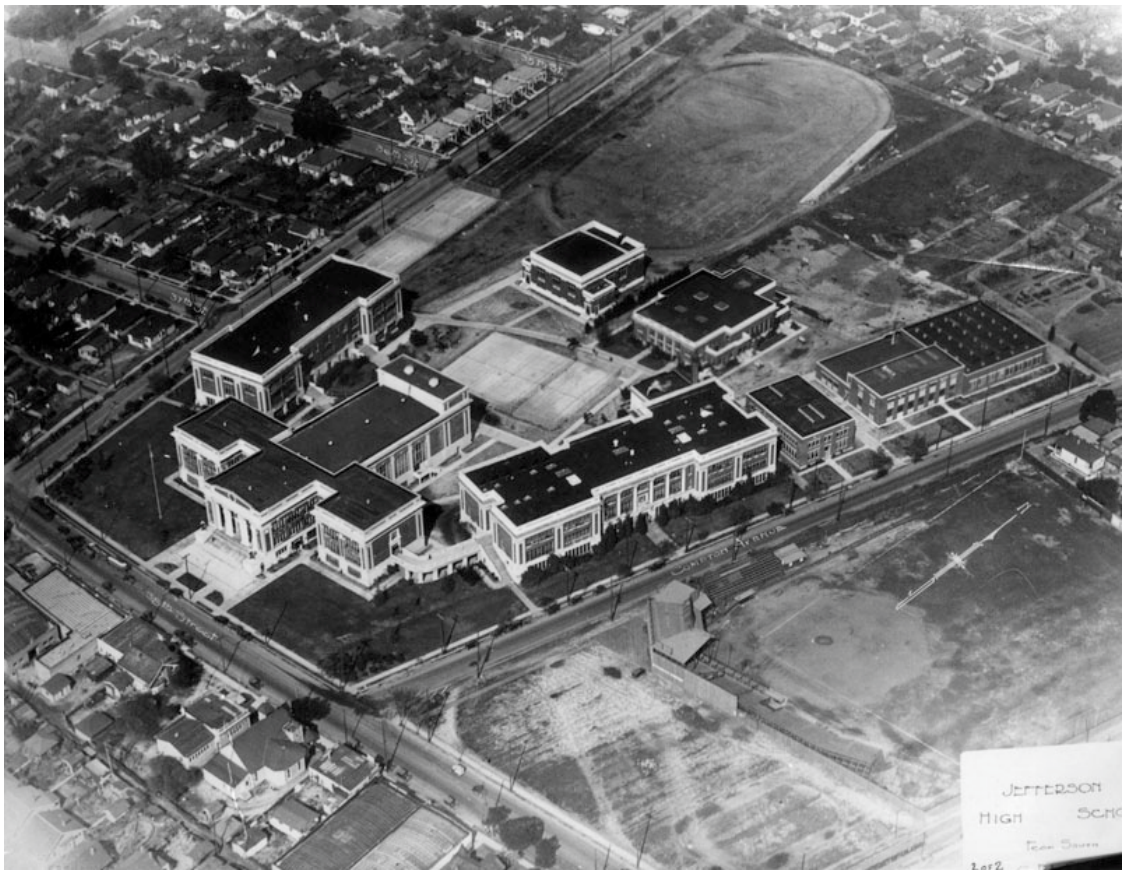
Public Version

Thomas Jefferson High School Comprehensive Modernization Project City of Los Angeles, California

Archaeological and Paleontological Resources Report

Prepared for
Los Angeles Unified School District
333 South Beaudry Avenue
Los Angeles, CA 90017

April 2018



Public Version

Thomas Jefferson High School Comprehensive Modernization Project City of Los Angeles, California

Archaeological and Paleontological Resources Report

Prepared for:
Los Angeles Unified School District
333 South Beaudry Avenue
Los Angeles, CA 90017

April 2018

Prepared by:
ESA
626 Wilshire Blvd. Suite 1100
Los Angeles, CA 90017

Project Director
Monica Strauss, M.A., R.P.A.

Principal Investigators:
Candace Ehringer, M.A., R.P.A.
Alyssa Bell, Ph.D.

Report Authors:
Vanessa Ortiz, M.A., R.P.A.
Michael Vader, B.A.

Project Location:
Hollywood and Los Angeles (CA) USGS 7.5-minute Topographic Quads, Section 9 of Township 2 South, Range 13 West

Acreage: Approx. 18.9 acres

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EXECUTIVE SUMMARY

Thomas Jefferson High School Comprehensive Modernization Project, City of Los Angeles, California – Archaeological and Paleontological Resources Report

The Los Angeles Unified School District (LAUSD or District) has retained Environmental Science Associates (ESA) to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) pursuant to the statutes of the California Environmental Quality Act (CEQA) for the Thomas Jefferson High School Comprehensive Modernization Project (proposed Project). The proposed Project is a site-specific school upgrade and modernization project being completed by LAUSD under the School Upgrade Program (SUP). The SUP Environmental Impact Report (Program EIR) was certified by LAUSD on November 10, 2015.[1] The proposed Project would include the demolition and removal of 116,000 square feet (sf) of existing buildings, construction of new facilities totaling approximately 110,000 sf, and modernization of 53,000 sf of buildings. LAUSD is the lead agency pursuant to CEQA.

The 18.9-acre proposed Project Site is located the southeast portion of the City of Los Angeles, approximately 2 miles south of downtown at 1319 East 41st Street, and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and East 33rd Street to the north. Specifically, the proposed Project Site is located in Section 9, Township 2 South, Range 13 West, of the Hollywood and Los Angeles 7.5-minute USGS topographic quadrangles.

Archival research indicates that the Project Site was the location of the "Old Coliseum" or "Stadium East Grounds," which included an amphitheater capable of seating about 20,000 to 25,000 individuals erected in 1913. It was the location of rodeos, charity events, demonstrations, plays and filming, as well as the bullfighting scene from the 1915 movie *Carmen*, directed by Cecil B. de Mille. In 1915, the Project Site housed events related to the Panama-California Exposition in San Diego and the Panama-Pacific International Exposition in San Francisco. Later in 1915, the Project Site was identified as the location of the future Thomas Jefferson High School, constructed in 1916-1917. The original school buildings were severely damaged by the 1933 Long Beach Earthquake and the school was reconstructed between 1935 and 1937.

A records search for the proposed Project was conducted on January 25, 2016 at the California Historic Resource Inventory System (CHRIS) South Central Coastal Information Center (SCCIC)

[1] LAUSD. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

housed at California State University, Fullerton. The records search included a review of all recorded archaeological sites within a ½-mile radius of the proposed Project, as well as a review of cultural resource reports on file. The records search results indicate that 27 cultural resources studies have been conducted within a ½-mile of the proposed Project. The entirety of the ½-mile radius and the proposed Project Site has been included in past cultural resources studies.

The records search results indicate that two archaeological resources (P-19-003822/CA-LAN-3822H and P-19-003389/CA-LAN-3889/H) have been previously recorded within the ½-mile radius, neither of which are located within the proposed Project Site. P-19-003822/CA-LAN-3822H is a historic-period archaeological site consisting of five subsurface refuse deposits containing domestic items dating to the early 20th century. P-19-003389/CA-LAN-3889/H is a multicomponent archaeological site consisting of a historic-period refuse scatter dating to the early 20th century and a prehistoric lithic scatter.

A paleontological records search was conducted by the Natural History Museum of Los Angeles County (LACM) on January 27, 2016. The results indicate that the proposed Project is underlain by younger Quaternary alluvium derived from floodplain deposits, which are likely underlain by older Quaternary fluvial deposits. The younger deposits to do not typically contain significant fossil specimens; however, the older fluvial deposits have been shown to contain significant vertebrate fossil remains. Although no fossil localities have been previously identified within the proposed Project, a number of fossil localities have been identified in the vicinity of the proposed Project within late Pleistocene sediments similar to those likely underlying the proposed Project.

A Sacred Lands File (SLF) conducted by the California Native American Heritage Commission (NAHC) on January 28, 2016 indicated that no Native American cultural resources are known to be located within the proposed Project Site. Follow-up correspondence was conducted with all individuals and groups indicated by the NAHC as having affiliation with the proposed Project Site. Letters were sent via certified mail on February 4, 2016. To date, no responses have been received.

A geotechnical investigation conducted by Gorian and Associates, Inc. in 2015 indicates that there is artificial fill containing “debris” present at varying depths up to approximately 2.5 feet below ground surface (bgs). This debris could include concrete or other building materials and suggests the presence of subsurface historic-period archaeological deposits related to historical uses of the Project Site.

No known archaeological resources were identified within the Project Site as a result of this study; however, background research conducted for the Project indicates that the Project Site has a high sensitivity for the presence of significant archaeological resources related to early 1900s Los Angeles’ recreational and educational activities, such as the “Old Coliseum.” Since the Project includes ground disturbance, it could result in a significant impact to archaeological resources that qualify as historical resources or unique archaeological resources under CEQA. The Project would incorporate LAUSD Standard Conditions of Approval (SC) SC-CUL-7 through SC-CUL-13 in order to ensure that potential impacts remain at a level that is less than significant. These conditions include retention of an on-call qualified archaeologist (SC-CUL-7),

implementation of an archaeological resources monitoring program (SC-CUL-9), halting and re-directing work in the event of a discovery until it is evaluated for significance (SC-CUL-8 and SC_CUL-10), cultural resources sensitivity training (SC-CUL-11), Phase III Data Recovery/Mitigation Program in the event that an unanticipated significant resource is discovered and cannot be avoided (SC-CUL-12), and consultation with local Native American representatives regarding documentation and recovery of Native American resources (SC-CUL-13).

No paleontological resources were identified within the Project Site. Background research conducted for the Project indicates that the proposed Project is likely underlain by older Quaternary fluvial deposits at unknown depths that could contain significant vertebrate fossil remains. Shallow excavations (<10 feet) are not likely to impact older sediments that have high potential to yield paleontological resources. Deeper excavations (>10 feet) have a higher potential to encounter Pleistocene-age paleontological resources and the proposed Project could result in a significant impact to unique paleontological resources under CEQA. As such, ESA recommends the Project comply with SC-CUL-14, and for excavations in excess of 10 feet, SC-CUL-15, in order to ensure that potential impacts remain less than significant.

Thomas Jefferson High School Comprehensive Modernization Project City of Los Angeles, California

Archaeological and Paleontological Resources Report

Introduction

The Los Angeles Unified School District (LAUSD or District) has retained Environmental Science Associates (ESA) to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) pursuant to the statutes of the California Environmental Quality Act (CEQA) for the Thomas Jefferson High School Comprehensive Modernization Project (proposed Project). The Proposed project is a site-specific school upgrade and modernization project being completed by LAUSD under the School Upgrade Program (SUP). The SUP Environmental Impact Report (Program EIR) was certified by LAUSD on November 10, 2015.[2] The proposed Project would include the demolition and removal of 116,000 square feet (sf) of existing buildings, construction of new facilities totaling approximately 110,000 sf, and modernization of 53,000 sf of buildings. LAUSD is the lead agency pursuant to CEQA.

ESA personnel involved in the preparation of this report are as follows: Monica Strauss, M.A., R.P.A., Project Director; Candace Ehringer, M.A., R.P.A., Principal Investigator; Alyssa Bell, Ph.D., Paleontological Principal Investigator; Vanessa Ortiz, M.A., R.P.A, and Michael Vader, B.A., report authors; and Jason Nielson, GIS specialist. Resumes of key personnel are included in **Appendix A**.

Project Location

The 18.9-acre proposed Project Site is located the southeast portion of the City of Los Angeles, approximately 2 miles south of downtown (**Figure 1**). The proposed Project is located at 1319 East 41st Street and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and East 33rd Street to the north (**Figure 2**). Specifically, the Proposed project area is located in Section 9, Township 2 South, Range 13 West, of the Hollywood and Los Angeles 7.5-minute USGS topographic quadrangles (**Figure 3**).

[2] LAUSD. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

SOURCE: Los Angeles County GIS.

Thomas Jefferson High School Comprehensive Modernization Project. 211085.23

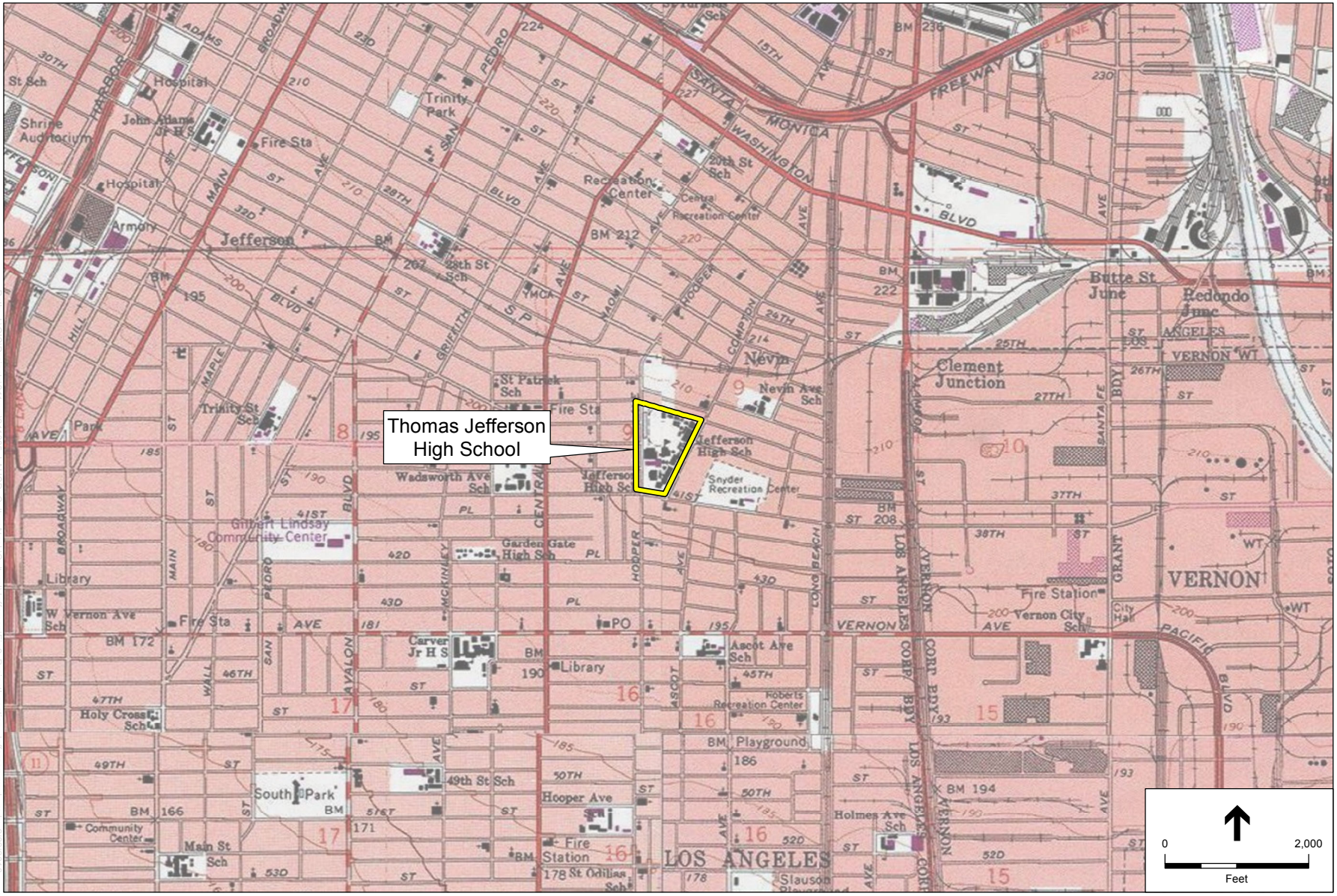
Figure 1

Project Vicinity

SOURCE: NAIP 2014

Thomas Jefferson High School Comprehensive Modernization Project. 211085.23

Figure 2
Project Detail



SOURCE: USGS 7.5' Quads Hollywood 1978, 1982; Los Angeles 1978, 1982; Inglewood 1978, 1982; South Gate 1978, 1982

Thomas Jefferson High School Comprehensive Modernization Project. 211085.23

Figure 3
Project Location

Project Description

The proposed Project Site consists of a high school campus that includes a two-story Administrative and Academic Building (which includes the Main Classroom Building), Mechanical Arts Building, Assembly Hall Building (Auditorium), Food Services/Student Cafeteria, Science Building, two Gymnasiums, Music Building, Home Economics, Industrial Arts Building, Metal Shop Building, Power House (Utility Building), portable buildings, and modular structures. An athletic (football) field is located at the northwestern portion of the proposed Project Site and existing parking is located at the southwest corner of the campus near the intersection of Hooper Avenue and East 41st Street and at the northeastern portion of the campus along Compton Avenue.

The proposed Project would include renovations, modernizations, and new construction, including the demolition and removal of existing buildings totaling approximately 116,000 square feet (sf), construction of new facilities totaling approximately 110,000 sf, and modernization of 53,000 sf of buildings. Upgrades to the Administrative and Academic Building (including the Main Classroom Building) and Cafeteria Building would entail seismic retrofits. Construction activities are anticipated to be initiated in 2018 and to be completed in the 2nd quarter of 2022.
The proposed Project would include demolition of the Gymnasiums (practice and competitive), Mechanical Arts Building, Industrial Arts Building, Metal Shop Building, Power House (Utility Building), Music Building, Home Economics Building, Lunch Shelter/Service Building, and approximately 30 classrooms located in relocatable buildings.

The proposed Project would include construction a new Gymnasium (practice and competitive), Lunch Pavilion, Baseball/Softball Field, and approximately 46 general and specialty classrooms and support spaces. Modernization and/or upgrades would be completed for the Administrative/Library, Main Classroom Building, and Cafeteria Building.

Site upgrades that would be completed throughout the campus include: site-wide infrastructure, including plumbing, electrical and storm drain; site-wide upgrades to remove identified and prioritized barriers to program accessibility; and landscape, hardscape, and exterior paint.

Setting

Natural Setting

The proposed Project is currently a high school composed of a number of standing buildings, as well as landscaped and hardscaped surfaces. The proposed Project is located in a highly urbanized portion of the Los Angeles Basin in an area dominated by residential and industrial development. Prior to urban development and the channeling of the Los Angeles River, the proposed Project vicinity would have included a variety of landforms including marshes, dense woodland, and grassland (Gumprecht, 2001).

Geologic Setting

The Project Site is in the central coastal plain portion of the Los Angeles basin in the downtown area of Los Angeles. The Los Angeles structural basin is a northwest trending structural trough within the western terminus of the Peninsular Ranges geomorphic province of southern California and bounded by Transverse Ranges geomorphic province to the north and west. This geomorphic province is dominated by active compressional tectonics (crustal shortening) and is characterized by east west trending ranges and ridges with intervening canyons and valleys (Gorian and Associates, Inc., 2015).

The Project Site is underlain by Holocene alluvial deposits derived from sediments deposited from the ancestral Los Angeles River, referred to as younger alluvial deposits, locally mantled with artificial fill, grass, and asphaltic concrete. The alluvium generally consists of silty sand in a damp and loose to medium dense condition (Gorian and Associates, Inc., 2015).

Prehistoric Setting

The chronology of coastal southern California is typically divided into three general time periods: the Early Holocene (11,000 to 8,000 Before Present [B.P.]), the Middle Holocene (8,000 to 4,000 B.P.), and the Late Holocene (4,000 B.P. to A.D. 1769). Within this timeframe, the archaeology of southern California is generally described in terms of cultural "complexes." A complex is a specific archaeological manifestation of a general mode of life, characterized archaeologically by particular technologies, artifacts, economic systems, trade relationships, burial practices, and other aspects of culture.

While it is not certain when humans first came to California, their presence in southern California by about 11,000 B.P. has been well documented. At Daisy Cave, on San Miguel Island, cultural remains have been radiocarbon dated to between 11,100 and 10,950 B.P. (Byrd and Raab, 2007). The first evidence of human occupation in the Los Angeles area dates to at least 9,000 years B.P. and is associated with the Millingstone cultures (Wallace, 1955; Warren, 1968). Millingstone cultures were characterized by the collection and processing of plant foods, particularly acorns, and the hunting of a wider variety of game animals (Byrd and Raab, 2007; Wallace, 1955). Millingstone cultures also established more permanent settlements that were located primarily on the coast and in the vicinity of estuaries, lagoons, lakes, streams, and marshes where a variety of resources, including seeds, fish, shellfish, small mammals, and birds, were exploited. Early Millingstone occupations are typically identified by the presence of handstones (manos) and millingstones (metates), while those Millingstone occupations dating later than 5,000 B.P. contain a mortar and pestle complex as well, signifying the exploitation of acorns in the region.

During the Middle Holocene (8,000 to 4,000 B.P.), there is evidence for the processing of acorns for food and a shift toward a more generalized economy. Around 7,000 B.P., the climate of southern California became warmer and more arid and the human population, residing mainly in coastal or inland desert areas, began exploiting a wider range of plant and animal resources (Byrd and Raab, 2007).

During the Late Holocene (4,000 B.P. to A.D. 1769), many aspects of Millingstone culture persisted, but a number of socioeconomic changes occurred (Erlandson, 1994; Wallace, 1955; Warren, 1968). The native populations of southern California were becoming less mobile and populations began to gather in small sedentary villages with satellite resource-gathering camps. Increasing population size necessitated the intensified use of existing terrestrial and marine resources (Erlandson, 1994). Evidence indicates that the overexploitation of larger, high-ranked food resources may have led to a shift in subsistence, towards a focus on acquiring greater amounts of smaller resources, such as shellfish and small-seeded plants (Byrd and Raab, 2007). Around 1,000 B.P., there was an episode of sustained drought, known as the Medieval Climatic Anomaly. While this climatic event did not appear to reduce the human population, it did lead to a change in subsistence strategies in order to deal with the substantial stress on resources. The Late Holocene marks a period in which specialization in labor emerged, trading networks became an increasingly important means by which both utilitarian and non-utilitarian materials were acquired, and travel routes were extended. Trading reached its zenith during this time period, with asphaltum (tar), seashells and steatite being exchanged from southern California to the Great Basin. Major technological changes appeared as well, particularly with the advent of the bow and arrow, which largely replaced the use of the dart and atlatl. Small projectile points, ceramics, including Tizon brownware pottery, and obsidian from Obsidian Butte (Imperial County), are all representative artifacts of the Late Holocene.

Ethnographic Setting

The proposed Project Site is located in a region traditionally occupied by the Takic-speaking Gabrielino Indians. The term “Gabrielino” is a general term that refers to those Native Americans who were administered by the Spanish at the Mission San Gabriel Arcángel. Many contemporary Gabrielino identify themselves by the name “Tongva.” Prior to European colonization, the Gabrielino occupied a diverse area that included: the watersheds of the Los Angeles, San Gabriel, and Santa Ana rivers; the Los Angeles basin; and the islands of San Clemente, San Nicolas, and Santa Catalina (Kroeber, 1925). Their neighbors included the Chumash to the north, the Juañeno to the south, and the Serrano and Cahuilla to the east. The Gabrielino are reported to have been second only to the Chumash in terms of population size and regional influence (Bean and Smith, 1978). The Gabrielino language, like the Tataviam language, was part of the Takic branch of the Uto-Aztecan language family.

The Gabrielino Indians were hunter-gatherers and lived in permanent communities located near the presence of a stable food supply. Subsistence consisted of hunting, fishing, and gathering. Small terrestrial game were hunted with deadfalls, rabbit drives, and by burning undergrowth, while larger game such as deer were hunted using bows and arrows. Fish were taken by hook and line, nets, traps, spears, and poison (Bean and Smith, 1978). The primary plant resources were the acorn, gathered in the fall and processed in mortars and pestles, and various seeds that were harvested in late spring and summer and ground with manos and metates. The seeds included chia and other sages, various grasses, and islay or holly-leafed cherry.

Community populations generally ranged from 50 to 100 inhabitants, although larger settlements may have existed. The Gabrielino are estimated to have had a population numbering around 5,000

in the pre-contact period (Kroeber, 1925). Villages are reported to have been the most abundant in the San Fernando Valley, the Glendale Narrows area north of downtown, and around the Los Angeles River's coastal outlets (Gumprecht, 2001).

Historic Setting

Spanish Period (A.D. 1769-1821)

Although Spanish explorers made brief visits the region in 1542 and 1602, sustained contact with Europeans did not commence until the onset of the Spanish Period. In 1769 Gaspar de Portolá led an expedition from San Diego, passing through the Los Angeles Basin and the San Fernando Valley, on its way to the San Francisco Bay (McCawley, 1996). This was followed in 1776 by the expedition of Father Francisco Garcés (Johnson and Earle, 1990).

In the late 18th century, the Spanish began establishing missions in California and forcibly relocating and converting native peoples. The nearest mission to the Project Site was Mission San Gabriel Arcángel, founded in 1771, located approximately 13 miles to the northeast.

In an effort to promote Spanish settlement of Alta California, Spain granted several large land concessions from 1784 to 1821. At this time, unless certain requirements were met, Spain retained title to the land (State Lands Commission [SLC], 1982).

Mexican Period (A.D. 1821-1848)

The Mexican Period began when Mexico won its independence from Spain in 1821. Mexico continued to promote settlement of California with the issuance of land grants. In 1833, Mexico began the process of secularizing the missions, reclaiming the majority of mission lands and redistributing them as land grants. According to the terms of the Secularization Law of 1833 and Regulations of 1834, at least a portion of the lands would be returned to the Native populations, but this did not always occur (Milliken et al., 2009).

Many ranchos continued to be used for cattle grazing by settlers during the Mexican Period. Hides and tallow from cattle became a major export for Californios (native Hispanic Californians), many of whom became wealthy and prominent members of society. The Californios led generally easy lives, leaving the hard work to vaqueros (Hispanic cowhands) and Indian laborers (Pitt, 1994; Starr, 2007).

American Period (A.D. 1848-present)

In 1846, the Mexican-American War broke out. Mexican forces were eventually defeated in 1847 and Mexico ceded California to the United States as part of the Treaty of Guadalupe Hildalgo in 1848. California officially became part of the United States in 1850. While the treaty recognized the right of Mexican citizens to retain ownership of land granted to them by Spanish or Mexican authorities, the claimant was required to prove their right to the land before a patent was given. The process was lengthy and generally resulted in the claimant losing at least a portion of their land to attorney's fees and other costs associated with proving ownership (Starr, 2007).

When the discovery of gold in northern California was announced in 1848, a huge influx of people from other parts of North America flooded into California. The increased population provided an additional outlet for the Californios' cattle. As demand increased, the price of beef skyrocketed and Californios reaped the benefits. However, a devastating flood in 1861, followed by droughts in 1862 and 1864, led to a rapid decline of the cattle industry; over 70 percent of cattle perished during these droughts (McWilliams, 1946; Dinkelspiel, 2008). This event, coupled with the burden of proving ownership of their lands, caused many Californios to lose their lands during this period (McWilliams, 1946). Former ranchos were subsequently subdivided and sold for agriculture and residential settlement.

The first transcontinental railroad was completed in 1869, connecting San Francisco with the eastern United States. Newcomers poured into northern California. Southern California experienced a trickle-down effect, as many of these newcomers made their way south. The Southern Pacific Railroad extended the line from San Francisco to Los Angeles in 1876. The second transcontinental line, the Santa Fe, was completed in 1886 and caused a fare war, driving fares to an unprecedented low. Settlers flooded into the region and the demand for real estate skyrocketed. As real estate prices soared, land that had been farmed for decades outlived its agricultural value and was sold to become residential communities. The subdivision of the large ranchos took place during this time (Meyer, 1981; McWilliams, 1946). During the first three decades of the 20th century, more than 2 million people moved to Los Angeles County, transforming it from a largely agricultural region into a major metropolitan area.

Brief History of the Project Site

The Project Site was the location of the "Old Coliseum" or "Stadium East Grounds" prior to the construction of the original school buildings in 1917 (*Los Angeles Times*, 1915a*)*. The grounds held an amphitheater capable of seating about 20,000 to 25,000 individuals. The stadium appears to have been first erected in 1913 and modified or re-configured in 1914 or 1915 (*Los Angeles Times*, 1913a, 1914). It was used to host rodeos, charity events, demonstrations, plays and filming, and pageants (*Los Angeles Times*, 1913b, 1915b, 1915c, 1915d). The bullfighting scene from the 1915 movie *Carmen*, directed by Cecil B. de Mille, was filmed at the stadium with the audience serving as the spectators in the stands (*Los Angeles Times*, 1915e). In 1915, the stadium was used to host events designed to entertain tourists traveling between the Panama-California Exposition in San Diego and the Panama-Pacific International Exposition in San Francisco (*Los Angeles Times*, 1915f).

Later in 1915, the Project Site was identified as the location of the future Thomas Jefferson High School. The original school plans consisted of six buildings, including classics, science, manual arts, administration, and gymnasium buildings (*Los Angeles Times*, 1915g). A substantial part of the grounds were used for agricultural and horticultural activities in the early days of the school's history (*Los Angeles Times*, 1915g, Sanborn Fire Insurance Map, 1922). The original school buildings were severely damaged by the 1933 Long Beach Earthquake and the school was reconstructed in 1936. The new campus, built between 1935 and 1937, was designed in the Streamline Moderne style by architect Stiles O. Clements. The only building that remains from the original 1916-1917 construction is Building 8 – Power House (LAUSD, 2015).

Regulatory Framework

State

California Environmental Quality Act

CEQA is the principal statute governing environmental review of projects occurring in the State and is codified at *Public Resources Code (PRC) Section 21000 et seq.* CEQA requires lead agencies to determine if a proposed project would have a significant effect on the environment, including significant effects on historical or unique archaeological resources.

Under CEQA (Section 21084.1), a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. An archaeological resource may qualify as an "historical resource" under CEQA. The *CEQA Guidelines* (Title 14 California Code of Regulations [CCR] Section 15064.5) recognize that an historical resource includes: (1) a resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (California Register); (2) a resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the requirements of PRC Section 5024.1(g); and (3) any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California by the lead agency, provided the lead agency's determination is supported by substantial evidence in light of the whole record. The fact that a resource does not meet the three criteria outlined above does not preclude the lead agency from determining that the resource may be an historical resource as defined in PRC Sections 5020.1(j) or 5024.1.

If a lead agency determines that an archaeological site is a historical resource, the provisions of Section 21084.1 of CEQA and Section 15064.5 of the *CEQA Guidelines* apply. If a project may cause a substantial adverse change (defined as physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired) in the significance of an historical resource, the lead agency must identify potentially feasible measures to mitigate these effects (*CEQA Guidelines* Sections 15064.5(b)(1), 15064.5(b)(4)).

If an archaeological site does not meet the criteria for a historical resource contained in the *CEQA Guidelines*, then the site may be treated in accordance with the provisions of Section 21083, which is as a unique archaeological resource. As defined in Section 21083.2 of CEQA a "unique" archaeological resource is an archaeological artifact, object, or site, about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information;

- Has a special and particular quality such as being the oldest of its type or the best available example of its type; or,
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological site meets the criteria for a unique archaeological resource as defined in Section 21083.2, then the site is to be treated in accordance with the provisions of Section 21083.2, which state that if the lead agency determines that a project would have a significant effect on unique archaeological resources, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place (Section 21083.1(a)). If preservation in place is not feasible, mitigation measures shall be required.

The *CEQA Guidelines* note that if an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment (*CEQA Guidelines* Section 15064.5(c)(4)).

Paleontological Resources

The CEQA Guidelines (Title 14, Chapter 3 of the California Code of Regulations, Section 15000 *et seq*.), define the procedures, types of activities, individuals, and public agencies required to comply with CEQA. As part of CEQA's Initial Study process, one of the questions that must be answered by the lead agency relates to paleontological resources: "Will the proposed project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?" (CEQA Guidelines Section 15023, Appendix G, Section XIV, Part a).

The loss of any identifiable fossil that could yield information important to prehistory, or that embodies the distinctive characteristics of a type of organism, environment, period of time, or geographic region, would be a significant environmental impact. Direct impacts to paleontological resources primarily concern the potential destruction of nonrenewable paleontological resources and the loss of information associated with these resources. This includes the unauthorized collection of fossil remains. If potentially fossiliferous bedrock or surficial sediments are disturbed, the disturbance could result in the destruction of paleontological resources and subsequent loss of information (significant impact). At the project-specific level, direct impacts can be mitigated to a less than significant level through the implementation of paleontological mitigation.

The CEQA threshold of significance for a significant impact to paleontological resources is reached when a project is determined to "directly or indirectly destroy a significant paleontological resource or unique geologic feature." In general, for projects that are underlain by paleontologically sensitive geologic units, the greater the amount of ground disturbance, the higher the potential for significant impacts to paleontological resources. For projects that are directly underlain by geologic units with no paleontological sensitivity, there is no potential for impacts on paleontological resources unless sensitive geologic units which underlie the non-sensitive unit are also affected.

California Register of Historical Resources

The California Register is "an authoritative listing and guide to be used by State and local agencies, private groups, and citizens in identifying the existing historical resources of the State and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1[a]). The criteria for eligibility for the California Register are based upon National Register criteria (PRC Section 5024.1[b]). Certain resources are determined by the statute to be automatically included in the California Register, including California properties formally determined eligible for, or listed in, the National Register.

To be eligible for the California Register, a prehistoric or historic-period property must be significant at the local, state, and/or federal level under one or more of the following four criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. Is associated with the lives of persons important in our past;
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. Has yielded, or may be likely to yield, information important in prehistory or history.

A resource eligible for the California Register must meet one of the criteria of significance described above, and retain enough of its historic character or appearance (integrity) to be recognizable as a historical resource and to convey the reason for its significance. It is possible that a historic resource may not retain sufficient integrity to meet the criteria for listing in the National Register, but it may still be eligible for listing in the California Register.

Additionally, the California Register consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The California Register automatically includes the following:

- California properties listed on the National Register and those formally determined eligible for the National Register;
- California Registered Historical Landmarks from No. 770 onward; and,
- Those California Points of Historical Interest that have been evaluated by the OHP and have been recommended to the State Historical Commission for inclusion on the California Register.

Other resources that may be nominated to the California Register include:

- Historical resources with a significance rating of Category 3 through 5 (those properties identified as eligible for listing in the National Register, the California Register, and/or a local jurisdiction register);
- Individual historical resources;
- Historical resources contributing to historic districts; and,

- Historical resources designated or listed as local landmarks, or designated under any local ordinance, such as an historic preservation overlay zone.

Assembly Bill 52 and Related Public Resources Code Sections

Assembly Bill (AB) 52 was approved by California State Governor Edmund Gerry "Jerry" Brown, Jr. on September 25, 2014. The act amended California PRC Section 5097.94, and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 applies specifically to projects for which a Notice of Preparation (NOP) or a Notice of Intent to Adopt a Negative Declaration or Mitigated Negative Declaration (MND) will be filed on or after July 1, 2015. The primary intent of AB 52 was to include California Native American Tribes early in the environmental review process and to establish a new category of resources related to Native Americans that require consideration under CEQA, known as tribal cultural resources. PRC Section 21074(a)(1) and (2) defines tribal cultural resources as "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe" that are either included or determined to be eligible for inclusion in the California Register or included in a local register of historical resources, or a resource that is determined to be a tribal cultural resource by a lead agency, in its discretion and supported by substantial evidence. On July 30, 2016, the California Natural Resources Agency adopted the final text for tribal cultural resources update to Appendix G of the CEQA Guidelines, which was approved by the Office of Administrative Law on September 27, 2016.

PRC Section 21080.3.1 requires that within 14 days of a lead agency determining that an application for a project is complete, or a decision by a public agency to undertake a project, the lead agency provide formal notification to the designated contact, or a tribal representative, of California Native American Tribes that are traditionally and culturally affiliated with the geographic area of the project (as defined in PRC Section 21073) and who have requested in writing to be informed by the lead agency (PRC Section 21080.3.1(b)). Tribes interested in consultation must respond in writing within 30 days from receipt of the lead agency's formal notification and the lead agency must begin consultation within 30 days of receiving the tribe's request for consultation (PRC Sections 21080.3.1(d) and 21080.3.1(e)).

PRC Section 21080.3.2(a) identifies the following as potential consultation discussion topics: the type of environmental review necessary; the significance of tribal cultural resources; the significance of the project's impacts on the tribal cultural resources; project alternatives or appropriate measures for preservation; and mitigation measures. Consultation is considered concluded when either: (1) the parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or (2) a party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached (PRC Section 21080.3.2(b)).

If a California Native American tribe has requested consultation pursuant to Section 21080.3.1 and has failed to provide comments to the lead agency, or otherwise failed to engage in the consultation process, or if the lead agency has complied with Section 21080.3.1(d) and the California Native American tribe has failed to request consultation within 30 days, the lead agency may certify an EIR or adopt an MND (PRC Section 21082.3(d)(2) and (3)).

PRC Section 21082.3(c)(1) states that any information, including, but not limited to, the location, description, and use of the tribal cultural resources, that is submitted by a California Native American tribe to the lead (or public) agency during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public without the prior consent of the tribe that provided the information. If the lead agency publishes any information submitted by a California Native American tribe during the consultation or environmental review process, that information shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public.

California Health and Safety Code Section 7050.5

California Health and Safety Code Section 7050.5 requires that in the event human remains are discovered, the County Coroner be contacted to determine the nature of the remains. In the event the remains are determined to be Native American in origin, the Coroner is required to contact the California Native American Heritage Commission (NAHC) within 24 hours to relinquish jurisdiction.

California Public Resources Code Section 5097.98

California PRC Section 5097.98, as amended by Assembly Bill 2641, provides procedures in the event human remains of Native American origin are discovered during project implementation. PRC Section 5097.98 requires that no further disturbances occur in the immediate vicinity of the discovery, that the discovery is adequately protected according to generally accepted cultural and archaeological standards, and that further activities take into account the possibility of multiple burials. PRC Section 5097.98 further requires the NAHC, upon notification by a County Coroner, designate and notify a Most Likely Descendant (MLD) regarding the discovery of Native American human remains. Once the MLD has been granted access to the site by the landowner and inspected the discovery, the MLD then has 48 hours to provide recommendations to the landowner for the treatment of the human remains and any associated grave goods.

In the event that no descendant is identified, or the descendant fails to make a recommendation for disposition, or if the land owner rejects the recommendation of the descendant, the landowner may, with appropriate dignity, reinter the remains and burial items on the property in a location that will not be subject to further disturbance.

Public Resources Code Section 5097.5 and Section 30244

Other State requirements for paleontological resource management are included in PRC Section 5097.5 and Section 30244. These statutes prohibit the removal of any paleontological site or feature from public lands without permission of the jurisdictional agency, define the removal of paleontological sites or features as a misdemeanor, and require reasonable mitigation of adverse impacts to paleontological resources from developments on public (State, county, city, district) lands.

Local

City of Los Angeles General Plan

The City of Los Angeles General Plan (adopted 2001) states as its objective, to "protect the city's archaeological and paleontological resources for historical, cultural, research, and/or educational purposes" by continuing "to identify and protect significant archaeological and paleontological resources known to exist or that are identified during land development, demolition, or property modification activities."

In addition, the City will:

> *continue to protect historic and cultural sites and/or resources potentially affected by proposed land development, demolition, or property modification activities…The city's environmental guidelines require the applicant to secure services of a bona fide archaeologist to monitor excavations or other subsurface activities associated with a development project in which all or a portion is deemed to be of archaeological significance. Discovery of archaeological materials may temporarily halt the project until the site has been assessed, potential impacts evaluated and, if deemed appropriate, the resources protected, documented and/or removed* (City of Los Angeles, 2001).

The General Plan also contains the following statement regarding paleontological resources:

> *Pursuant to CEQA, if a land development project is within a potentially significant paleontological area, the developer is required to contact a bona fide paleontologist to arrange for assessment of the potential impact and mitigation of potential disruption of or damage to the site. If significant paleontological resources are uncovered during project execution, authorities are to be notified and the designated paleontologist may order excavations stopped, within reasonable time limits, to enable assessment, removal or protection of the resources. For Los Angeles city and county, the Los Angeles County Museum of Natural History, including the George C. Page Museum, provides advice concerning paleontological resources.*

In addition, the Los Angeles Municipal Code (LAMC) Section 91.106.4.5 states that the Building Department "shall not issue a permit to demolish, alter or remove a building or structure of historical, archaeological or architectural consequence if such building or structure has been officially designated" by a federal, State, or local authority.

LAUSD

The SUP Program EIR was certified by LAUSD on November 10, 2015.[3] The overall purpose of the EIR was to inform LAUSD (lead agency), responsible agencies, decision makers, and the general public of the potential environmental effects from implementation of the SUP, and to streamline future CEQA compliance. The SUP Program EIR included Standard Conditions to

[3] LAUSD. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

provide sufficient performance standards for future projects to reduce environmental impacts. The following Standard Conditions are applicable to archaeological and paleontological resources.

TABLE 1
SUP PROGRAM EIR – APPLICABLE CULTURAL RESOURCES STANDARD CONDITIONS

Reference	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
SC-CUL-7	Archaeological Resource	Project area is deemed highly sensitive for archaeological resources.	Prior to and during grading, excavation, or other ground disturbing activities	LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39).
SC-CUL-8	Historic and Archaeological Resource	Historical or unique archaeological resources are discovered during construction activities.	During grading, excavation, or other ground disturbing activities	The contractor shall halt construction activities in the immediate area and notify the LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the building site while evaluation and treatment of historical or unique archaeological resources takes place.
SC-CUL-9	Archaeological Resource Monitoring Program	Phase I Archaeological Site Investigation shows a strong possibility that unique resources, and/or unique architectural resources have been identified on a site.	Prior to the start of construction	LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique architectural resources have been identified on a site, but LAUSD does not implement a Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program.
SC-CUL-10	Archaeological Resource	Evidence of prehistoric or historic cultural resources is uncovered.	During grading, excavation, or other ground disturbing activities	All work shall stop within a 30 foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed Project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton.
SC-CUL-11	Archaeological Resource	Project construction requires archaeological monitoring	Prior to the start grading, excavation, or other ground disturbing activities	Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil disturbance. This training shall review the types of archaeological resources that

Reference	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
				might be found, along with laws for the protection of resources.
SC-CUL-12	Archaeological Resource	Unique archaeological resources are discovered and LAUSD determines not to avoid them by abandoning the site or redesigning the Project	During grading, excavation, or other ground disturbing activities	LAUSD shall determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by a Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation shall be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor shall be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors.
SC-CUL-13	Native American Resource	Evidence of Native American Resources is Uncovered	During grading, excavation, or other ground-disturbing activities (Construction)	All work shall stop within a 30 foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources.
SC-CUL-14	Paleontological Resource	Cultural Resources Assessment identifies the Project area as sensitive for paleontological resources.	During grading, excavation, or other ground disturbing activities	LAUSD shall have paleontological monitor on-call during construction activities. This monitor shall provide the construction crew(s) with a brief summary of the sensitivity, the rationale behind the need for protection of these resources, and information on the initial identification of paleontological resources. If paleontological resources are uncovered during construction, the on-call paleontologist shall be notified and afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to ensure the protection of any other resources that may be in the area.
SC-CUL-15	Paleontological Resource	Project area is deemed highly sensitive for paleontological resources.	During grading, excavation, or other ground disturbing activities	The paleontological monitor shall be on site for all ground altering activities and shall advise LAUSD as to necessary means of protecting potentially significant paleontological resources, including, but not limited to, possible cessation of construction activities in the immediate area of a find. If resources are identified during the monitoring program, the paleontologist shall be afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to insure the protection of any other resources that may be in the area.

Society for Vertebrate Paleontology Professional Standards

The Society for Vertebrate Paleontology (SVP) has established standard guidelines for acceptable professional practices in the conduct of paleontological resource assessments and surveys, monitoring and mitigation, data and fossil recovery, sampling procedures, and specimen preparation, identification, analysis, and curation. Most practicing professional paleontologists in the nation adhere closely to the SVP's assessment, mitigation, and monitoring requirements as specifically provided in its standard guidelines. Most California State regulatory agencies accept the SVP standard guidelines as a measure of professional practice.

Archival Research

SCCIC Records Search

A records search for the proposed Project was conducted on January 25, 2016 at the California Historic Resources Inventory System (CHRIS) South Central Coastal Information Center (SCCIC) housed at California State University, Fullerton (**Appendix B**). The records search included a review of all recorded archaeological sites within a ½-mile radius of the proposed Project, as well as a review of cultural resource reports on file. In addition, the California Points of Historical Interest (PHI), the California Historical Landmarks (CHL), the California Register of Historic Resources (California Register), the National Register, and the California State Historic Resources Inventory (HRI) listings were reviewed for properties within or adjacent to the proposed Project site.

Previous Cultural Resources Investigations

The records search indicates that 27 cultural resources studies have been conducted within a ½-mile of the proposed Project (**Table 2**). One hundred percent of the ½-mile records search area has been included in previous studies. Of the 27 studies, three included (LA-02838, -03019, and -04097) portions of the proposed Project. The entire proposed Project Site has been included in past cultural resources studies.

TABLE 2
PREVIOUS CULTURAL RESOURCES INVESTIGATIONS WITHIN 1/2 MILE OF THE PROPOSED PROJECT

Author	SCCIC # (LA-)	Title	Date
Anonymous	04097*	*Council District Nine Revitalization/Recovery Program Final Environmental Impact Report*	1995
Arrington, Cindy and Nancy Sikes	8255	*Cultural Resources Final Report of Monitoring and Findings for the Qwest Network Construction Project State of California: Volumes I and II*	2006
Bonner, Wayne H.	8538	*Cultural Resource Records Search Results and Site Visit for Sprint Nextel Candidate Ca5524d (Staunton), 2645 Nevin Avenue, Los Angeles, Los Angeles County, California*	2005
Bonner, Wayne H.	7717	*Cultural Resources Records Search Results and Site Visit for T-Mobile Candidate La03339a (Bilal Center), 4016 South Central Avenue, Los Angeles, Los Angeles County, California*	2006
Bonner, Wayne H.	7764	*Cultural Resources Records Search Results and Site Visit for Royal Street Communications, LLC Candidate La0200a (more 4 Less), 4415 South Central Avenue, Los Angeles, Los Angeles County, California*	2006

Author	SCCIC # (LA-)	Title	Date
Bonner, Wayne H.	11583	*Cultural Resources Records Search and Site Visit Results for AT&T Mobility, LLC Facility LA0004-01, USID 24287 (E Jefferson-E34th), 1046 East 34th Street, Los Angeles,*	2011
Bonner, Wayne H.	12010	*Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate LA02661A (LA661 South Central) 2510 South Central Avenue, Los Angeles, California*	2012
Bonner, Wayne H.	12046	*Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate LA33677B (Phillips Church), 971 East 43rd Street, Los Angeles, Los Angeles County, California*	2012
Bonner, Wayne H. and Kathleen A. Crawford	10237	*Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidate LA33677B (Phillips Church), 971 East 43rd Street Los Angeles, California*	2009
Bonner, Wayne H. and Kathleen A. Crawford	10379	*Cultural Resource Records Search, Site Visit Results, and Direct APE Historic Architectural Assessment for Clearwire Candidate CALOS6176/CA6517, 1109 East Vernon Avenue, Los Angeles, Los Angeles County, California*	2009
Chavez, David	1415	*Cultural Resources Evaluation for the Los Angeles Central City Resource Recovery Facility (Lancer EIR) Los Angeles, California*	1984
Duke, Curt	6468	*Cultural Resource Assessment AT&T Wireless Services Facility No. 04049a-02 Los Angeles County, California*	2002
Game, Emily, Edward J. Knell, and Kevin Hunt	9481	*Cultural Resources Survey and Testing for the 41st Place and Alameda Project, Los Angeles County, California*	2007
Greenwood, Roberta S., Scott Savastio, and Peter Messik	10506	*Cultural Resources Monitoring: North Outfall Sewer - East Central Interceptor Sewer Project*	2004
Foster, John M.	7420	*Archaeological Investigation for Council District 9 Neighborhood City Hall City of Los Angeles, California (W.O. E160178a)*	2005
Horne, Melinda C.	11409	*Construction Phase Cultural Resources Monitoring and Treatment Plan for the City of Los Angeles North Outfall - East Central Interceptor Sewer Project*	2009
Love, Bruce	4738	*Historic Building Study Report Former Angeles Funeral Home History, Existing Conditions, and Rehabilitation Guidelines 1010/1030 E. Jefferson Boulevard, Los Angeles County, California*	1999
McKenna, Jeanette A.	7537	*Historic Cultural Resources Study: the Los Angeles Unified School District Central Region Middle School No. 7, Located at Compton Avenue and Adams Boulevard in the City of Los Angeles, Los Angeles County, California*	2005
Supernowicz, Dana E.	8144	*Cultural Resources Study of the Honduras Old Bank Building Project Nextel Site No.Ca5580, 2510 S. Central Avenue, Los Angeles, Los Angeles County, California 90011*	2006
Supernowicz, Dana	11417	*Cultural Resources Study of the Israel Baptist Church Project AT&T Mobility Site No. EL0326 4501 Compton Avenue, Los Angeles County, California*	2011
Starzak, Richard, Alma Carlisle, Gail Miller, Catherine Barner, and Jessica Feldman	10887	*Historic Property Survey Report for the North Outfall Sewer-East Central Interceptor Sewer, City of Los Angeles, County of Los Angeles, California*	2001
Wlodarski, Robert J.	2577	*Results of a Records Search Phase Conducted for the Proposed Alameda Corridor Project, Los Angeles County, California*	1992
Wlodarski, Robert J.	2644	*The Results of a Phase 1 Archaeological Study for the Proposed Alameda Transportation Corridor Project, Los Angeles County, California*	1992
Wlodarski, Robert J.	02838*	*Results of a Phase 1 Archaeological Study for the Proposed East Central Interceptor Sewer Project, East-west Alignment, Los Angeles County, California*	1993
Wlodarski, Robert J.	03019*	*Results of a Phase I Archaeological Study for the Proposed East Central Interceptor Sewer Project, East-west Alignment, Los Angeles County, California*	1994

Author	SCCIC # (LA-)	Title	Date
Wlodarski, Robert J.	7882	*Record Search and Field Reconnaissance for the Proposed Royal Street Communications Wireless Telecommunications Site La00167 (2500 S. Central), Located at 2500-2516 South Central Avenue, Los Angeles, California*	2006
Wood, Catherine M.	8268	*Archaeological Survey Report for the Adams and Central Mixed-use Development Project Located at 1011 E. Adams Boulevard Los Angeles, California*	2007

*Indicates study overlaps proposed Project

Previously Recorded Cultural Resources

The records search results indicate that two archaeological resources (P-19-003822/CA-LAN-3822H and P-19-003389/CA-LAN-3889/H) have been previously recorded within the ½-mile radius, neither of which are located within the proposed Project Site. P-19-003822/CA-LAN-3822H, located approximately 0.15 mile from the Project Site, is a historic-period archaeological site and consists of five subsurface refuse deposits containing domestic items dating to the early 20th century. P-19-003389/CA-LAN-3889/H, located approximately 0.4 mile from the Project Site, is a multicomponent archaeological site and consists of a historic-period refuse scatter dating to the early 20th century and a prehistoric lithic scatter.

LACM Records Search

A paleontological records search was conducted by the Natural History Museum of Los Angeles County (LACM) on January 27, 2016 (**Appendix C**). The results indicate that no fossil localities are located within a 1-mile radius of the proposed Project Site. Surficial deposits within the proposed Project Site are composed of younger Quaternary alluvium (Qa) derived from floodplain deposits of the Los Angeles River that flows within the proposed Project Site (Dibblee and Ehrenspeck, 1989; 1991). These younger deposits typically do not contain significant vertebrate fossils; however, they are likely underlain by older Quaternary fluvial deposits (Qoa) which typically do contain significant vertebrate fossil remains (McLeod, 2016).

The LACM reported several vertebrate fossil localities in older Quaternary deposits near the proposed Project Site. The nearest fossil locality in these deposits is LACM 1755, which is approximately 2.0 miles from the proposed Project Site and yielded a fossil specimen of horse (*Equus*) at unknown depth below the current ground surface. The next closest vertebrate locality is LACM 7758, which is located approximately 3.4 miles from the proposed Project Site and produced fossil specimens of three-spine stickleback (*Gasterosteus aculeatus*), meadow vole (*Microtus*), deer mouse (*Peromyscus*), pocket gopher (*Thomomys*), and pocket mouse (*Perognathus*) at a depth of 16 feet below the surface. LACM 7701-7702 are located approximately 4.25 miles from the proposed Project Site and produced fossil specimens of threespine stickleback (*Gasterosteus aculeatus*), salamander (*Batrachoseps*), lizard (*Lacertilia*), snake (*Colubridae*), rabbit (*Sylvilagus*), pocket mouse (*Microtus*), harvest mouse (*Reithrodontomys*), and pocket gopher (*Thomomys*), at depths of 11 to 34 feet below grade (McLeod, 2016). According to the records search results, substantial excavation below the

uppermost layers and into the older Quaternary (Qoa) deposits has the potential to unearth significant vertebrate fossils (McLeod, 2016).

Additional Research

Historic Map and Aerial Review

Historic maps and aerial photographs were examined in order to provide historical information about the proposed Project Site and vicinity, and to contribute to an assessment of the proposed Project's archaeological sensitivity. Available historic topographic maps include: 1894 Los Angeles 30-minute topographic quadrangle; 1896 Pasadena 15-minute topographic quadrangle; 1898 Santa Monica 15-minute topographic quadrangle; 1928 and 1952 Los Angeles 7.5-minute topographic quadrangles; and 1953 and 1966 Hollywood 7.5-minute topographic quadrangles (USGS, 1894, 1896, 1898, 1928, 1952, 1953, and 1966). Sanborn Fire Insurance maps were available for the years 1922 and 1950 (Los Angeles Public Library, 2017). Historic aerial photographs were available for the years 1948, 1952, 1964, 1972, 1980, 1994, and 2012 (Nationwide Environmental Title Research, 2017). Topographic maps indicate that the Project vicinity was developed as early 1894; early uses of the Project Site as a coliseum are not reflected on the topographic maps. Thomas Jefferson High School appears on the 1922 and 1950 Sanborn maps. Historic aerials reflect onsite changes to the school campus since 1948.

Paleontological Resources Literature Review

A desktop review was conducted to identify nearby paleontological localities from late Pleistocene (approximately 126,000-12,000 years ago) sediments similar to those underlying the Project Site. The review revealed more than a dozen Pleistocene vertebrate localities yielding a multitude of ice age animals, including but not limited to: mammoths, giant ground sloths, horses, camels, bison, saber-tooth cats, rodents, birds, reptiles, and amphibians. No unique geologic features were identified in the Project Site (Miller, 1971; Jefferson, 1991a, b; Scott and Cox, 2008).

Geotechnical Investigation Review

A report prepared by Gorian and Associates, Inc. (2015) detailing the results of a geotechnical investigation was reviewed. Five geotechnical borings were drilled to depths of approximately 26 to 51½ feet below the existing ground surface (bgs) to evaluate the underlying soil conditions of the Project Site.

The borings indicate that artificial fill containing "debris"[4] is present at varying depths up to approximately 2.5 feet bgs. Beneath pavement, fill, or grass, younger alluvial deposits were encountered to the maximum depth of each boring. The alluvium generally consists of silty sand in a damp and loose to medium dense condition. The silty sand continued to a depth of 6 to 12 feet where it was underlain by a fine to coarse poorly graded sand that is generally damp and medium dense. The poorly graded sand was generally underlain by interbedded layers of silty

[4] Debris includes concrete and other building materials and may indicate the presence of subsurface historic-period archaeological deposits.

sand and sand that became denser with depth. In one boring (B-4) the poorly graded sand was underlain by clayey silty, more poorly graded sand and interbeds of silty sand, clayey sand and poorly graded sand (Gorian and Associates, Inc., 2015).

The report indicated that site preparation for one- or two-story construction and modernization of existing structures would generally not require deep excavations for soil removals. The report also indicated that if testing of exposed ground surfaces during site cleanup indicated that the underlying soil was inadequate to support the proposed construction, soil removals may be necessary.

Native American Outreach

The NAHC maintains a confidential Sacred Lands File (SLF) which contains sites of traditional, cultural, or religious value to the Native American community. The NAHC was contacted on January 25, 2016 to request a search of the SLF. The NAHC responded to the request in a letter dated January 28, 2016 (**Appendix D**). The SLF results indicate that no Native American cultural resources are known to be located within the proposed Project Site. The letter also included a list of Native American contacts.

Contact letters to all individuals and groups indicated by the NAHC as having affiliation with the proposed Project Site were prepared and mailed on February 4, 2016. The letters described the proposed Project and included a map depicting the location of the proposed Project Site. Recipients were requested to reply with any information they are able to share about Native American resources that might be affected by the proposed Project. To date, no responses have been received. All correspondence is included in Appendix D.

Conclusion and Recommendations

Archaeological Resources

No known archaeological resources were identified within the Project Site as a result of this study; however background research conducted for the Project indicates that the Project Site has a high potential for the presence of buried historic-period archaeological resources, particularly in open spaces, landscaped areas, and paved areas where previous ground disturbance is likely to have been shallow or cultural deposits may have been capped.

The Project Site was once the location of the “Old Coliseum” that included an amphitheater erected as early as 1913. It was the location of rodeos, charity events, demonstrations, plays and filming, as well as the bullfighting scene from the 1915 movie *Carmen*, directed by Cecil B. de Mille. In 1915, Project Site housed events related to the Panama-California Exposition in San Diego and the Panama-Pacific International Exposition in San Francisco. Geotechnical investigations conducted for the Project Site indicate that “debris” (and indicator of the presence of historic-period archaeological resources) is present at varying depths up to approximately 2.5 feet bgs. This confirms that there may be cultural materials, such as refuse deposits and building or structural foundations related to the “Old Coliseum” or other early 1900s structures, present within the Project Site. As such, the Project Site is considered to have a high sensitivity for the

presence of significant archaeological resources related to early 1900s Los Angeles' recreational and educational activities.

Since the Project includes ground disturbance, it could result in a significant impact to archaeological resources that qualify as historical resources or unique archaeological resources under CEQA. As such, LAUSD's Standard Conditions of Approval (SCs), SC-CUL-7 through SC-CUL-13 would be incorporated to ensure that impacts remain at levels that are less than significant:

> **SC-CUL-7:** LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39).
>
> **SC-CUL-8:** If historical or unique archaeological resources are discovered during construction activities, the contractor shall halt construction activities in the immediate area and notify the LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the building site while evaluation and treatment of historical or unique archaeological resources takes place.
>
> **SC-CUL-9:** LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique architectural resources have been identified on a site, but LAUSD does not implement a Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program.
>
> **SC-CUL-10:** If evidence of prehistoric or historic cultural resources is uncovered, all work shall stop within a 30 foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed Project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton.
>
> **SC-CUL-11:** Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil

disturbance. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources.

SC-CUL-12: If archeological resources qualifying as unique archaeological resources are discovered and LAUSD determines not to avoid them by abandoning the site or redesigning the Project, LAUSD will determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by the Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation will be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor will be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors.

SC-CUL-13: If evidence of Native American resources is uncovered during construction, then all work shall stop within a 30 foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources.

Paleontological Resources

No paleontological resources were identified within the Project Site. Background research conducted for the Project indicates that the proposed Project is underlain by younger Quaternary alluvium derived from floodplain deposits, which are likely underlain by older Quaternary fluvial deposits. The younger deposits to do not typically contain significant fossil specimens; however, the older fluvial deposits have been shown to contain significant vertebrate fossil remains. Shallow excavations (<10 feet) are not likely to impact older sediments that have high potential to yield paleontological resources and the new buildings would be developed in areas that have been previously disturbed with buildings and infill for the existing campus. However, given the preponderance of ice age mammals from similar sediments in the Los Angeles Basin, there is a potential for encountering paleontological resources at deeper depths (>10 feet) and the proposed Project could result in a significant impact to unique paleontological resources under CEQA. As such, SC-CUL-14 and SC-CUL-15 (for excavations in excess of 10 feet) , would be incorporated to ensure that impacts remain at levels that are less than significant:

SC-CUL-14: LAUSD shall have paleontological monitor on-call during construction activities. This monitor shall provide the construction crew(s) with a brief summary of the sensitivity, the rationale behind the need for protection of these resources, and information on the initial identification of paleontological resources. If paleontological resources are uncovered during construction, the on-call paleontologist shall be notified and afforded the necessary time and funds to recover, analyze, and curate the find(s).

Subsequently, the monitor shall remain on site for the duration of the ground disturbances to ensure the protection of any other resources that may be in the area.

SC-CUL-15: The paleontological monitor shall be on site for all ground altering activities and shall advise LAUSD as to necessary means of protecting potentially significant paleontological resources, including, but not limited to, possible cessation of construction activities in the immediate area of a find. If resources are identified during the monitoring program, the paleontologist shall be afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to insure the protection of any other resources that may be in the area.

Tribal Cultural Resources

No potential tribal cultural resources have been identified within the Project Site. However, SC-TCR-1 would be implemented into the Project in order to address any unanticipated tribal cultural resources that may be discovered during subsurface activities.

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APPENDIX A

Personnel

Monica Strauss, RPA

Director, Southern California Cultural Resources Group

EDUCATION

M.A., Archaeology, California State University, Northridge

B.A., Anthropology, California State University, Northridge

AA, Humanities, Los Angeles Pierce College

20 YEARS EXPERIENCE

SPECIALIZED EXPERIENCE

Treatment of Historic and Prehistoric Human Remains

Archaeological Monitoring

Complex Shell Midden Sites

Groundstone Analysis

PROFESSIONAL AFFILIATIONS

Register of Professional Archaeologists (RPA), #12805

Society for California Archaeology (SCA)

Society for American Archaeology (SAA)

QUALIFICATIONS

Exceeds Secretary of Interior Standards

CA State BLM Permitted

Monica has successfully completed dozens of cultural resources projects throughout California and the greater southwest, where she assists clients in navigating cultural resources compliance issues in the context of CEQA, NEPA, and Section 106. Monica has extensive experience with archaeological resources, historic buildings and infrastructure, landscapes, and Tribal resources, including Traditional Cultural Properties. Monica manages a staff of cultural resources specialists throughout the region who conduct Phase 1 archaeological/paleontological and historic architectural surveys, construction monitoring, Native American consultation, archaeological testing and treatment, historic resource significance evaluations, and large-scale data recovery programs. She maintains excellent relationships with agency staff and Tribal representatives. Additionally, Monica manages a general compliance monitoring team who support clients and agencies in ensuring the daily in-field compliance of overall project mitigation measures.

Relevant Experience

Topock Compressor Station Remediation CEQA Services. Mohave County, AZ and San Bernardino County, CA. *Cultural Resources Project Director*. Monica is overseeing the preparation of cultural resources EIR sections and is providing project support to the California Department of Toxic Substances Control (DTSC), including facilitating Native American involvement. DTSC provides oversight of the site investigation and cleanup activities for the Pacific Gas and Electric Company (PG&E) Topock Gas Compressor Station, located in San Bernardino County, 15 miles southeast of Needles, California. Groundwater samples taken under and near the Station were found to be contaminated with hexavalent chromium and other chemicals as result of past disposal activities. Soils contamination is also present at the site, requiring investigation and cleanup. These activities are highly scrutinized by the regional Native American Tribes because the area has important cultural and religious significance. ESA is currently preparing an EIR for soil investigations and will be conducting CEQA evaluations that tier off of the Program EIR for the Groundwater Remedy. Additional project-specific EIRs may be required for the final remedy, which is currently undergoing engineering design. ESA will provide these services as well as lead the Native American and public participation efforts.

Los Angeles Department of Water and Power, Path 46 Clearance Surveys, San Bernardino, CA. *Field Director.* ESA has been tasked by Los Angeles Department of Water and Power (LADWP) to conduct required surveys for the Path 46 Transmission Line Clearances Project. The project's objective is to restore required code clearances to the transmission conductors, which will be accomplished by grading the ground surface underneath the transmission lines to achieve required height consistency. The work is being conducted in compliance with BLM guidelines and federal laws and statutes. Biological, archaeological, and paleontological resource surveys are currently being conducted for the 77

proposed grading areas, staging areas, and roads. Reports will be written documenting the results of the surveys and providing recommendations on the areas for access, staging areas, and soil distribution that would have the least amount of impacts on natural resources. Monica is providing support to LADWP in their coordination with the BLM, including providing oversight of map preparation, field surveys, and preparation of pre-field research designs and post-field technical reports.

Santa Clarita Valley Sanitation District, Facilities Plan Update EIR, Los Angeles County, CA. *Cultural Resources Senior Reviewer.* Monica is currently serving as senior reviewer for the Phase I cultural resources study for the project. The study identified 23 cultural resources within or adjacent to the project, including the historical San Fernando Road. The resources were documented and evaluated for their eligibility to the California Register in a technical report and the results were incorporated into the EIR. The project includes installation of an approximately 35-mile recycled water pipeline from the Santa Clarita Valley to east Los Angeles.

Ballona Wetlands Restoration EIS/EIR, Los Angeles County, CA. *Cultural Resources Project Director.* As part of the development of the restoration plan for the Ballona Wetlands, the ESA project team characterized existing conditions that included water and sediment sampling and analysis. The water and sediment quality sampling was performed to develop and evaluate potential restoration alternatives, and to develop a conceptual plan. The ESA project team compiled existing data on and conducted additional sampling for water and sediment to assess potential effects on the proposed wetland restoration habitat from the use of urban runoff and tidal in-flow from Ballona Creek. These data were used to complete a baseline report and restoration alternatives assessment. Monica is assisting the CSCC in fulfilling Army Corps of Engineers requirements under Section 106 of the National Historic Preservation Act. In addition, she is coordinating with Tribal members and is overseeing a team of resource specialists who are compiling cultural resources technical in preparation of the EIR's Cultural Resources section.

Bureau of Land Management, Soda Mountain Solar Project, San Bernardino County, CA. *Cultural Resources Director*. ESA prepared a joint EIS/EIR for a 358-megawatt (MW) photovoltaic (PV) solar power plant and related infrastructure on approximately 4,397 acres of public land administered by the BLM near the town of Baker and the Mojave National Preserve. The project includes a substation, switchyard, operations and maintenance buildings, and interconnection to a Los Angeles Department of Water and Power 500 kV transmission line. If BLM approves the requested ROW grant, it will be necessary for the BLM to amend the California Desert Conservation Area Plan to identify the ROW area as appropriate for the proposed solar energy development use. ESA also provided support to BLM related to cultural resources and Section 106 of the NHPA. Monica provided technical and compliance oversight for third-party review of cultural resources studies and for the cultural resources section of the joint EIS/EIR.

Los Angeles Department of Water and Power Moapa Road Repair Cultural and Biological Resources Assessment, Clark County, NV. *Project Director.* The Los Angeles Department of Water and Power (LADWP) is seeking to conduct roadway

repairs following flash flooding to several locations of LADWP transmission line access roads on Bureau of Land Management (BLM) lands. ESA conducted cultural and biological resources assessments to identify sensitive resources within the project area. Monica provided general oversight of the project and led the coordination with the BLM Las Vegas Field Office.

Santa Susana Field Laboratory, Ventura County, CA. *Cultural Resources Project Director.* The Santa Susana Field Laboratory is a former rocket engine test, nuclear, and liquid metals research facility located on a 2,849- acre portion of the Simi Hills in Simi Valley, California. The uses of hazardous substances such as trichloroethylene and other solvents, heavy metals, and radioactive material at the field laboratory have resulted in soil and/or groundwater contamination. The field laboratory is currently the focus of a comprehensive environmental investigation and cleanup program conducted by Boeing, the U.S. Department of Energy (DOE), and the National Aeronautics and Space Administration (NASA) and overseen by the Department of Toxic Substances Control (DTSC). ESA is preparing a Program EIR that will evaluate soil and groundwater remediation activities. Because there are multiple responsible parties with separate cleanup actions, the Program EIR will provide a framework for tiered environmental documents to be prepared to address the development and refinement of remediation approaches and actions. Monica is overseeing a team of specialists who are conducting a geoarcheological and archaeological district studies for use in addressing impacts to archaeological resources in the EIR. Monica provides strategic guidance to DTSC on cultural resources-related issues, including Tribal outreach, approach to the Traditional Cultural Property, resource evaluations, and treatment of cultural resources on a project and program level.

Los Angeles Department of Water and Power Lone Pine Landfill Paleontological Resources Recovery, Inyo County, CA. *Cultural Resources Project Director.* At the request of LADWP, ESA responded to a discovery of large mammal bone at the Lone Pine Landfill in an area where borrow materials were being excavated. ESA conducted geologic map research and recovered what was identified as a mammoth tusk. The tusk was stabilized, prepared for curation, and transported to a storage facility. Monica provided senior oversight of the paleontological resources recovery team and conducted paleontological resources sensitivity training and guidance to landfill staff in the event additional material are encountered.

Desert Sunlight Solar Farm, Riverside County, CA. *Third-Party Compliance Monitoring Manager.* Monica provided oversight to compliance monitors who conducted daily monitoring of site activities, assisted contractors in avoiding non-compliance issues, and prepared weekly reports, and she coordinated with First Solar and the BLM on compliance issues. ESA also assists with evaluation and approvals of project Variance Requests.

Candace R. Ehringer, RPA

Senior Cultural Resources Specialist

EDUCATION

M.A., Anthropology, California State University, Northridge

B.A., Anthropology, East Carolina University

18 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

Register of Professional Archaeologists

Society for California Archaeology

Society for Historical Archaeology

QUALIFICATIONS

Exceeds Secretary of the Interior's Standards

CA State BLM Permitted

CONTINUING EDUCATION

AEP Advanced CEQA Workshop, 2011

ACHP Section 106 Essentials training course, 2010

Riverside County certification course, 2009 and 2011

PROFESSIONAL PAPERS & PRESENTATIONS

Ehringer, C. 2014 Dead Men Do Wear Plaid: Garments and Notions for City Cemetery, Los Angeles, California. Oral paper presentation at the Society for Historical Archaeology 47th Annual Meeting, Quebec City, Quebec, Canada.

Candace is a cultural resources project manager with 18 years of experience working across California. Candace manages multi-disciplinary cultural resources projects which include archaeological, historic architectural, and paleontological resources components. She is adept at building teams of specialists from these resource areas that are uniquely qualified for the particular project at hand and has brought hundreds of projects to successful completion for both public agency and private development clients. Candace provides technical and compliance oversight for projects involving archaeological survey, evaluation, and treatment; built environment studies including the documentation and evaluation of buildings, structures, and districts; and paleontological resources survey and sensitivity assessments. She is proficient in the areas of CEQA, NEPA, and Section 106 and routinely provides planning and strategic guidance to clients within the larger scope of state and federal regulations.

Relevant Experience

San Gabriel River Confluence with Cattle Canyon Imporvemnts Project, Archaeological Services, Angeles National Forest, CA. *Principal Investigator.* ESA has been retained by BlueGreen Consulting to prepare a joint NEPA/CEQA document in support of a project that will provide recreational imporvements and ecological restoration algon a 1.5-mile reach of the East Fork of the San Gabriel River in the Angeles National Forest. Archival research indicates that the project is within an area subject to historic mining activities. Candace is currently managing the preparation of a cultural resources survey report, She previously conducted archival research, and composed a preliminary constraints memo.

California Department of Water Resources (DWR), Cantua Creek Stream Group Improvements Project, Fresno County, CA. *Project Manager*. The California Department of Water Resources (DWR) proposes to implement the Cantua Creek Stream Group (CCSG) Improvements Project (Project). The CCSG is composed of five major creeks: Arroyo Hondo, Cantua, Salt, Martinez, and Domengine. The CCSG drains a portion of the Coast Range, located west of the Project area. Presently, floodwaters from the CCSG terminate at four locations (Basins 1-4) along an approximately 13-mile stretch of the San Luis Canal; Martinez Creek flows into Salt Creek about 3 miles upstream of the San Luis Canal. Candace managed the preparation of a Cultural Resource Inventory and Evaluation Report, Finding of Effect, and Paleontological Resources Report in compliance with Section 106 of the National Historic Preservation Act and CEQA. The Bureau of Reclamation was the lead federal agency.

DWR, California Aqueduct Bridges Seismic Retrofit, Kern and San Bernardino Counties, CA. *Project Manager*. Candace managed the completion of an Archaeological Survey Report, a Historical Resources Evaluation Report, a Historic

Properties Survey Report, and Finding of Effect document in coordination with the California Department of Transportation (Caltrans) and DWR. DWR proposes to remedy structural seismic deficiencies for six existing bridges spanning the California Aqueduct. The California Aqueduct was determined eligible for listing in the National Register under Criteria A and C for its association with irrigation and agricultural development of California and water conveyance engineering and design. The six bridges are considered contributors to the aqueduct system.

DWR, Serrano Beach Project, Los Angeles County, CA. *Project Manager*. Candace managed a Phase I cultural resources study, including archival research, survey, and report. DWR proposes to repair culverts along the Serrano Beach access road near the Pyramid Lake Vista Del Lago Visitors Center, replacement of a fence surrounding an existing water tank, and installation of a new water pipeline near the Warne Powerplant. The project is located within the Angeles National Forest, requiring compliance with Section 106 of the National Historic Preservation Act. The study concluded that the area is sensitive for archaeological resources and monitoring was recommended.

DWR, AVEK Turnout Project, Los Angeles County, CA. *Project Manager*. Candace managed the preparation of and co-authored a technical memorandum documenting a historic resource impact assessment for the West Branch of the California Aqueduct in compliance with California Public Resources Code Sections 5024 and 5024.5. The project includes construction of a new turnout facility on the West Branch of Pool 42. The West Branch is a potential contributing element of the California Aqueduct, a National Register-eligible resource. The assessment concluded that the project not result in a substantial adverse change to the significance of a historical resource. The results of the study were incorporated into an MND for the project.

LADWP, Emergency Repairs to Victorville-Century Transmission Line #2 Tower 211.1 and Access Road, San Bernardino County, CA. *Lead Cultural Resources Monitor*. Candace served as the lead cultural resource monitor during emergency repairs and grading of an access road in the San Bernardino National Forest. She documented three historic resources, including one previously recorded resource, the transmission line, and two newly recorded resources, a communications shack and the transmission line access road with related drainage features.

Santa Clarita Valley Sanitation District, Facilities Plan Update EIR, Los Angeles County, CA. *Cultural Resources Project Manager.* Candace managed the Phase I cultural resources study for the project. The study identified 26 cultural resources within or adjacent to the project, including the historical San Fernando Road. Candace authored a historical context and evaluated the road for its eligibility to the National Register and California Register. The results of the study were incorporated in the EIR. The project includes installation of a approx. 35-mile recycled water pipeline from the Santa Clarita Valley to East Los Angeles.

EDUCATION

Ph.D., Vertebrate Paleontology; University of Southern California

M.S., Environmental Microbiology; University of Tennessee

B.A. with honors, Ecology and Systematics; William Jewell College & Homerton College, Cambridge University

10 YEARS EXPERIENCE

Alyssa Bell, PhD

Paleontologist

Dr. Alyssa Bell has supervised and peformed field work, authored project reports, and provided scientific and compliance direction and quality control for paleontological projects throughout Southern California. Dr. Bell has accumulated a wealth of field experience, working with crews from a variety of institutions on field sites in California, Arizona, New Mexico, South Dakota, and Utah, and has led her own expeditions in Montana. She has performed all manner of investigations from surveys and assessments to monitoring and fossil idenfitication over the last 15 years as a part of her academic pursuits and professional consultation, with the last three years being exclusively professional endeavors.

In addition to consulting, Dr. Bell serves as a postdoctoral fellow at the Dinosaur Institute of the Natural History Museum of Los Angeles County (LACM). There she is involved in pursuing her own research into fossil birds as well as working with the Institute's field projects and museum-wide education and outreach initiatives. She has also published peer-reviewed articles and book chapters and given numerous presentations at scientific conferences on both her paleontological and microbiological research.

Relevant Experience

ICHA Area 10 (PA 10-2 & 10-4) Archaeological and Paleontological Monitoring, Irvine, CA. *Principal Investigator & Project Paleontologist.* Dr. Bell managed the curatorial process for fossils collected during monitoring of pre-construction activities at the University of California, Irvine, and authored the final report.

Suncrest Reactive Power Support Project, San Diego County, CA. *Principal Investigator.* Dr. Bell authored the paleontological assessment for the Proponent's Environmental Assessment (PEA) in support for a dynamic reactive power support facility and associated 230-kilovolt (kV) transmission line near Alpine, California. The application for Certificate of Public Convenience and Necessary was filed in summer 2015 and the PEA was deemed complete in December 2015.

Washington National Archaeological and Paleontological Monitoring (Access Culver City), Culver City, CA. *Principal Investigator & Project Paleontologist.* Dr. Bell managed the curatorial process for fossils collected during monitoring of pre-construction activities at the Washington national site in Culver City, CA and authored the final report.

OTO Hotels Santa Monica Archaeological and Paleontological Service, Santa Monica, CA. *Principal Investigator.* Dr. Bell supervised paleontological monitoring

and mitigation services during construction excavations and grading. Services included implementation of a paleontological mitigation monitoring program and reporting.

Sacred Heart Specific Plan Environmental Impact Report (EIR), La Canada Flintridge, CA. *Principal Investigator.* Dr. Bell prepared paleontological studies and developed monitoring & mitigation recommendations for the Sacred Heart development project.

Sixth & Bixel Paleontological Monitoring Services Project, Los Angeles, CA. *Principal Investigator & Project Paleontologist.* Dr. Bell supervised paleontological monitoring of preconstruction activities in support of a development project encompassing two parcels in downtown Los Angeles. During these activities, monitors identified and recovered numerous significant vertebrate fossils. Dr. Bell supervised the excavation of fossilized whale remains discovered on-site, and oversaw the collection and curation of all fossil specimens.

Natural and Cultural Support for the Gordon Mull Subdivision EIR, Glendora, CA. *Principal Investigator.* Dr. Bell collected the necessary data to prepare the technical sections and mitigation recommendations to support an EIR prepared by another firm to address the Gordon Mull Subdivision in the city of Glendora. The project is proposes to redevelop a 71-acre, 19-lot located in the San Gabriel Foothills.

Lake Elsinore Lakeshore Town Center Permitting, Riverside County, CA. *Principal Investigator.* Dr. Bell provided paleontological studies and developed monitoring and mitigation recommendations for the Lake Elsinore Town Center project in Riverside County.

San Pedro Plaza Park - Phase III Archaeological Monitor, Los Angeles, CA. *Principal Investigator.* Dr. Bell identified fossils during the mitigation measurement-required archaeological monitoring of earthmoving activities in San Pedro Park Plaza. She is also responsible for curation of the fossil material and authorship of the paleontological section of the final report.

City of Hope Specific Plan and EIR, Duarte, CA. *Principal Investigator.* Dr. Bell provided paleontological resource studies for the City of Hope Specific Plan Project.

Blythe Solar Power Project, Units 1 & 2, Riverside County, CA. *Project Paleontologist.* Dr. Bell supervised paleontological monitoring of preconstruction activities for a solar photo-voltaic cell power-generating facility outside the city of Blythe. As a part of her role, she provided oversight and management of paleontological monitors and development of the final monitoring report.

Industrial Project Environmental Impact Report, Colton, CA. *Principal Investigator.* Dr. Bell provided a paleontological resources study for a six-acre industrial project site at the southwest corner of Agua Mansa Road and Rancho Avenue in the city of Colton.

Mojave Solar Project Paleontological Reporting, San Bernardino County, CA. *Principal Investigator.* Dr. Bell managed curation of fossil materials and authored the final report of paleontological monitoring services provided for construction

activities in support of a solar field development project in San Bernardino County.

El Camino Real Bridge Replacement Environmental Services, Atascadero, CA. *Principal Investigator.* Dr. Bell provided environmental services, including preparation of all California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) documentation, technical studies, and permitting, for the replacement of the El Camino Real Bridge over Santa Margarita Creek in Atascadero.

Recycled Water Transmission Water Main Paleo Monitoring, Fresno, CA. *Principal Investigator.* Dr. Bell developed a monitoring and mitigation plan for the city of Fresno recycled water main construction project.

Shafter Wasco Irrigation District Natural and Cultural Resource Evaluations and Air Quality, Kern County CA. *Principal Investigator.* Dr. Bell provided paleontological studies and developed recommendations for the monitoring and mitigation of paleontological resources for the project.

Valentine EIR, Kern County, CA. *Principal Investigator.* Dr. Bell provided paleontological resources support for a 2,000-acre solar PV project in the Mojave Desert. Deliverables included comprehensive technical reports, GIS impact analysis, strategic and permitting support, and a paleontological field survey in the preparation of an EIR and other permitting requirements.

Valentine Solar EIR 115MW Supplemental Reports, Kern County, CA. *Principal Investigator.* Dr. Bell provided paleontological studies in support of changes to the previously established Valentine Solar project.

Valentine Solar Biological and Paleontological Study Updates, Rosamond, Kern County, CA. *Principal Investigator & Project Paleontologist.* Dr. Bell provided paleontological studies, carried out a paleontological survey, and developed monitoring and mitigation guidelines for the Valentine Solar project.

Vanessa N. Ortiz, MA, RPA

Cultural Resources Specialist

EDUCATION

M.A., Anthropology emphasis Archaeology, California State University, Los Angeles

B.A. Anthropology, California State University, Los Angeles

7 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

Register of Professional Archaeologists, #30984230

Society for American Archaeology

California Cultural Resources Preservation Alliance

Society for California Archaeology

Lambda Alpha Honors Society

CPR/First Aid Certified

Cross Trained Archaeology / Paleontology

Vanessa is an archaeologist with over seven years of documentation, records searches, survey, excavation, and monitoring experience. Vanessa routinely manages project schedules and coordination with project proponents, contactor staff, and agency staff. She also prepares compliance reports in accordance with CEQA and Section 106 guidelines. Vanessa is a trained archaeologist and cross-trained paleontologist with the ability to provide an appropriate response for projects where cultural resources issues arise. Vanessa is bilingual (Spanish/English) and regularly works as part of a team ensuring daily operations satisfy regulations.

Relevant Experience

Ballona Wetland Restoration, Playa Del Rey, CA. *Archaeologist.* As part of the development of the restoration plan for the Ballona Wetlands, the ESA project team characterized existing conditions that included water and sediment sampling and analysis. Vanessa assisted in survey, data recovery and artifact analysis.

Los Angeles Department of Water and Power (LADWP), Path 46 Clearance Surveys, San Bernardino, CA. *Archaeologist*. ESA has been tasked by LADWP to conduct required surveys for the Path 46 Transmission Line Clearances Project. The project's objective is to restore required code clearances to the transmission conductors, which will be accomplished by grading the ground surface underneath the transmission lines to achieve required height consistency. The work is being conducted in compliance with BLM guidelines and federal laws and statutes. Biological, archaeological, and paleontological resource surveys are currently being conducted for the 77 proposed grading areas, staging areas, and roads. Pending reports will document results of the surveys and provide recommendations for minimally invasive access areas, staging areas, and soil distribution. Vanessa provided field surveys and documentation of archaeological sites for submission to the California State Parks.

Los Angeles Department of Water and Power (LADWP), Scattergood Olympic Transmission Line (SOTL) Cultural Resources Monitoring, Los Angeles, CA. *Archaeologist*. LADWP is constructing and will operate approximately 11.4 miles of new 230 kilovolt (kv) underground transmission line. LADWP installed 55 vaults and underground conduit for the SOTL Project. ESA provided cultural resources services, including archaeological, Native American, and paleontological monitoring, to fulfill the requirements of the Project EIR mitigation measures for cultural resources. Reports documenting the monitoring findings were submitted at the end of the project. Vanessa provided oversight and scheduling to monitors and assisted in preparing the final report.

California High Speed Rail, Fresno, CA. *Archaeological Monitor.* ESA was retained as a sub-consultant to the Tutor Perini Zachary Parsons Joint Venture. The project consisted of pre-construction surveys for biological and cultural resources, compliance monitoring during construction, and compliance tracking and reporting. Approximately 29 miles in length, the project also included both biological and cultural resources such as the historic Chinatown in downtown Fresno, vernal pool and seasonal wetland habitat and crossings of the San Joaquin and Fresno Rivers. Vanessa provided archaeological monitoring for the Project during construction.

Los Angeles Department of Water and Power, La Kretz Innovation Campus Project, Los Angeles, CA. *Archaeological Monitor and Lab Technician.* ESA provided archaeological monitoring in connection with the La Kretz Innovation Campus Project located in downtown Los Angeles. ESA conducted construction worker cultural resources sensitivity training; archaeological monitoring; and prepared a monitoring report. The Project involved the rehabilitation of the 61,000-square-foot building located at 518-524 Colyton Street, the demolition of the building located at 537-551 Hewitt Street, and the construction of an open space public plaza, and surface parking lot, and involved compliance with Section 106 of the National Historic Preservation Act and consultation with the California State Historic Preservation Officer. Vanessa led monitoring for the duration of the Project, conducted data recovery, served as a lab technician during the curation of the artifacts recovered from the Project, and co-authored the final cultural report.

Los Angeles Department of Water and Power (LADWP), Silver Lake Reservoir Complex (SLRC) Storage Replacement and River Supply Conduit 1A, Los Angeles County, CA. *Archaeological and Paleontological Monitor*. ESA is providing archaeological and paleontological monitoring for SLRC Storage Replacement and River Supply Conduit 1A Project. As part of this task, ESA conducted construction worker cultural resources sensitivity training and archaeological and paleontological monitoring. A final monitoring report will be prepared at the end of construction. Vanessa was the field monitor on this project.

Sunline Administration Building Project, Thousand Palms, CA. *Archaeological Monitor.* ESA was retained by the Sunline Transit Authority to conduct cultural resources monitoring for the Sunline Administration Building Project (Project). The Project consisted of the development a 13.54-acre property located adjacent to Sunline's existing facilities and included modifications to Sunline's existing facilities, as well as the construction of new facilities including an administration building, a break room, a board room, and a transfer station for passengers. Vanessa conducted archaeological monitoring for the Project during construction.

La Plaza Project, Los Angeles, CA. *Archaeological Technician.* The Project consisted of the re-development of La Plaza in Downtown Los Angeles. As part of the project, Vanessa participated in the reburial of human remains as well as an archaeological technician for the data recovery phase.

Michael Vader

Associate Archaeologist

EDUCATION

B.A., Physical Anthropology, University of California, Santa Barbara

9 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

Society for California Archaeology (SCA)

Society for American Archaeology (SAA)

Pacific Coast Archaeological Society (PCAS)

SPECIALIZED EXPERIENCE

Analysis of faunal remains including fish and shellfish species

Archaeological Monitoring

Paleontological Monitoring

Environmental Compliance Monitoring

Human osteology and bioarchaeology

Michael is an archaeologist and environmental compliance monitor with experience working on survey, data recovery, and monitoring projects. Michael has experience with project management, has led crews on multiple surveys, and is familiar with environmental compliance documents. He has worked on a variety of energy and water infrastructure projects throughout California, including projects in Riverside, San Diego, Imperial, San Bernardino, Los Angeles, Orange, Santa Barbara, San Luis Obispo, Kern, Fresno, Madera, and Inyo Counties. Michael regularly works as part of a team, coordinating with construction personnel and Native American representatives.

Relevant Experience

City of Los Angeles Department of Water and Power, City Trunk Line Unit 3 Project, Los Angeles, CA. *Archaeologist.* ESA has conducted a Phase 1 cultural resources assessment for the Los Angeles Department of Water and Power (LADWP), City Trunk Line Unit 3 Project (Project). LADWP plans replacing a portion of the City Trunk Line on Coldwater Canyon Avenue between Vanowen Street and Magnolia Boulevard, within the City of Los Angeles. The proposed Project would involve the installation of approximately 10,250 linear feet of 60-inch diameter water pipeline constructed of welded steel. Michael led the Phase 1 cultural resources survey of the Project area and prepared the technical report and the cultural resources ISMND section.

City of Los Angeles Department of Water and Power, Barren Ridge Switching Station, Kern County, CA. *Archaeologist.* ESA has prepared a Phase I cultural resources study for the Los Angeles Department of Water and Power Barren Ridge Switching Station Project, located in Kern County, CA. The proposed project includes the expansion of the existing Barren Ridge Switching Station. The expansion would consist of the development of 3.7-acres of undeveloped land on the east side of the switching station. Michael led the cultural resources survey and prepared the technical report for the study.

City of Los Angeles Department of Water and Power, Haskell Canyon Switching Station, Los Angeles County, CA. *Archaeologist.* ESA has prepared a Phase I cultural resources study for the Los Angeles Department of Water and Power (LADWP) Haskell Canyon Switching Station Project, located in Los Angeles County, CA. The proposed project includes the construction of the Haskell Canyon Switching Station on LADWP owned and private property south of the Angeles National Forest. Construction of the switching station would consist of clearing and upgrading of access roads, site grading and development, and installation of electrical conduits, structures, and equipment. Michael led the cultural resources survey and assisted in the preparation of the technical report.

City of Los Angeles Department of Water and Power, Well V817 Rose Valley Pipeline Installation Project, Inyo County, CA. *Archaeologist.* ESA archaeologists have conducted an Extended Phase I investigation of site CA-INY-6980/H, and prepared an Extended Phase I testing report, as well as a MND for the Los Angeles Department of Water and Power Well V817 Rose Valley Pipeline Installation Project, located in Inyo County. The project involves the installation of an 8-inch diameter water pipeline with a length of 1,542 feet that would transport pumped water from Well V817 southwest to a staging area near the First Los Angeles Aqueduct. Michael assisted with testing of site CA-INY-6980/H, which consisted of a high-density scatter of prehistoric artifacts, and contributed to the Extended Phase I testing report.

California Department of Water Resources, Perris Dam Project-Regional Conservation Authority Mitigation Area, Riverside County, CA. *Archaeologist.* ESA archaeologists have prepared a Phase I cultural resources survey report and for the California Department of Water Resources (DWR) for a habitat restoration program within Riverside County. DWR plans to implement a restoration program within the Regional Conservation Authority mitigation area with the purpose to create/restore riparian habitat that is biologically equivalent or superior to that which is being impacted as a result of the Perris Dam Remediation Program being carried out at Lake Perris. Michael led the archaeological survey of the project site, and contributed to the survey report.

California Department of Water Resources, Pearblossom Solar Project, Los Angeles County, CA. *Archaeologist.* ESA archaeologists have prepared a Phase I cultural resource study and an IS/MND in support of the California Department of Water Resources' Pearblossom Solar Project located in Antelope Valley, Los Angeles County, CA. The project includes the installation of photovoltaic solar panels on approximately 70-acres of land within the Pearblossom Pumping Plant. The solar panels would generate approximately 10 megawatts (MW) of energy which would be transmitted to Southern California Edison via a nearby 230 kilovolt (kV) radial distribution line. Michael led the Phase I cultural resources survey and contributed to the technical report and IS/MND.

California Department of Water Resources, Serrano Beach Access Road Culvert Repair Project, Los Angeles County, CA. *Archaeologist.* ESA archaeologists have prepared a Phase I cultural resources study for the California Department of Water Resources' Serrano Beach Access Road Culvert Repair project located adjacent to Pyramid Lake in the Angeles National Forest. The project involves the installation of a two-mile long water pipeline, upgrades to an existing water tank and fence line, and repairs to existing culverts along the Serrano Beach access road within the Pyramid Lake recreation area. Michael contributed to the Phase I cultural resources study technical report.

APPENDIX B (CONFIDETNIAL – BOUND SEPERATELY)

SCCIC Records Search Results

APPENDIX C (CONFIDENTIAL – BOUND SEPERATELY)

LACM Database Search Results

APPENDIX D

Native American Outreach

626 Wilshire Boulevard
Suite 1100
Los Angeles, CA 90017
213.599.4300 phone
213.599.4301 fax

www.esassoc.com

January 25, 2016

Katy Sanchez
Native American Heritage Commission
1550 Harbor Boulevard, Suite 100
West Sacramento, CA 95691
FAX- 916-373-5471

Subject: Sacred Lands File Search for the LAUSD Thomas Jefferson High School Comprehensive High School Modernization Project. Project #211085.23

Dear Ms. Sanchez:

ESA is preparing a Mitigated Negative Declaration (MND) for the proposed Los Angeles Unified School District (District) Thomas Jefferson High School Comprehensive High School Modernization Project (Project). The Project is located in the city of Los Angeles within the Los Angeles County. The Project would include demolition of the gymnasiums (practice and competitive facilities), mechanical arts building, industrial arts building, metal shop, utility building (also known as the power house building), lunch shelter/service building, and approximately 30 classrooms in relocatable or portable buildings. The Project would include construction of gymnasiums (practice and competitive facilities), approximately 46 classrooms (general and specialty) and support spaces, a lunch pavilion, a baseball/softball field, and permanent lighting at the football field. These buildings would be designed, constructed, and furnished/equipped to meet current building code requirements and District design standards. The Project would also include modernization and seismic retrofits to the administrative building (including the library), the main classroom building, and the cafeteria building. Site-wide infrastructure improvements would include plumbing and electrical and storm drain improvements. Site-wide upgrades would include identified and prioritized barriers to program accessibility. The landscape, hardscape, and exterior paint would also be upgraded as part of the Project.

The attached map depicts the Project area located in:

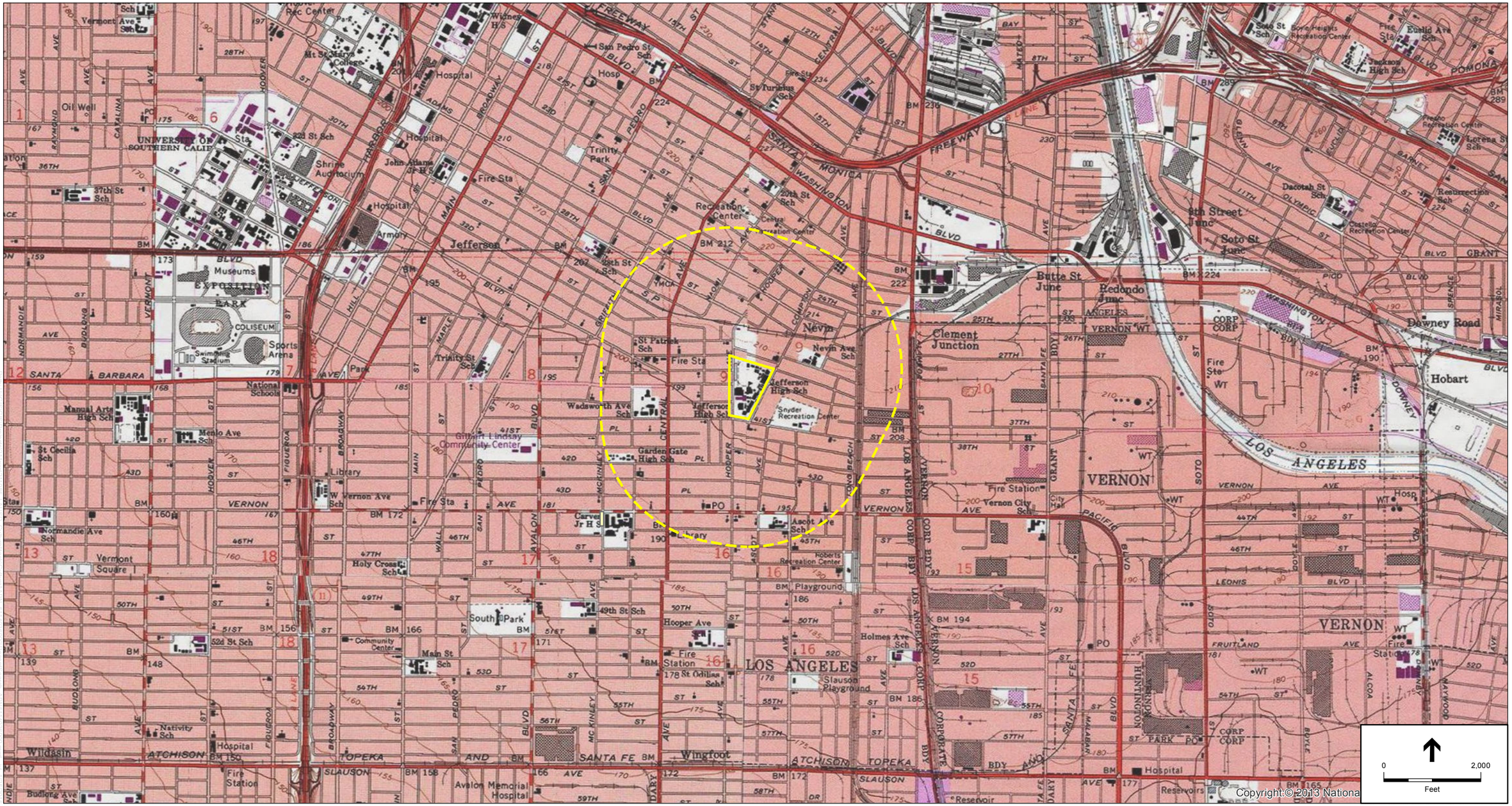
- section 8 of the Hollywood 7.5-minute USGS quadrangle, Township 1S/Range 13W
- sections 9 and 10 of the Los Angeles 7.5-minute USGS quadrangle, Township 1S/Range 13W
- sections 16 and 17 of the Inglewood 7.5-minute USGS quadrangle, Township 1S/Range 13W
- sections 15 and 16 of the South Gate 7.5-minute USGS quadrangle, Township 1S/Range 13W

In an effort to provide an adequate appraisal of all potential impacts to cultural resources that may result from the proposed Project, ESA is requesting that a records search be conducted for sacred lands or traditional cultural properties that may exist within the Project area.

Thank you for your time and cooperation regarding this matter. To expedite the delivery of search results, please fax them to 213.599.4301. Please contact me at 323.246.6289 or vortiz@esassoc.com if you have any questions.

Sincerely,

Vanessa Ortiz, M.A., RPA
Cultural Resources



SOURCE: Hollywood 1978, 1982; Los Angeles 1978, 1982; Inglewood 1978, 1982; South Gate 1978, 1982

LAUSD Phase 1 Technical Studies . 211085.23

Figure 1

Record Search Map

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
(916) 373-3710
(916) 373-5471 FAX

January 28, 2016

Vanessa Ortiz, M.A., RPA
ESA

Sent by Email: vortiz@esassoc.com
Number of Pages: 3

RE: LAUSD Thomas Jefferson High School Comprehensive High School Modernization Project #211085.23, City of Los Angeles, Los Angeles County, California

Dear Ms. Ortiz,

Attached is a consultation list of tribes with traditional lands or cultural places located within the boundaries of the above referenced counties. Please note that the intent above reference codes is to mitigate impacts to tribal cultural resources, as defined, for California Environmental Quality Act (CEQA) projects.

As of July 1, 2015, Public Resources Code Sections 21080.1, 21080.3.1 and 21080.3.2 require public agencies to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose mitigating impacts to tribal cultural resources:

> Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section. (Public Resources Code Section 21080.1(d))

The law does not preclude agencies from initiating consultation with the tribes that are culturally and traditionally affiliated with their jurisdictions. The NAHC believes that in fact that this is the best practice to ensure that tribes are consulted commensurate with the intent of the law.

In accordance with Public Resources Code Section 21080.1(d), formal notification must include a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation. The NAHC believes that agencies should also include with their notification letters information regarding any cultural resources assessment that has been completed on the APE, such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

   - A listing of any and all known cultural resources have already been recorded on or adjacent to the APE;
   - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
   - If the probability is low, moderate, or high that cultural resources are located in the APE.
   - Whether the records search indicates a low, moderate or high probability that unrecorded cultural resources are located in the potential APE; and

- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

   - Any report that may contain site forms, site significance, and suggested mitigation measurers.

     All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for pubic disclosure in accordance with Government Code Section 6254.10.

3. The results of any Sacred Lands File (SFL) check conducted through Native American Heritage Commission. A search of the SFL was completed for the USGS quadrangle information provided with negative results.

4. Any ethnographic studies conducted for any area including all or part of the potential APE; and

5. Any geotechnical reports regarding all or part of the potential APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS is not exhaustive, and a negative response to these searches does not preclude the existence of a cultural place. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the case that they do, having the information beforehand well help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance we are able to assure that our consultation list contains current information.

If you have any questions, please contact me at my email address: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton
Associate Governmental Program Analyst

Native American Heritage Commission
Tribal Consultation List
Los Angeles County
January 28, 2016

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 Gabrielino Tongva
San Gabriel , CA 91778
GTTribalcouncil@aol.com
(626) 483-3564 Cell

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 Gabrielino Tongva
Los Angeles , CA 90012
sgoad@gabrielino-tongva.com
(951) 807-0479

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Tribal Chair/Cultural Resources
P.O. Box 490 Gabrielino Tongva
Bellflower , CA 90707
gtongva@verizon.net
(562) 761-6417 Voice/Fax

Gabrielino-Tongva Tribe
Linda Candelaria, Co-Chairperson
1999 Avenue of the Stars, Suite 1100
Los Angeles , CA 90067
Gabrielino
(626) 676-1184 Cell

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393
Covina , CA 91723
gabrielenoindians@yahoo.com Gabrielino
(626) 926-4131

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.
This list applicable only for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed LAUSD Thomas Jefferson High School Comprehensive High School Modernization Project #211085.23, City of Los Angeles, Los Angeles County, California.

626 Wilshire Boulevard
Suite 1100
Los Angeles, CA 90017
213.599.4300 phone
213.599.4301 fax

www.esassoc.com

February 4, 2016

Linda Candelaria
Co-Chairperson
Gabrielino/Tongva Tribe
1999 Avenue of the Stars, Suite 1100
Los Angeles, CA 90067

Subject: LAUSD Thomas Jefferson High School Comprehensive High School Modernization Project. Project #211085.23

Dear Ms. Candelaria:

ESA is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Los Angeles Unified School District (District) Thomas Jefferson High School Comprehensive High School Modernization Project (Project). The Project would include demolition of the gymnasiums (practice and competitive facilities), mechanical arts building, industrial arts building, metal shop, utility building (also known as the power house building), lunch shelter/service building, and approximately 30 classrooms in relocatable or portable buildings. The Project would include construction of gymnasiums (practice and competitive facilities), approximately 46 classrooms (general and specialty) and support spaces, a lunch pavilion, a baseball/softball field, and permanent lighting at the football field. These buildings would be designed, constructed, and furnished/equipped to meet current building code requirements and District design standards. The Project would also include modernization and seismic retrofits to the administrative building (including the library), the main classroom building, and the cafeteria building. Site-wide infrastructure improvements would include plumbing and electrical and storm drain improvements. Site-wide upgrades would include identified and prioritized barriers to program accessibility. The landscape, hardscape, and exterior paint would also be upgraded as part of the Project.

The Project is located in the City of Los Angeles in southcentral Los Angeles County, approximately 2 miles south of downtown Los Angeles and 15 miles east of the Pacific Ocean. Specifically, the 18.9-acre campus it is located at 1319 East 41st Street and is bound by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and residences and East 33rd Street to the north. The attached map depicts the Project area located in:

- Section 8 of the Hollywood 7.5-minute USGS quadrangle, Township 1S/Range 13W
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On January 28, 2016, the Native American Heritage Commission (NAHC) performed a Sacred Lands File (SLF) records search for the Project. The SLF search indicated that Native American cultural resources are not located within the immediate Project area. The NACH identified you as a person who may have knowledge of cultural resources within the Project area. Additionally, on January 26, 2016, the South Central Coastal Information Center (SCCIC) performed a records search for the Project. The SCCIC records search results indicated that one multicomponent archaeological site (CA-LAN-3889/H – a historic refuse scatter with one isolated prehistoric chert core) has been documented approximately ½-mile east of the Project area. Subsurface investigation of the site was conducted in 2007 and no additional prehistoric artifacts were noted. .

We would appreciate your comments identifying any sensitive sites in or near the Project area that you may be aware of, any concerns or issues pertinent to this Project, or the names of others who may be interested in this Project. Thank you for your cooperation on this matter. If you have any questions or comments, please contact me at 213.599.4300 ext. 3567 or vortiz@esassoc.com.

Sincerely,

Vanessa Ortiz

Vanessa Ortiz, M.A., RPA
Cultural Resources

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February 4, 2016

Robert Dorame
Tribal Chair
Gabrielino Tongva Indians of California Tribal Council
P.O. Box 490
Bellflower, CA 90707

Subject: LAUSD Thomas Jefferson High School Comprehensive High School Modernization Project. Project #211085.23

Dear Mr. Dorame:

ESA is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Los Angeles Unified School District (District) Thomas Jefferson High School Comprehensive High School Modernization Project (Project). The Project would include demolition of the gymnasiums (practice and competitive facilities), mechanical arts building, industrial arts building, metal shop, utility building (also known as the power house building), lunch shelter/service building, and approximately 30 classrooms in relocatable or portable buildings. The Project would include construction of gymnasiums (practice and competitive facilities), approximately 46 classrooms (general and specialty) and support spaces, a lunch pavilion, a baseball/softball field, and permanent lighting at the football field. These buildings would be designed, constructed, and furnished/equipped to meet current building code requirements and District design standards. The Project would also include modernization and seismic retrofits to the administrative building (including the library), the main classroom building, and the cafeteria building. Site-wide infrastructure improvements would include plumbing and electrical and storm drain improvements. Site-wide upgrades would include identified and prioritized barriers to program accessibility. The landscape, hardscape, and exterior paint would also be upgraded as part of the Project.

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Sincerely,

Vanessa Ortiz

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February 4, 2016

Sandonne Goad
Chairperson
106 ½ Judge John Aiso St., #231
Los Angeles, CA 90012

Subject: LAUSD Thomas Jefferson High School Comprehensive High School Modernization Project. Project #211085.23

Dear Ms. Goad:

ESA is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Los Angeles Unified School District (District) Thomas Jefferson High School Comprehensive High School Modernization Project (Project). The Project would include demolition of the gymnasiums (practice and competitive facilities), mechanical arts building, industrial arts building, metal shop, utility building (also known as the power house building), lunch shelter/service building, and approximately 30 classrooms in relocatable or portable buildings. The Project would include construction of gymnasiums (practice and competitive facilities), approximately 46 classrooms (general and specialty) and support spaces, a lunch pavilion, a baseball/softball field, and permanent lighting at the football field. These buildings would be designed, constructed, and furnished/equipped to meet current building code requirements and District design standards. The Project would also include modernization and seismic retrofits to the administrative building (including the library), the main classroom building, and the cafeteria building. Site-wide infrastructure improvements would include plumbing and electrical and storm drain improvements. Site-wide upgrades would include identified and prioritized barriers to program accessibility. The landscape, hardscape, and exterior paint would also be upgraded as part of the Project.

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February 4, 2016

Anthony Morales
Chairperson
Gabrieleno/Tongva San Gabriel Band of Mission Indians
P.O. Box 693
San Gabriel, CA 91778

Subject: LAUSD Thomas Jefferson High School Comprehensive High School Modernization Project. Project #211085.23

Dear Mr. Morales:

ESA is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Los Angeles Unified School District (District) Thomas Jefferson High School Comprehensive High School Modernization Project (Project). The Project would include demolition of the gymnasiums (practice and competitive facilities), mechanical arts building, industrial arts building, metal shop, utility building (also known as the power house building), lunch shelter/service building, and approximately 30 classrooms in relocatable or portable buildings. The Project would include construction of gymnasiums (practice and competitive facilities), approximately 46 classrooms (general and specialty) and support spaces, a lunch pavilion, a baseball/softball field, and permanent lighting at the football field. These buildings would be designed, constructed, and furnished/equipped to meet current building code requirements and District design standards. The Project would also include modernization and seismic retrofits to the administrative building (including the library), the main classroom building, and the cafeteria building. Site-wide infrastructure improvements would include plumbing and electrical and storm drain improvements. Site-wide upgrades would include identified and prioritized barriers to program accessibility. The landscape, hardscape, and exterior paint would also be upgraded as part of the Project.

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February 4, 2016

Andrew Salas
Chairperson
Gabrieleno Band of Mission Indians- Kizh Nation
P.O. Box 393
Covina, CA 91723

Subject: LAUSD Thomas Jefferson High School Comprehensive High School Modernization Project. Project #211085.23

Dear Mr. Salas:

ESA is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Los Angeles Unified School District (District) Thomas Jefferson High School Comprehensive High School Modernization Project (Project). The Project would include demolition of the gymnasiums (practice and competitive facilities), mechanical arts building, industrial arts building, metal shop, utility building (also known as the power house building), lunch shelter/service building, and approximately 30 classrooms in relocatable or portable buildings. The Project would include construction of gymnasiums (practice and competitive facilities), approximately 46 classrooms (general and specialty) and support spaces, a lunch pavilion, a baseball/softball field, and permanent lighting at the football field. These buildings would be designed, constructed, and furnished/equipped to meet current building code requirements and District design standards. The Project would also include modernization and seismic retrofits to the administrative building (including the library), the main classroom building, and the cafeteria building. Site-wide infrastructure improvements would include plumbing and electrical and storm drain improvements. Site-wide upgrades would include identified and prioritized barriers to program accessibility. The landscape, hardscape, and exterior paint would also be upgraded as part of the Project.

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Sincerely,

Vanessa Ortiz

Vanessa Ortiz, M.A., RPA
Cultural Resources

Appendix D

Preliminary Geotechnical Hazards Evaluation

ESA

PRELIMINARY GEOTECHNICAL HAZARDS EVALUATION, JEFFERSON HIGH SCHOOL, 1319 EAST 41ST STREET, LOS ANGELES, CALIFORNIA

Prepared for:

Los Angeles Unified School District
333 S Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Work Order: 2880-30-0-100
July 9, 2015

GORIAN & ASSOCIATES, INC.

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Appendix B: Laboratory Test Results
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Plate 1: Exploration Location Map

Applied Earth Sciences
Geotechnical Engineers
Engineering Geologists
DSA Accepted Testing Laboratory
Special Inspection and Materials Testing

3595 Old Conejo Road
Thousand Oaks
California 91320-2122
805 375-9262
805 375-9263 fax

July 9, 2015

Los Angeles Unified School District
333 S Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Work Order: 2880-30-0-100

Attention: Peyman Soroosh Moghadam

Subject: **Preliminary Geotechnical Hazards Evaluation, Jefferson High School, 1319 East 41st Street, Los Angeles, California**

1.0 INTRODUCTION

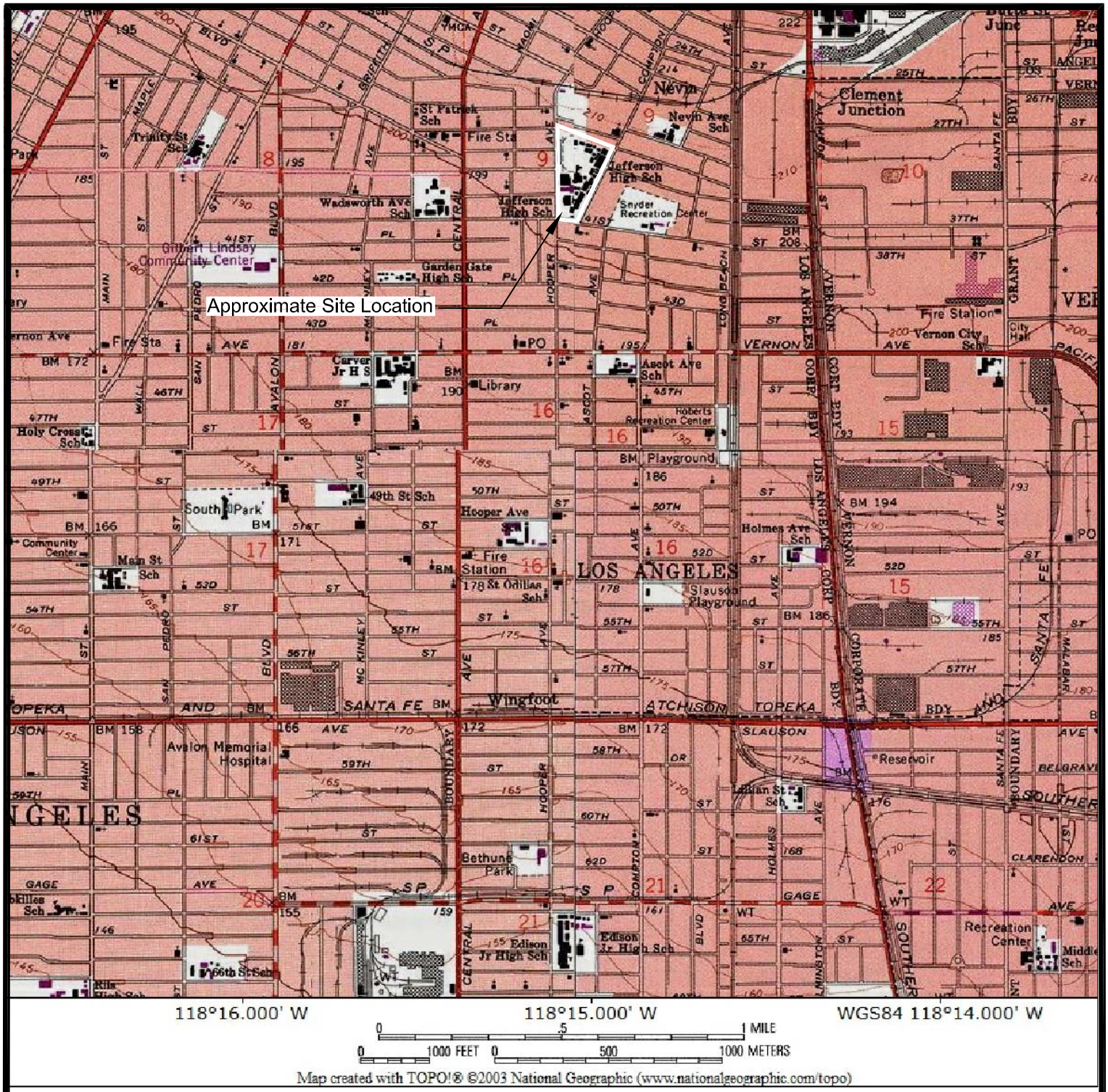
Presented herein are the results of our preliminary geotechnical hazards evaluation for the proposed comprehensive modernization project at Jefferson High School, (Site). The existing school is at 1319 East 41st Street in Los Angeles, California as shown on Figure 1.

Los Angeles Unified School District (LAUSD) personnel identified five subsurface exploration locations to be evaluated for this study. The approximate locations of our exploratory points are shown on the attached Geotechnical Exploration Map, Plate 1. The Site is not within a State of California designated Liquefaction Seismic Hazard Zone and groundwater is deeper than 60 feet. However to evaluate the potential for seismic settlement two of the exploration points were extended to a depth of 50 feet.

Our preliminary geotechnical recommendations for the comprehensive modernization project are based on our scope of services performed for this site evaluation that included archival research, field exploration, and laboratory testing, as well as geotechnical analyses as discussed herein. Providing recommendations presented herein are followed during design and construction, the site is considered to be suitable from a geotechnical engineering standpoint for the proposed school modernization project. Additional geotechnical site evaluation may be necessary when plans are available for the modernization project. The scope of services for this report did not include a geotechnical evaluation of the existing structures.

2.0 PROPOSED CONSTRUCTION

The proposed modernization project includes portable (temporary) buildings, new classroom buildings and modernization and seismic upgrade of existing buildings. The project is currently at the conceptual / early design phase and specific designs and upgrades are not known.



VICINITY MAP

Jefferson High School
1319 East 41st Street
Los Angeles, California

Source:
USGS Topographic Maps, Los Angeles and Hollywood Quadrangles, Los Angeles County

GORIAN & ASSOCIATES, INC.
APPLIED EARTH SCIENCES

Work Order: 2880-30-0-100		Date: July 2015
Scale:1"= 2000'	Drawn by:	Figure 1
	Approved by:	

3.0 SCOPE OF SERVICES

Gorian and Associates, Inc. conducted this preliminary geotechnical hazards evaluation for the proposed modernization project at the Jefferson High School site under the supervision of a State registered geotechnical engineer and certified engineering geologist. Our evaluation of the site included:

3.1 ARCHIVAL REVIEW

Pertinent geotechnical data available in our office was reviewed for this report.

3.2 SUBSURFACE EXPLORATION

Five geotechnical borings were drilled to depths of approximately 26 to 51½ feet below the existing ground surface (bgs) to evaluate the underlying soil conditions of the Site. A subcontractor supplied and operated truck-mounted hollow-stem auger drill rig was used to advance the borings. Field exploration activities described above were observed by a geologist from this office, who logged the underlying materials and helped obtain bulk and relatively undisturbed drive soil samples for laboratory analyses. Standard Penetration Testing (SPT) of the encountered in-situ earth materials was performed at various depths within the deep exploratory borings.

Prior to excavation, proposed points of exploration were marked in the field and a utility locator subcontractor was contacted to identify the surface trace of detectable underground utilities and abandoned piping. Additionally, Underground Service Alert (USA) was contacted per State mandated protocol prior to excavation on the site.

At the end of drilling, the borings were backfilled with the excavated material and patched with asphalt cold patch, where appropriate. Backfills may settle with time and LAUSD personnel should fill any depression that may occur, as necessary.

3.3 LABORATORY TESTING

A program of geotechnical laboratory testing was performed to evaluate properties of selected soil samples obtained during the subsurface exploration. The following tests were conducted for this preliminary site evaluation:

- In-situ moisture content and dry density
- Maximum density and optimum moisture content relationships
- Direct Shear Testing
- Consolidation Testing
- Expansion Index Testing
- Hydrometer Analyses
- Corrosion Testing
- R-Value Testing

3.4 GEOTECHNICAL ENGINEERING ANALYSIS AND REPORT PREPARATION

This report was prepared to present the results of our archival research, field subsurface exploration and laboratory testing programs, and engineering analyses including the findings and conclusions of our preliminary geotechnical hazards site evaluation. The report includes:

a) A description of subsurface conditions as encountered in the exploratory excavations, including Logs of Subsurface Data (Appendix A) and an Exploration Location Map (Plate 1).

b) A description of the laboratory testing program, including tests results (Appendix B).

c) Discussion and recommendations regarding:

i) Geologic hazards including seismic setting of the site, faulting, and seismic design criteria;

ii) Liquefaction and seismically induced settlement;

iii) Preliminary foundation design recommendations including estimated settlements;

iv) Preliminary retaining wall design parameters;

v) Preliminary pavement design recommendations;

vi) Soil chemistry analysis, by subcontract; and

vii) Practicality of stormwater infiltration.

4.0 SITE DESCRIPTION

Jefferson High School is relatively flat and bounded by East 41st Street to the south, Hooper Avenue to the west and Compton Avenue to the east. Along the majority of the northern edge of the campus, the site is separated from East 33rd Street by residences. The north westernmost corner of the campus extends to East 33rd Street. Surrounding the site is residential and commercial development. Buildings associated with the school are generally on the perimeter of the site with the football field, playground, and other open spaces in the interior. A parking lot is in the southwest corner and landscaping separates the building from the streets in the southeast corner of the site.

The areas of our evaluation were generally near the larger buildings, boy's and girl's gymnasiums, assembly building and administration/academic building. The fifth boring was located on the eastern side of the school amid a cluster of modular and relocatable buildings (refer to Plate 1).

5.0 REGIONAL GEOLOGIC SETTING

The Site is in the central coastal plain portion of the Los Angeles basin in the downtown area of Los Angeles. The Los Angeles structural basin is a northwest trending structural trough within the western terminus of the Peninsular Ranges geomorphic province of southern California and bounded by Transverse Ranges geomorphic province to the north and west. This geomorphic province is dominated by active compressional tectonics (crustal shortening) and is characterized by east west trending ranges and ridges with intervening canyons and valleys.

The Site is on Holocene alluvial deposits derived from sediments deposited from the ancestral Los Angeles River based on the Quaternary Geologic mapping presented in both of the *Seismic Hazard Zone Reports for the Hollywood and Los Angeles 7.5 Minute Quadrangles, Los Angeles County, California* (CGS, 1998a and b, respectively) and is included in the Holocene surficial sediments (alluvium unit) of Dibblee (1991, 1989) [See Regional Geologic Map, Figure 2].

6.0 SITE GEOLOGIC UNITS

The Site is underlain by native soils referred to as younger alluvial deposits (Holocene) locally mantled with artificial fill, grass, and asphaltic concrete. General descriptions of the artificial fill and alluvium as encountered in our exploratory borings are presented below with boring specific detail presented on the attached Logs of Subsurface Data (Appendix A).

6.1 YOUNGER ALLUVIUM DEPOSITS

Beneath the pavement, fill, or grass, younger alluvial deposits were encountered to the maximum depth of our subsurface exploration. The encountered alluvium generally consists of silty sand in a damp and loose to medium dense condition. The silty sand continues to a depth of 6 to 12 feet where it is underlain by a fine to coarse poorly graded sand. This sand is generally damp and medium dense. The poorly graded sand is generally underlain by interbedded layers of silty sand and sand becoming denser with depth. In boring B-4 the poorly graded sand was underlain by clayey silty, more poorly graded sand and interbeds of silty sand, clayey sand and poorly graded sand.

REGIONAL GEOLOGIC MAP

Jefferson High School
1319 East 41st Street
Los Angeles, California

Explanation

Qa- alluvium: unconsolidated floodplain deposits of silt, sand and gravel

Source

Dibblee, Thomas W. Jr., & Ehrenspeck, Helmut E.
Geologic Map of the Hollywood and Burbank (South ½) Quadrangles (1991), and Los Angeles Quadrangle (1989)
Los Angeles County, California.
Dibblee Geological Foundation Maps # 35 and # 22, respectively

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Work Order: 2880-30-0-100		Date: July 2015
Scale:1"= 2000'	Drawn by:	Figure 2
	Approved by:	

6.2 ARTIFICIAL FILL

Fill soils were encountered in three of the borings at depths of 1½ to 2½ feet bgs. Beneath the pavement in boring B-5 the fill consisted of silty sand soils in a damp and medium dense condition. In borings B-1 and B-2 the encountered fill consisted of sandy to silty clay in a very moist and medium stiff to stiff condition.

6.3 GROUNDWATER

Groundwater was not encountered to the maximum depth explored of 51½ feet bgs in borings B-3 and B-4. As previously mentioned, historical high groundwater is at a depth of greater than 60 to 70 feet below grade (CGS, 1998).

6.4 LANDSLIDES

No landslides are present within or near the site nor are any shown on regional geologic maps.

6.5 FLOOD HAZARD ZONE

The proposed site is not in a Federal Emergency Management Agency (FEMA) mapped flood hazard zone (FEMA FIRM Map, 2008). The site is also not in a dam or tsunami inundation zone (City of Los Angeles Dept of City Planning, 1996).

6.6 FAULTING AND SEISMICITY

The Site, like other sites in the Los Angeles Basin, is in a seismically active region prone to occasional damaging earthquakes. The destructive power of earthquakes can be grouped into fault-rupture, ground shaking (strong motion), and secondary effects of ground shaking (such as tsunami, liquefaction, settlement, landslides). The hazard of fault-rupture is generally thought to be associated with a relatively narrow zone along well-defined pre-existing active or potentially active faults. No doubt there is and will be exceptions to this, because it is not possible to predict the precise location of a new fault where none existed before (CDMG, 1975).

No active faults are known to cross the Site. The Site is not currently within an Alquist-Priolo Earthquake Fault Zone as defined by the State Geologist (Bryant and Hart, 2007).

The closest historically active surface fault is the Newport Inglewood fault zone located approximately 6¾ miles to the west-southwest of the Site. The active Hollywood fault, part of the Santa Monica-Hollywood-Raymond fault system lies approximately 7 miles north-northwest of the site (see Figure 3). As such, the potential for ground rupture on site due to faulting during the life expectancy of the project is considered remote.

Although no active or potentially active faults are known to exist within or adjacent the Site, the area will be subject to strong ground motion from occasional earthquakes in the region. Four significant earthquakes have occurred centered within 40 miles of the site within the last eight decades; the March 11, 1933 Long Beach earthquake (6.4 magnitude), the February 9, 1971 San Fernando earthquake (6.6 magnitude), the October 1, 1987 Whittier Narrows earthquake (5.9 magnitude) and the January 17, 1994 Northridge earthquake (6.7 magnitude).

It is estimated for the Northridge event, with its epicenter approximately 22 miles northwest, the subject area experienced maximum horizontal accelerations on the order of 0.25g for the alluvial Site conditions (Chang et al., 1994). Significant earthquakes will likely occur in this area within the life expectancy of the project and the site will experience strong ground shaking from these events.

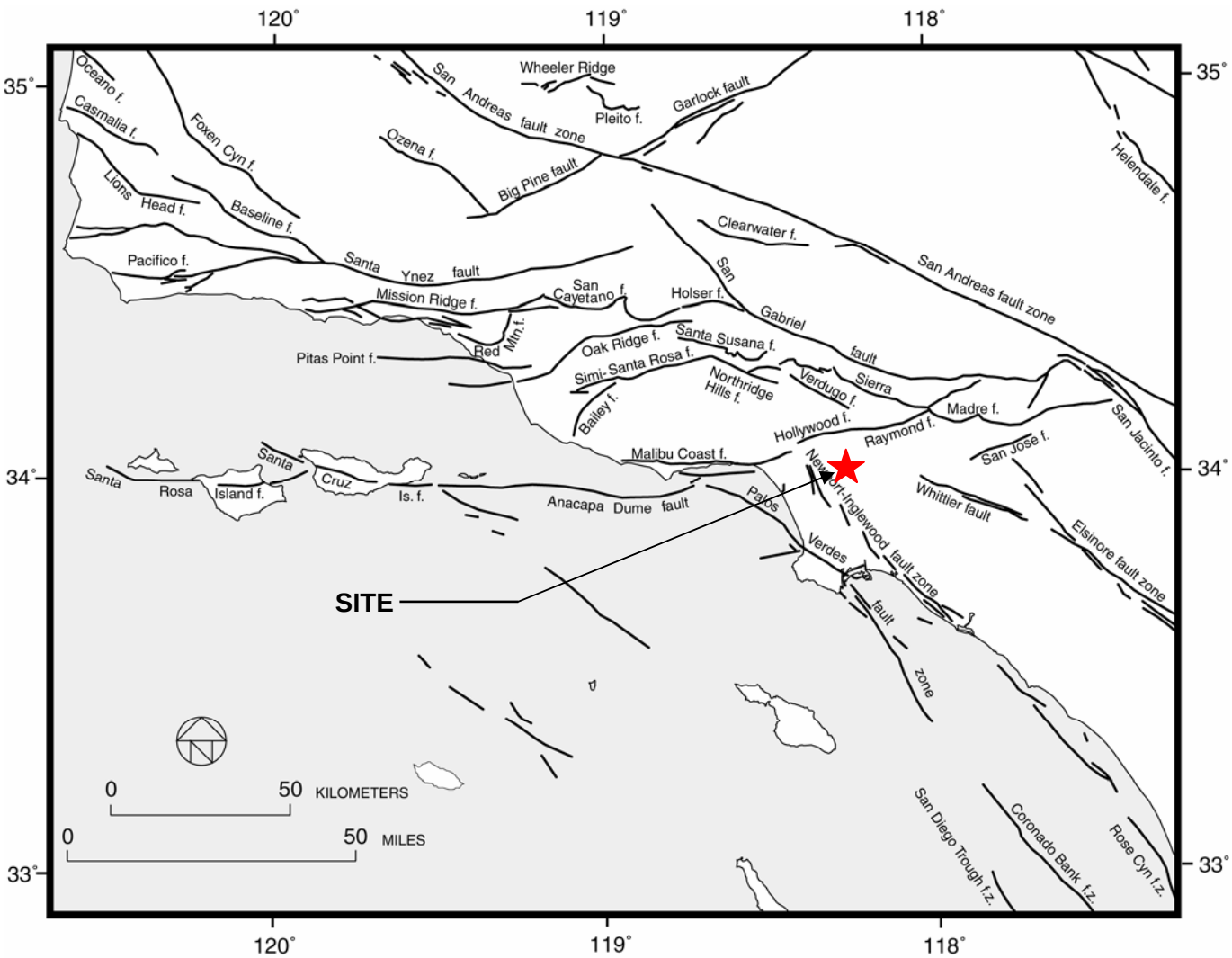

Figure 3 - Regional Fault Map. Approximate Location of Site indicated with star.

Probabilistic values from the U.S. Geological Survey (USGS) 2008 Interactive Deaggregations program from the website http://geohazards.usgs.gov/deaggint/2008/ produced a peak ground acceleration value of 0.45g based on a seismic event with a mean magnitude (Mw) of 6.64 at a mean distance of 14.2 km from the property for the same probability (475 year return period). Utilizing a 2% probability of exceedance in 50 years (2,475 year return period) the peak ground acceleration is estimated to be 0.76g based on a seismic event with a mean magnitude (Mw) of 6.7 at a mean distance of 8.6 km.

Additional seismic data is presented in later sections and in Appendix C.

6.7 LIQUEFACTION POTENTIAL

Liquefaction is a seismic phenomenon in which saturated cohesionless soils (sands) lose strength when severely shaken and develop excess pore pressures. As stated in the CDMG (1997) report, "In order to be susceptible to liquefaction, potentially liquefiable soils should be saturated or nearly saturated. In general, liquefaction hazards are most severe in the upper 50 feet of the surface…"

The site is not within an area zoned by the State as being susceptible to liquefaction (CGS, 1998); further, historic high groundwater is deeper than 50 feet. The potential for liquefaction is therefore not

considered an issue in the development of this site. Seismically induced settlement potential, in the form of dry sand settlement, was evaluated for the site. Based upon the density of the sands, seismically induced settlement on the order of ½ to 1 inch is anticipated. The analyses are presented in Appendix C.

6.8 HYDRO-COLLAPSE

Based on consolidation testing of the underlying soils, the potential for hydro-collapse of the underlying soils to a depth of 50 feet below the existing ground surface is low.

7.0 INFILTRATION EVALUATION

Although site specific infiltration testing was not performed, the general area of the proposed development was evaluated for the feasibility of stormwater infiltration based on our geotechnical subsurface exploration. Based on soil data obtained from the borings, beneath the fill soils the onsite native alluvial deposits consists of soils classified as sand, loamy sand or sandy loam. These soils are generally suitable for infiltration and the depth to groundwater is deep. As such, it is anticipated that infiltration is feasible onsite. Further evaluations will be required when the depth and location of the specific BMPs are known.

8.0 GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS

From a geotechnical standpoint, our preliminary geotechnical hazards evaluation for the proposed project has found that with proper design and construction practices, the Site is suitable for future development/modernization. We understand the project is in the very early stages and no design information is available at this time. Presented below is preliminary design information which may help determine the extent of the modernization project.

8.1 SOIL EXPANSIVENESS

Two soil expansion tests were performed on representative soil samples obtained from the site. Test results indicate the underlying native alluvial materials are very low (0-20 expansion index range) in expansion potential but some of the existing fill soils have a medium (51-90 expansion index range) expansion potential.

8.2 SOIL CORROSIVITY

Three samples of on-site soils were obtained and sent to Atlantic Consultants for soil chemistry analyses. The results, attached in Appendix B, indicate concrete in contact with the onsite soils is negligible for sulfate and chloride exposure. Further, the onsite soils are moderately corrosive to negligibly corrosive to ferrous metals and corrosive to copper piping.

8.3 GEOTECHNICAL SEISMIC DESIGN

The Site may experience strong ground shaking from seismic events generated on regionally active faults. Seismic ground motion parameters were evaluated using a simplified code based approach and ground motion procedures for seismic design. The simplified code based approach follows the procedures in the 2013 California Building Code (CBC) based on ASCE/SEI 7-10 Section 11.4. The 2013 CBC is based on the 2012 IBC which references the Minimum Design Loads for Buildings and Other Structures (ASCE/SEI 7-10) as indicated under Effective use of the IBC/CBC on page ix of the 2013 CBC.

Seismic ground motion values are initially determined based on site class B (rock) conditions. The values are adjusted to obtain the maximum considered earthquake (MCE) spectral acceleration values for the site based on its site class of D. The seismic design parameters for the Site's coordinates (latitude 34.010205° North and longitude 118.251142° West) were obtained from the USGS web based spectral acceleration response maps and calculator:
<http://earthquake.usgs.gov/designmaps/us/application.php>

Seismic Parameters based on ASCE/SEI 7-10

CHAPTER 16 TABLE/FIGURE NO.	SEISMIC PARAMETER	VALUE PER CA BUILDING CODE
Figure 1613.5 (3)	Short Period Mapped Acceleration (S_s)	2.10g
Figure 1613.5 (4)	Long Period Mapped Acceleration (S_1)	0.74g
Table 1613.5.2	Site Class Definition	D
Table 1613.5.3 (1)	Site Coefficient (F_a)	1.0
Table 1613.5.3 (2)	Site Coefficient (F_v)	1.5
Equation 16-37	$S_{MS} = F_aS_s$	2.10g
Equation 16-38	$S_{M1} = F_vS_1$	1.11g
Equation 16-39	$S_{DS} = 2/3S_{MS}$	1.40g
Equation 16-40	$S_{D1} = 2/3S_{M1}$	0.74g

The purpose of the building code earthquake provisions is primarily to safeguard against major structural failures and loss of life, not to limit damage nor maintain function. Therefore, values provided in the building code should be considered minimum design values and should be used with the understanding site acceleration could be higher than addressed by code based parameters. Cracking of walls and possible structural damage should be anticipated in a significant seismic event.

8.4 SITE PREPARATION

8.4.1 General

The following site preparation recommendations are primarily for removal of surficial materials such as the existing fill, asphalt, etc. Deep soil removals are not anticipated for light construction (one to two story construction, modernization of existing structures, etc.). However, the following recommendations should be reviewed by this firm when detailed construction plans are available for the school modernization plan.

8.4.2 Site Cleanup

Existing paving, debris, structures, etc. that are not a part of the final product should be removed from the proposed construction area. Debris generated from the demolition should be hauled away. The exposed ground surface should be observed and tested by a field representative of this office to evaluate the consistency and similarity of the soils which will provide support to the proposed construction.

8.4.3 Soil Removals

If soil removals are necessary, removals within areas to receive fill or to provide support for structures should expose competent materials. Removals adjacent existing structure footings should not extend below a 2(horizontal):1(vertical) line extending down from the top of the footing or may need to be performed in slots to protect the existing foundations. Removal bottoms should be observed by a representative of this office. In addition, removals adjacent footings should be observed by a representative of this office as the removals are made.

8.4.4 In-Place Soil Processing

Following removals, the underlying 8 to 12 inches should be scarified, moisture conditioned to above the optimum moisture content, and recompacted to at least 90% relative compaction.

8.4.5 Fill Placement

On-site soils may be reused as fill soils providing the soils are free of major vegetation, trash and debris. Fill soils should be placed in thin (6 to 8 inch maximum) lifts, brought to above optimum moisture content, and compacted to at least 90% relative compaction.

8.4.6 Relative Compaction
Relative Compaction is the ratio of in-place dry soil density to the maximum dry soil density determined in general conformance with ASTM test method D 1557-91.

8.4.7 Temporary Excavations
During construction, the contractor is responsible for the excavation and maintenance of safe and stable slope angles considering the subsurface conditions and the methods of operations. Temporary excavations should be made per the applicable requirements of the current Cal/OSHA excavation regulations. Geotechnical evaluation of temporary excavations can be provided when the excavation locations and depths are known.

8.5 SHALLOW FOUNDATION DESIGN
Geotechnical recommendations for conventional foundation systems are presented below based on soils with a medium expansion potential (51-90 expansion index range). In areas where the medium expansion potential fill soils are not present, foundations may be designed for soils with a low expansion potential. These recommendations may be provided for specific locations/projects as the design process proceeds.

8.5.1 Conventional Footings
Continuous and isolated footings embedded a minimum of 24 inches may be designed to impose an allowable bearing pressure of 1,800 pounds per square foot (psf). These bearing pressures apply for dead plus live loads and may be increased by one-third when considering wind or seismic loads.

Continuous and isolated footings should have minimum widths of 12 and 18 inches, respectively. The footings should be embedded a minimum of 24 inches. Embedment of exterior footings should be measured from the lowest adjacent exterior grade. Interior footings may be measured from the top of slab. After excavation, footing bottoms should be observed by a representative of this office to evaluate if additional soil removal or recompaction is warranted.

Steel reinforcement should be per the structural engineer's recommendations; however, minimum continuous footing reinforcement should consist of two number 4 bars in the top and bottom (total of 4 bars).

8.5.2 Resistance to Lateral Loads
Lateral forces on foundations may be resisted by passive earth pressure and base friction. Lateral passive earth pressure may be considered equal to a fluid weighing 220 pounds per cubic foot (pcf) where the footing is on level ground. Base friction may be computed at 0.35 times the normal load. These values have a factor of safety of 1.5 and may be combined without reduction.

8.5.3 Foundation Settlement
Static settlements of new footings due to static loading are anticipated to be minor with settlement on the order of ½ to ¾-inch. This should be confirmed when the actual foundation loads become available. Differential settlements between adjacent columns with similar static loading are anticipated to be on the order of one half the total settlements. Differential settlement between new and existing foundations should be evaluated when the actual foundation locations and loads become available.

The potential for seismic induced settlement due to liquefaction and lateral spread have been previously discussed in this report. Seismic induced movements are in addition to the potential for static settlement.

All structures settle during construction and minor structure settlement can occur after construction during the life of the project. Minor wall or slab cracking may also be associated with settlement or expan-

sive soil movement. Wall cracking can also occur associated with expansion and contraction of structural wood members due to thermal or moisture changes. Settlement or soil movement could occur if the soils become saturated due to excessive water infiltration generally caused by excessive irrigation, poor drainage, etc.

8.5.4 Footing Excavations

All footings should be cut square and level and cleaned of slough and soils silted into the excavations. A representative of this office should observe the footing excavations prior to placing reinforcing steel. The footings should be cast as soon as possible to avoid deep desiccation of the footing subsoils. Soil excavated from footing trenches should not be spread over areas of construction unless properly compacted.

8.5.5 Slabs-On-Grade

Concrete slabs-on-grade within building interiors should be a minimum of 4 inches thick and underlain by a minimum of 4 inches of aggregate as required by the applicable building code. Reinforcement should consist of a minimum of No. 4 bars at 18 inches on centers in both directions or per the structural engineer's design. The slab steel reinforcement should be extended into the foundations to within 3 inches of the footing bottom at 36 inches on center.

8.5.6 Concrete Placement and Cracking

Minor cracking of concrete slabs is common and is generally the result of concrete shrinkage continuing after construction. Concrete shrinks as it cures resulting in shrinkage tension within the concrete mass. Since concrete is weak in tension, development of tension results in cracks within the concrete. Concrete should be placed using procedures to minimize the cracking within the slab. Shrinkage cracks can become excessive if water is added to the concrete above the allowable limit and proper finishing and curing practices are not followed. Concrete mixing, placement, finishing, and curing should be performed per the American Concrete Institute Guide for Concrete Floor and Slab Construction (ACI 302.1R). Concrete slump during placement should not exceed the design slump specified by the structural engineer. Where shrinkage cracks would be unsightly, concrete slabs on grade including post-tensioned slabs should be provided with tooled crack control joints at 10-15 foot centers or as specified by the structural engineer.

8.5.7 Under-Slab Treatment

Where moisture sensitive floor coverings will be utilized, an appropriate moisture vapor retarder layer should be installed and maintained below the concrete slabs to reduce moisture vapor transmission through the slab. Ten-mil plastic sheeting is commonly used as a moisture vapor retarder layer. If a higher degree of moisture retarder is warranted, a retarder in general accordance with ASTM E 1745-97 *Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs* should be considered below the interior concrete slabs on-grade installed per ASTM E1643-98(2005) *Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs*.

Perforations through the moisture vapor retarder such as at pipes, conduits, columns, grade beams, and wall footing penetrations should be sealed per the manufacturer’s specifications or ASTM E1643-98(2005) *Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill under Concrete Slabs*. Proper construction practices should be followed during construction of the slab on-grade. Repair and seal tears or punctures in the moisture barrier that may result from the construction process prior to concrete placement.

Minimizing shrinkage cracks in the slab-on-grade can further minimize moisture vapor emissions. A properly cured slab utilizing low-slump concrete will reduce the risk of shrinkage cracks in the slab as described herein.

The concrete contractor should be made aware of the moisture vapor retarder and required to protect the layer. Perforations made in the layer by the concrete contractor should be properly sealed prior to concrete placement. In addition, if the concrete is placed directly on top of the layer the concrete contractor should make the necessary changes in the concrete placement and curing. Placing the concrete directly on top of the moisture vapor retarder layer allows the layer to be observed for damage directly prior to concrete placement.

The slabs should be tested for moisture content prior to the selection of the flooring and adhesives. Moisture in the slabs should not exceed the flooring manufacturer's specifications. The concrete surface should be sealed per the manufacturer's specifications if the moisture readings are excessive.

Where cuts are made into the slab for future construction, the moisture vapor retarder layer should be repaired per the manufacturer’s recommendation. Information regarding the need to repair the moisture vapor retarder layer and information on the selection of acceptable floor coverings should be conveyed to the school district personnel.

8.5.8 Moisture Penetration

Conventional footings and reinforced slab-on-grade subgrade soils should be premoistened to 3% over the optimum moisture content for a depth of 18 inches. However, the subgrade soils should not be flooded or soaked creating a saturated condition. A representative of this office should observe the subgrade soil premoistening prior to casting the concrete. Soils silted into the footing excavations during the premoistening operations should be removed prior to casting the concrete.

8.6 FLAG POLE FOOTING RECOMMENDATIONS

New, remodeled or retrofit structures may be supported by flagpole footings. These footings (piles) may be designed using an allowable lateral bearing pressure of 220 psf per foot of depth for level ground (maximum pressure should not exceed 2,500 psf) and friction between the soil and concrete of 0.35. These values have a factor of safety of 1.5 and may be combined with no reduction. If deflection of pole foundations is a concern, deflection calculations can be provided when loads are known.

8.6.1 Pile Construction

Due to layers of sand, some caving or raveling should be anticipated during pile construction. The drilling contractor should be prepared to use casing in areas where excessive caving occurs.

Groundwater was not encountered in our exploratory borings to a depth of 50 feet below ground surface. It is unlikely that water will be encountered during pile drilling. To minimize caving potential, piles should be filled with concrete in a timely manner and not left open overnight.

Care should be exercised when casting adjacent piles to avoid blowout from one excavation into the other. From an engineering standpoint, the preferred method would be to excavate, cast, and let the concrete achieve initial set prior to excavating the adjacent pile. However, where spacing between adjacent piles is greater than three times the largest pile diameter, satisfactory results have been achieved by casting adjacent piles simultaneously, keeping the differential elevation of the concrete less than five feet between piles.

Pile excavations should be observed by the project geotechnical consultant prior to setting reinforcing steel to verify the anticipated geotechnical conditions or to evaluate any unanticipated conditions encountered.

8.7 EXTERIOR SLABS AND WALKWAYS

Exterior concrete slabs-on-grade and walkways should be a minimum of 4 inches thick and underlain by a minimum of 4 inches of sand. Exterior slabs should be reinforced with a minimum of #3 bars on 24 inch centers in each direction. All slabs should have crack control joints (full depth joints) at intervals of 10 to 15 feet. Sidewalks may consist of unreinforced concrete provided the walks are provided with crack control joints at spacing equal to the walk width.

Concrete subgrade soils should be properly placed and compacted for the support of the concrete flat-work. Prior to placing concrete, the subgrade soils should be premoistened to a minimum of 3% over the optimum moisture content for a minimum depth of 12 inches. The subgrade soil premoistening should be observed by this office prior to placing the concrete.

8.8 PRELIMINARY PAVING SECTION

8.8.1 Structural Section

Structural sections consisting of asphaltic concrete (AC) or Portland cement concrete (PCC) placed over a compacted layer of aggregate base are provided in the table below based on an R value for the subgrade soils of 50. The asphalt and base should be properly placed and compacted to a minimum of 95% relative compaction. The project civil engineer should determine the appropriate traffic index for the pavement area. If buses will be using any of the drive areas a higher traffic index and thicker pavement section should be considered.

Asphalt pavements should be maintained by filling cracks that appear and with periodic application of fog sealers to replace surface oils that are lost due to weathering and wear.

PRELIMINARY PAVEMENT SECTIONS	
Traffic Index	"R" Value = 50
≤ 5.0	3" AC / 4" AB
6.0	3" AC / 5" AB
	Portland Cement Concrete Sections
≤ 6.0	6½" PCC / 4" AB
buses	7½" PCC / 6" AB

AC = Asphaltic Concrete
PCC = Portland Cement Concrete
AB = Aggregate Base

Concrete compressive strength ≥ 3,500 psi

Reinforcement Design should be provided by the civil engineer taking into consideration the traffic index, wheel loading and edge effects

8.8.2 Subgrade Preparation

The subgrade soils within areas of proposed paving should be moistened to slightly above the optimum moisture content and compacted to at least 90% of the laboratory standard prior to placing aggregate base.

8.8.3 Aggregate Base Preparation

The aggregate base materials should be moistened to slightly above the optimum moisture content and compacted to at least 95% of the laboratory standard prior to placing concrete.

8.9 SITE DRAINAGE

Positive drainage should be consistently provided and maintained away from structures during and after construction per the grading plan or applicable building codes. In addition, drainage should not be changed creating an adverse drainage condition.

Water should not be allowed to gather or pond against foundations or hardscape allowing water migration into the subgrade. Therefore, landscape watering should be held to a minimum and irrigation systems maintained in good repair. Sprinkler or plumbing leaks should be immediately repaired. Trees should be spaced so that roots will not extend under foundations or slabs. Planters near a structure should be constructed so that irrigation water will not saturate footing and slab subgrade soils.

8.10 PLAN REVIEW

This office should review the building location, grading plans, foundation plans and specifications prior to starting construction to review conformance to recommendations in this report. Additional analysis and recommendations may be necessary based on this plan review.

9.0 CLOSURE

This report was prepared under the direction of a registered geotechnical engineer and certified engineering geologist. No warranty, expressed or implied, is made as to conclusions and professional advice included in this report. Gorian and Associates, Inc. disclaims any and all responsibility and liability for problems that may occur if the recommendations presented in this report are not followed.

This report was prepared for Los Angeles Unified School District and their design consultants solely for the design and construction of the development described herein. This report may not contain sufficient information for other uses or the purposes of other parties. The recommendations are based on interpretations of the subsurface conditions concluded from information gained from subsurface explorations and a surficial site reconnaissance. The interpretations may differ from actual subsurface conditions, which can vary horizontally and vertically across the site. Due to possible subsurface variations, a representative of this office should observe all aspects of field construction addressed in this report. Anyone using this report for bidding or construction purposes should perform such independent investigations as they deem necessary.

The scope of the services provided by Gorian and Associates, Inc. and its staff, excludes responsibility and/or liability for work conducted by others. Such work includes, but is not limited to, means and methods of work performance, quality control of the work, superintendence, sequencing of construction and safety in, on, or about the jobsite.

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Please call if you have any questions regarding this report or require additional information.

Respectfully,

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BUILDING KEY		YB	FCI
1	ADMINISTRATIVE ACADEMIC BLDG	1936	42%
2	ASSEMBLY BUILDING	1937	41%
3	CAFETERIA BUILDING	1936	43%
4	ADMINISTRATIVE/ACADEMIC BLDG	1936	42%
5	SCIENCE & CLASSROOM BLDG	1970	48%
6	BOYS GYMNASIUM BLDG	1955	26%
7	GIRL'S GYMNASIUM BUILDING	1957	25%
8	POWER VAULT BLDG	1915	79%
9	LUNCH SERVICE (FORMER M0197F)	1920	44%
10	LUNCH SHELTER (FORMER M0533K)	1941	80%
11	MECHANICAL ARTS BLDG	1938	35%
12	MUSIC BUILDING	1951	37%
13	STORAGE UNIT 2	1959	0%*
14	STORAGE UNIT 1	1938	36%
15	FLAMMABLE STORAGE UNIT 1	1953	0%
16	HOMEMAKING BLDG	1960	50%
17	TWO/THREE UNIT RELOCATABLE	1946	
18	TWO/THREE UNIT RELOCATABLE	1935	50%
19	TWO/THREE UNIT RELOCATABLE	1935	50%
20	TWO/THREE UNIT RELOCATABLE	1947	
21	INDUSTRIAL ARTS BLDG	1959	27%
22	TWO/THREE UNIT RELOCATABLE	1950	56%
23	SINGLE UNIT RELOCATABLE	1950	53%
24	TWO/THREE UNIT RELOCATABLE	1960	67%
25	METAL SHOP BUILDING	1964	58%
26	TWO/THREE UNIT RELOCATABLE	1962	63%
27	FLAMMABLE STORAGE UNIT 3	1961	3%
28	FLAMMABLE STORAGE UNIT 2	1957	0%
29	STORAGE UNIT 4	1962	38%*
30	BUILDING REMOVED		
31	SINGLE UNIT RELOCATABLE	1949	43%
32	TWO/THREE UNIT RELOCATABLE	1961	52%
33	SANITARY UNIT UNDER BLEACHERS	1926	95%
34	PUMP VAULT	1959	15%
35	SINGLE UNIT MODULAR	1988	44%
36	SINGLE UNIT MODULAR		
37	SINGLE UNIT MODULAR		4%
38	SINGLE UNIT MODULAR		30%
39	BUILDING REMOVED		
40	BUILDING REMOVED		
41	BUILDING REMOVED		
42	STORAGE UNIT RELOCATABLE	1946	23%
43	TWO/THREE UNIT RELOCATABLE	1950	
44	SANITARY MODULAR	2000	57%
45	DOUBLE UNIT MODULAR	2000	50%
46	DOUBLE UNIT MODULAR	2000	50%
47	SINGLE UNIT MODULAR	2001	2%
48	DOUBLE UNIT MODULAR	2003	2%
49	NEW LUNCH SHELTER	2004	
50	NEW TECH LUNCH SHELTER	2008	
51	NEW AGRICULTURE BUILDING		97%

ENROLLMENT

CURRENT ENROLLMENT	1,799
PROJECTED CAPACITY	1,516
CAPACITY	1,987

EXISITNG PARKING: 110

PARKING REQUIRED PER PLANNING CAPACITY: 184

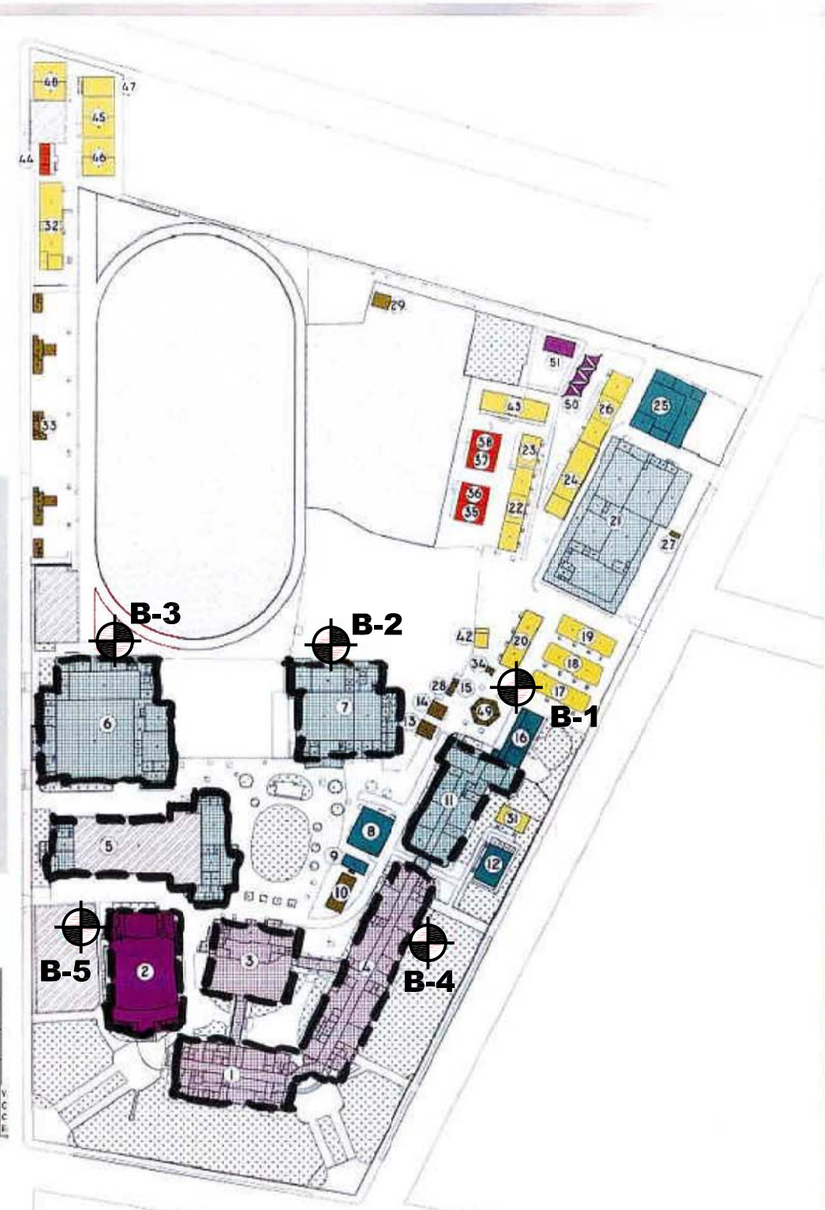
UNDERSIZED CORE:
LIBRARY
LUNCH SHELTER

CLASSROOM COUNT

PERMANENT SMALL CLASSROOM:	13
PERMANENT STANDARD CLASSROOM:	47
PORTABLE STANDARD CLASSROOM:	22
TOTAL NUMBER OF CLASSROOMS:	82

PERMANENT & PORTABLES BUILDINGS

JEFFERSON HS - LEGEND		JEFFERSON HS - LEGEND	
2	BUILDING NUMBER	SEISMIC EVALUATION REQUIRED	
	HIGH QUALITY PERMANENT		HIGH QUALITY PERMANENT
	MEDIUM QUALITY PERMANENT		MEDIUM QUALITY PERMANENT
	LOW QUALITY PERMANENT		LOW QUALITY PERMANENT
	DETERIORATED PORTABLE		
	PORTABLE		



BORING

ABSCO

EXPLANATION

B-5 Approximate Location of Exploratory Boring

Gorian & Associates, Inc.
Applied Earth Sciences

Job No: 2880-30-0-100		Date: July 2015
Scale:	Drawn by:	PLATE 1
	Approved by:	

JEFFERSON SH
1319 East 41st Street
Los Angeles, CA 90011

Existing Campus Conditions

EXPLORATION LOCATION MAP

APPENDIX A

LOGS OF SUBSURFACE DATA

Project: LAUSD - Jefferson High School

Work Order: 2880-30-0-100

SUBSURFACE LOG

Excavation Number: B-1

Page Number: 1

Date(s) Excavated 6/16/15	Logged By CHD	Excavation Location See Map	Approximate Surface Elevation
Excavation Dimension 8"	Equipment Contractor Discovery Drilling	Equipment Type CME75 HSA	Hammer Data Auto 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								ASPHALTIC CONCRETE (3") ON AGGREGATE BASE (5"). Damp, dense.	
						CL		ARTIFICIAL FILL: Dark brown sandy CLAY (very moist, medium stiff). Mottled. Minor debris.	
			10	6.5	100	SM		ALLUVIUM: Brown silty fine SAND (damp, medium dense).	
5			11	3.4	99	SM		Yellowish brown silty fine SAND (damp, medium dense).	
			13	1.8	96	SM		Light yellowish brown fine SAND (damp medium dense). Friable.	
10			13	1.3	100	SP		Light yellowish brown fine to coarse SAND (dry to damp, medium dense). Friable. Some fine to coarse gravel.	
15			19	1.7	100				
20			20						
25			26						
								Total Depth 26' No caving No groundwater Backfilled with cuttings Cold patch on top	
30									
35									

Project: LAUSD - Jefferson High School

Work Order: 2880-30-0-100

SUBSURFACE LOG

Excavation Number: B-2

Page Number: 1

Date(s) Excavated 6/16/15	Logged By CHD	Excavation Location See Map	Approximate Surface Elevation
Excavation Dimension 8"	Equipment Contractor Discovery Drilling	Equipment Type CME75 HSA	Hammer Data Auto 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0						CL		ASPHALTIC CONCRETE (2½")	
	■							ARTIFICIAL FILL: Yellowish brown silty CLAY with shale fragments (very moist, stiff).	S:M:C 73:18:9
		■	13	6.1	109				
	■					SM		ALLUVIUM: Yellowish brown silty fine SAND (damp, medium dense).	
5		■	10	4.7	99				
		■	11	3.3	99				
						SM		Light yellowish brown fine SAND (damp, medium dense). Friable.	
10		■	16	2.3	93				
						SP		Light yellowish brown fine to coarse SAND (damp, medium dense). Friable.	
15		■	17	1.4	109				
						SM		Yellowish brown silty fine SAND (damp, medium dense).	
20		■	23	4.9	99				
						SP		Light yellowish brown fine to coarse SAND (damp, medium dense). Friable.	
25		☒	26						
								Total Depth 26' No caving No groundwater Backfilled with cuttings Cold patch on top	
30									
35									

Project: LAUSD - Jefferson High School

Work Order: 2880-30-0-100

SUBSURFACE LOG

Excavation Number: B-3

Page Number: 1

Date(s) Excavated 6/16/15	Logged By CHD	Excavation Location See Map	Approximate Surface Elevation
Excavation Dimension 8"	Equipment Contractor Discovery Drilling	Equipment Type CME75 HSA	Hammer Data Auto 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								ASPHALTIC CONCRETE (2½") ON AGGREGATE BASE (4½")	
						SM		Damp, dense.	
								ALLUVIUM:	
	■		15	5.5	105			Brown to yellowish brown silty fine SAND (damp, medium dense).	
5		◣	1/2/1					At 5'; becoming moist, loose.	S:M:C 56:30-14
		■	12	12.3	97			At 8'; becoming medium dense.	
10		◣	3/5/6			SP		Light yellowish brown fine SAND (damp, medium dense). Friable.	
		■	25	3.7	97				
15		◣	2/3/4			SM		Yellowish brown silty fine SAND (moist, loose to medium dense).	
		■	22	4.3	102	SM		Light yellowish brown fine SAND (damp, medium dense).	
20		◣	5/7/5						
		■	20	5.5	94			At 23'; becoming moist.	
25		◣	5/7/7			SP		Light yellowish brown fine to coarse SAND (damp, medium dense). Friable.	
		■	23	5.2	108	SM		Yellowish brown silty fine SAND (moist, medium dense).	
30		◣	8/14/17			SP		Light yellowish brown fine SAND (damp, dense). Friable.	
		■	32	2.2	98				
35		◣	10/17/16						
		■	52	4.7	100			At 38'; becoming very dense.	

Project: LAUSD - Jefferson High School

Work Order: 2880-30-0-100

SUBSURFACE LOG

Excavation Number: B-3

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
40			9/ 15/ 13					At 40'; becoming medium dense.	
			35	3.3	105			At 43'; becoming dense.	
45			11/ 16/ 17			SP		Light yellowish brown fine to coarse SAND, some fine gravels (damp, dense to very dense). Friable.	
			48					At 47'; moderate chatter on gravels.	
50			40/ 50+						
								Total Depth 51' No caving No groundwater Backfilled with cuttings Cold patch on top	
55									
60									
65									
70									
75									
80									

Project: LAUSD - Jefferson High School

Work Order: 2880-30-0-100

SUBSURFACE LOG

Excavation Number: B-4

Page Number: 1

Date(s) Excavated 6/15/15	Logged By CHD	Excavation Location See Map	Approximate Surface Elevation
Excavation Dimension 8"	Equipment Contractor Discovery Drilling	Equipment Type CME75 HSA	Hammer Data Auto 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0			11	6.0	99	SM		ALLUVIUM: Light brown silty fine SAND (damp to slightly moist, medium dense).	
			13	5.9	101				
5			3/4/5						
			14	26.3	86	SM		Yellowish brown silty fine SAND (damp, loose). At 8'; becoming medium dense with thin silt interstratifications.	
10			4/7/9			SP/SM		Yellowish brown silty fine SAND to SAND (damp, medium dense).	S:M:C 89:6:5
			8	3.1	109	SP		Light yellowish brown fine to coarse SAND (damp, loose).	
15			2/3/4			ML		Grayish brown SILT to clayey SILT (very moist, medium stiff).	
			13	4.5	100	SP		Light yellowish brown fine to coarse SAND (damp to moist, medium dense).	
20			6/14/15						
			23	5.5	102				
25			10/13/14					At 25'; moderate chatter.	
			24	5.3	98				
30			9/18/25					At 30'; becoming dense.	
			43	3.0	109			At 33'; some fine to coarse gravels.	
35			10/15/16						
			38	3.6	110	SM		Yellowish brown silty fine to coarse SAND (damp to moist, medium dense).	

Project: LAUSD - Jefferson High School

Work Order: 2880-30-0-100

SUBSURFACE LOG

Excavation Number: B-4

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
40			10/ 10/7					Yellowish brown silty fine to coarse SAND (damp to moist, medium dense).	S:M:C 82:12:6
						SC		Brown clayey fine to coarse SAND (very moist, medium dense).	
			38	17.9	113	SM		Brown to yellowish brown silty fine SAND (very moist, dense).	
45			6/ 14/ 18			SP		Light yellowish brown fine SAND (damp, dense).	
			27	5.2	97	SP		Light yellowish brown fine to coarse SAND (damp, medium dense).	
50			10/ 31/ 40						
								Total Depth 51½' No caving No groundwater Backfilled with cuttings	
55									
60									
65									
70									
75									
80									

Project: LAUSD - Jefferson High School

Work Order: 2880-30-0-100

SUBSURFACE LOG

Excavation Number: B-5

Page Number: 1

Date(s) Excavated 6/15/15	Logged By CHD	Excavation Location See Map	Approximate Surface Elevation
Excavation Dimension 8"	Equipment Contractor Discovery Drilling	Equipment Type CME75 HSA	Hammer Data Auto 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								ASPHALTIC CONCRETE (3½") ON AGGREGATE BASE (5").	
			20			SM		Damp, dense.	
								ARTIFICIAL FILL: Yellowish brown silty fine SAND (damp, medium dense). Some concrete debris and asphaltic concrete debris. Heavy chatter.	
			8	3.9	97	SM		ALLUVIUM: Yellowish brown silty fine SAND (damp, loose to medium dense).	
5			14	2.5	100				
			12	1.6	92	SP		Light yellowish brown fine to coarse SAND (damp, medium dense). Friable.	
10			15	1.7	101				
						SM		Yellowish brown silty fine to very fine SAND (damp, medium dense).	
15			18	12.3	92				
						SP		Light yellowish brown fine to coarse SAND (damp to slightly moist, medium dense to dense). Friable.	
20			31	2.2	113				
25			31	3.1	101				
								Total Depth 26' No caving No groundwater Backfilled with cuttings Cold patch on top	
30									
35									

APPENDIX B

LABORATORY TESTING

General

Laboratory test results on selected samples are presented below. Test were performed to evaluate the physical and engineering properties of the encountered earth materials, including in-situ moisture and dry density, compaction characteristics, expansion potential, consolidation characteristics and shear strength parameters. R-Value and soil corrosivity testing were performed under subcontract by a testing laboratory and corrosion engineer, respectively.

Field Density and Moisture Tests

In-situ dry density and moisture content were determined from the relatively undisturbed drive samples obtained during exploratory operations. The test results and a detailed description of the earth materials encountered are shown on the attached Logs of Subsurface Data, Appendix A.

Soil Expansion Test

Expansion Index tests were performed on selected bulk samples of the encountered materials. The results are as follows:

Sample	Expansion Index	Expansion Index Range	Expansion Potential
B-1 @ 3’	0	0 - 20	Very Low
B-2 @ 1’	67	51 - 90	Medium

Optimum Moisture-Maximum Density Curve

Maximum density/optimum moisture tests (compaction characteristics) were performed on a selected bulk sample of the encountered materials. The results are as follows:

Sample	Visual Soil Classification	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
B-4 @ 2’	Silty fine sand	122.7	11.0

Direct Shear Tests

Strain controlled direct shear testing was performed on two relatively undisturbed samples and one remolded sample set. The sample sets were saturated prior to shearing under axial loads ranging from 920 to 3,680 psf. The shear strength results are presented as graphic summaries.

Load Consolidation Testing

Load consolidation tests were conducted on three relatively undisturbed drive samples. Test loads were added in increments to a maximum of 8,000 psf. Water was added at the approximate overburden pressure to study the effect of moisture infiltration on potential consolidation behavior. The consolidation results are presented on the attached figures as graphic summaries.

Grain Size Distribution

Grain size distribution analyses were performed on several bulk soil samples. The grain size was evaluated by hydrometer analysis. Hydrometer analyses were performed using a 50-gram sample. A table summarizing the results is presented below.

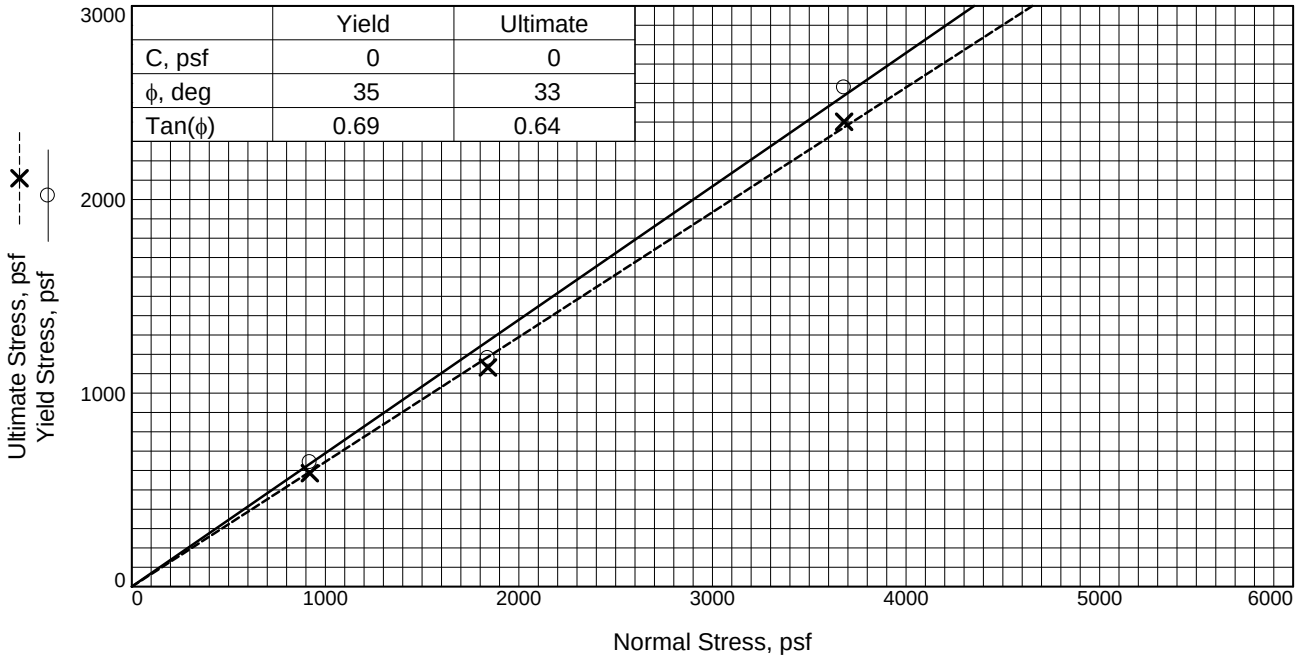
HYDROMETER RESULTS						
Boring	**Depth (feet)**	**% Sand**	**% Silt**	**% Clay**	**% Fines (silt and clay)**	**Classification**
B-2	3	73	18	9	27	SM
B-3	5	56	30	14	44	SM
B-4	10	89	6	5	11	SP-SM
B-4	40	82	12	6	18	SM

R-Value Determination

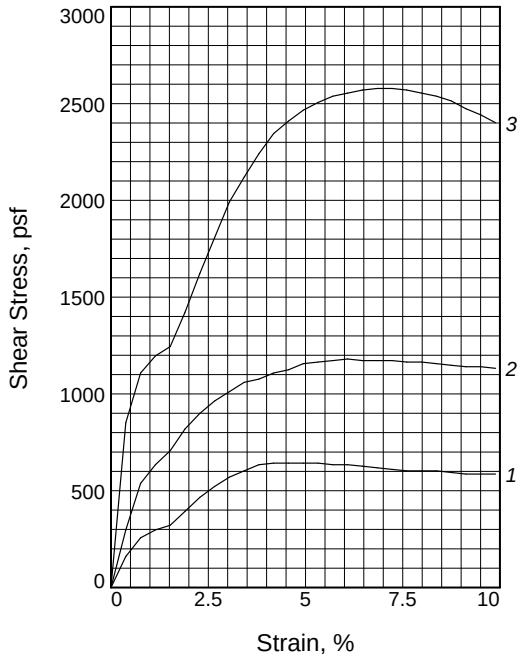
An R-Value determination was conducted by a subcontractor on the typical soil type encountered in the proposed pavement area. The test was performed in general accordance with the California State Test Method No. 301-F. An R-Value of 64 is indicated. The test results are attached.

Corrosion Testing

A soil sample was sent under separate contract to be tested for corrosive properties. The test results are attached.



	Yield	Ultimate
C, psf	0	0
ϕ, deg	35	33
Tan(ϕ)	0.69	0.64



	Sample No.	1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Yield Stress, psf		643	1181	2578
Strain, %		4.9	6.1	6.8
Ultimate Stress, psf		586	1132	2401
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.02	0.02	0.02

Sample Type: Undisturbed
Description:

Specific Gravity=
Remarks:

Figure _____

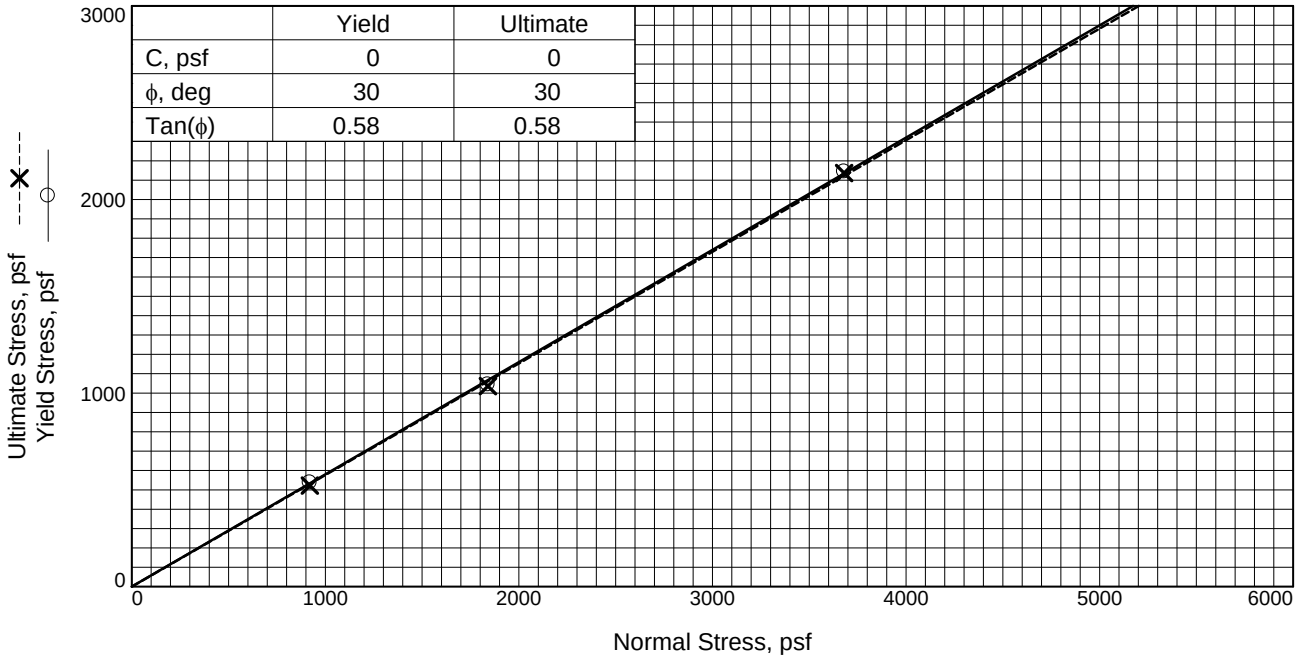
Client: LAUSD

Project: LAUSD - Jefferson High School

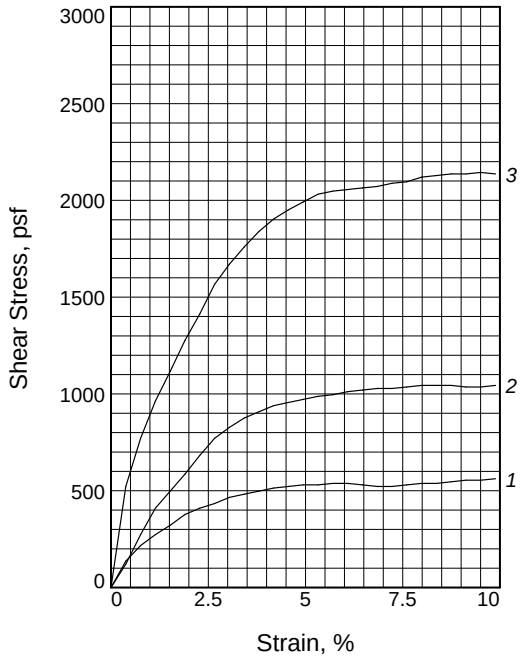
Sample Number: B-1 @ 5'

Proj. No.: 2880-30-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA



	Yield	Ultimate
C, psf	0	0
ϕ, deg	30	30
Tan(ϕ)	0.58	0.58



	Sample No.	1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
	Normal Stress, psf	920	1840	3680
	Yield Stress, psf	538	1044	2144
	Strain, %	6.1	8.4	9.5
	Ultimate Stress, psf	522	1036	2136
	Strain, %	7.2	9.5	9.9
	Strain rate, in./min.	0.02	0.02	0.02

Sample Type: Undisturbed
Description:

Specific Gravity=
Remarks:

Figure _____

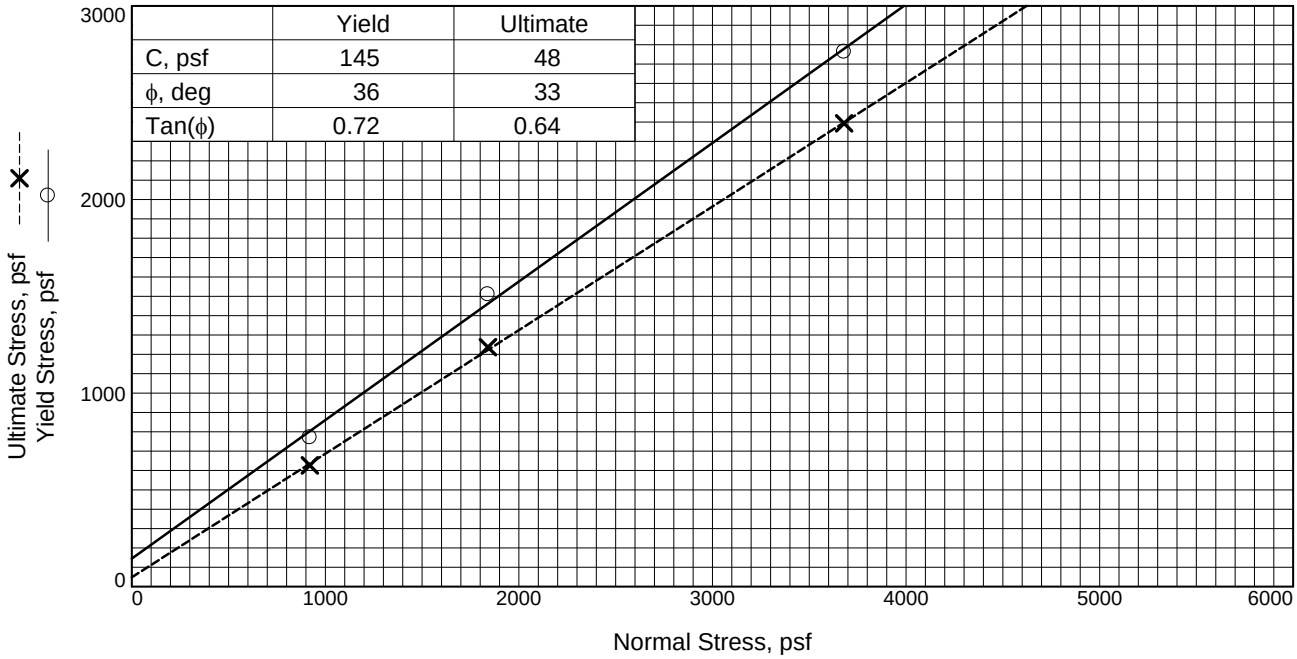
Client: LAUSD

Project: LAUSD - Jefferson High School

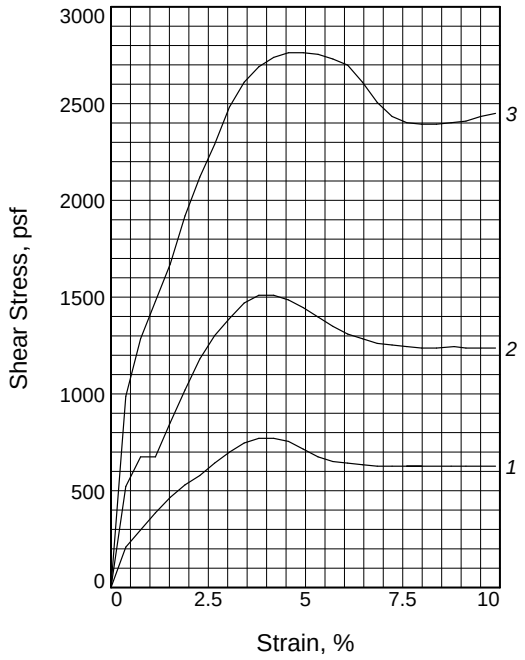
Sample Number: B-3 @ 8'

Proj. No.: 2880-30-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA



	Yield	Ultimate
C, psf	145	48
ϕ, deg	36	33
Tan(ϕ)	0.72	0.64



	Sample No.	1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
	Normal Stress, psf	920	1840	3680
	Yield Stress, psf	771	1510	2763
	Strain, %	4.2	4.2	4.9
	Ultimate Stress, psf	626	1237	2393
	Strain, %	9.9	9.9	8.4
	Strain rate, in./min.	0.02	0.02	0.02

Sample Type: Remolded
Description:

Specific Gravity=
Remarks:

Figure _____

Client: LAUSD

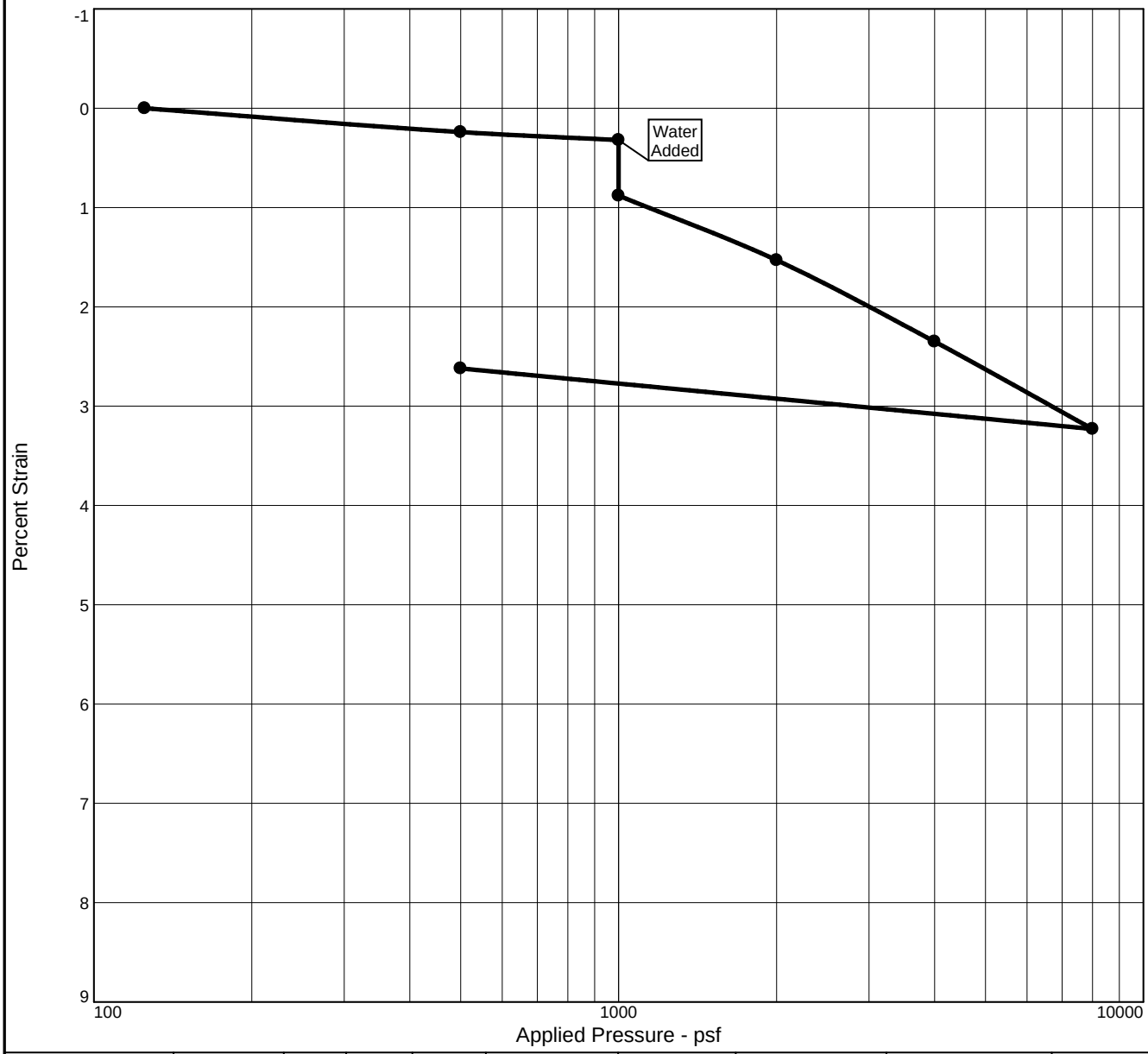
Project: LAUSD - Jefferson High School

Sample Number: B-4 @ 2'

Proj. No.: 2880-30-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	e_o	Swell Press. (psf)	Clpse. %	C_r
Sat.	Moist.									
									0.6	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-30-0- **Client:** LAUSD

Project: LAUSD - Jefferson High School

Sample Number: B-2 @ 20'

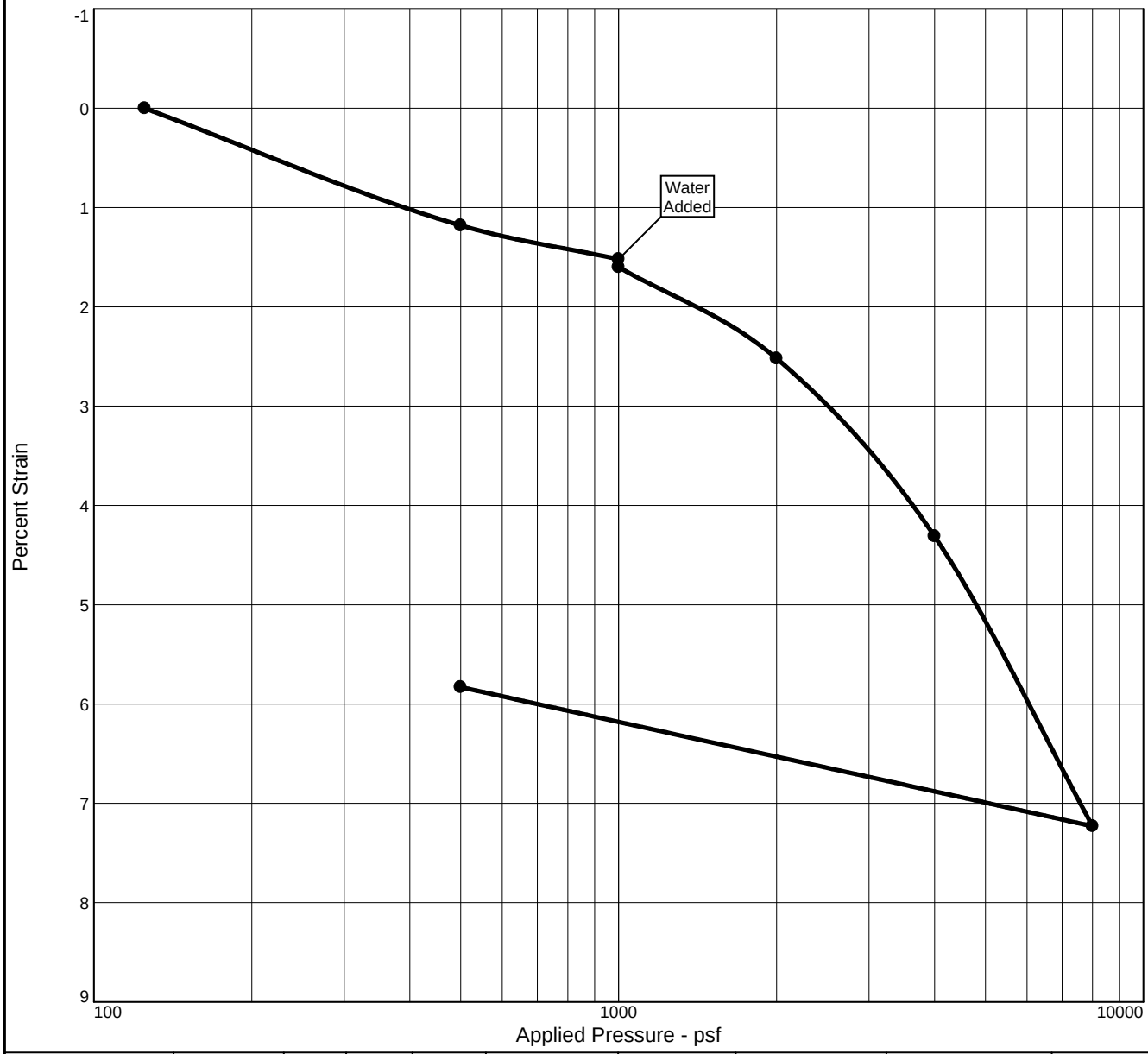
Remarks:

Gorian & Associates

Thousand Oaks, CA

Figure

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	e_o	Swell Press. (psf)	Clpse. %	C_r
									0.1	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-30-0- **Client:** LAUSD

Project: LAUSD - Jefferson High School

Sample Number: B-4 @ 8'

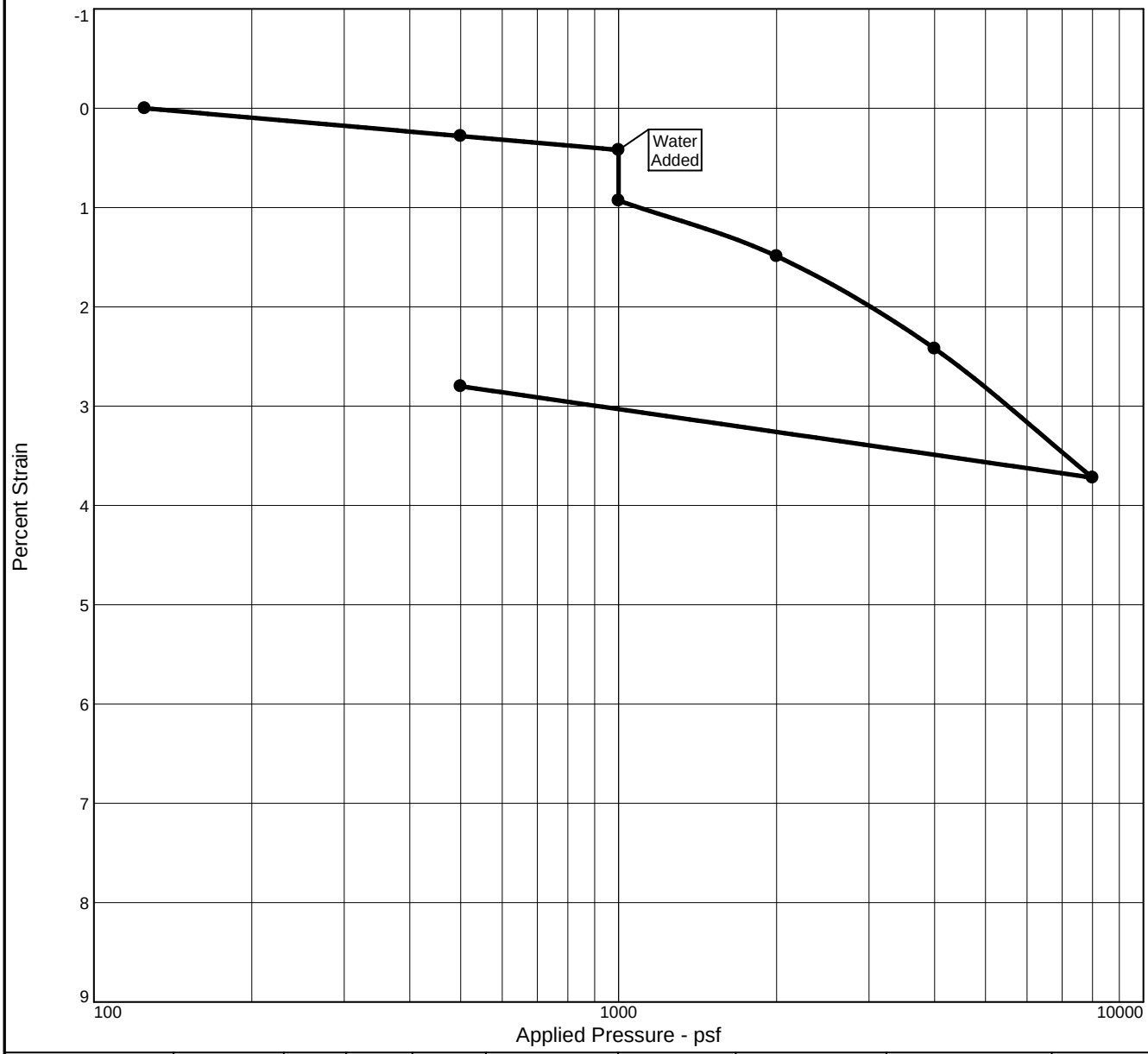
Remarks:

Gorian & Associates

Thousand Oaks, CA

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	e_o	Swell Press. (psf)	Clpse. %	C_r
Sat.	Moist.									
									0.5	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-30-0- **Client:** LAUSD

Project: LAUSD - Jefferson High School

Sample Number: B-5 @ 15'

Remarks:

Gorian & Associates

Thousand Oaks, CA

Figure

NV5 WEST, INC.
(Formerly BTC LABS - VERTICALFIVE)
1868 Palma Drive, Suite A, Ventura, CA 93003
Telephone (805) 656-6074; Fax (805)650-6264

RESISTANCE "R" VALUE TEST

(ASTM D2844/CTM301)

June 23, 2015

File No: -
DSA/OSHPD No: -

Gorian & Associates, Inc.
3595 Old Conejo Rd.
Thousand Oaks, CA 91360

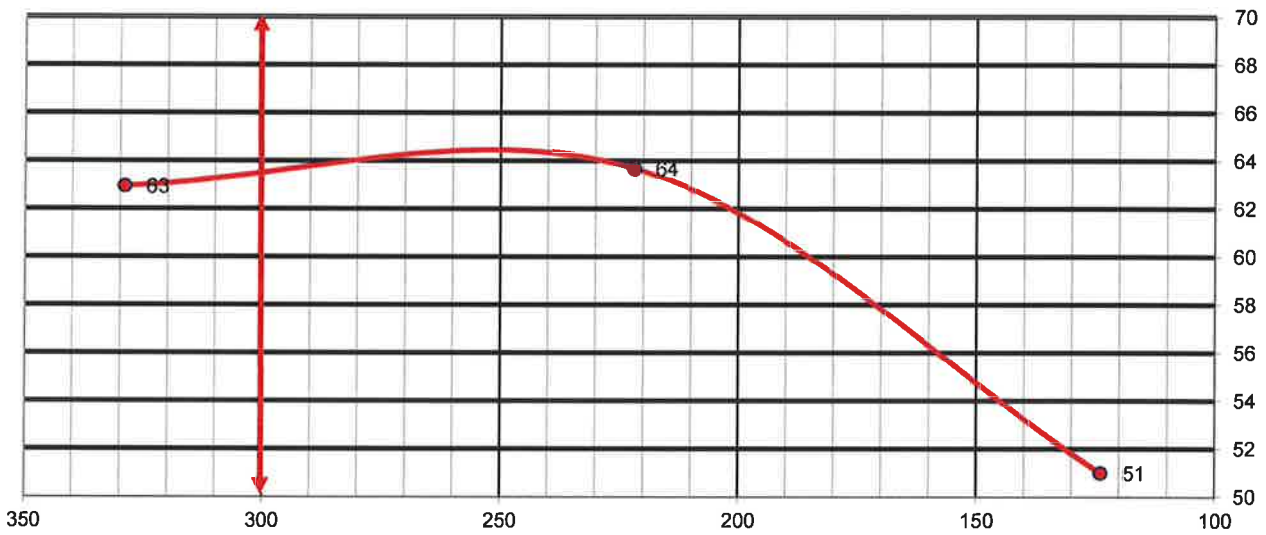
NV5 JOB No: **10-000938**
LAB No: 85315
W.O. No: -

Project: Gorian & Associates, Inc - Jefferson High School (2880-30-0-100)

Material: Brown silty fine Sand (SM) w/trace fine gravels
Location: Soil from Boring #5
Sampled By: Client
Date Received: 6/19/15

Depth: 1-4.0'

"R" VALUE BY EXUDATION GRAPH



TEST SPECIMEN	A	B	C	D
COMP. FOOT PRESSURE, psi				
INITIAL MOISTURE %	4.4	4.4	4.4	
MOISTURE @ COMPACTION %	13.1	12.8	12.7	
DRY DENSITY, pcf	115.9	116.6	116.2	
EXUDATION PRESSURE, psi	124	222	329	
STABILOMETER VALUE 'R'	51	57	63	
			R-Value @ Equilibrium =	**64**

Reviewed By: _____

Atlantic Consultants

112 Bunker Court
Folsom, CA 95630
(ph) 916.849.6420 (fax) 916.983.1838
Kerri@AtlanticCorrosionEngineers.com
corrprincess@ardennet.com
www.AtlanticCorrosionEngineers.com

July 1, 2015

Gorian and Associates, Inc.
Attention: Sheryl Shatz
Thousand Oaks, CA 91320

Atlantic Job No.: 2015-039

Subject: Soil Chemistry Analysis for Gorian Job # 2880-30-0-100
3 Samples: LAUSD, Jefferson High School (B-2 @ 1', B-3 @ 2' and B-5 @5')

Sample Number	As Rec'd Resistivity (ohm-cm)	[1]Minimum Resistivity (ohm-cm)	[2] Ph	[3] Sulfate %	[3] Chloride %	[4] Ammonia %	[5] Keldahl Nitrogen %	(As Rec'd) Description
B-2	4,000	1,320	6.87	0.0031	0.0003	<0.0001	0.0215	Dk brn. Clay, moist
B-3	18,800	5,600	7.05	0.0042	0.0004	<0.0001	0.0136	Med. Brn. moist
B-5	56,600	10,800	7.65	0.0022	0.0004	<0.0001	0.0039	Med. Brn. Sandy moist

NOTE: SAMPLES WERE ANALYZED IN ACCORDANCE WITH THE FOLLOWING METHODS.

1. MINIMUM RESISTIVITY DETERMINED BY SOIL BOX METHOD, (PER ASTM G-57)
2. PH MEASURED BY POTENTIOMETRIC METHOD USING STANDARD ELECTRODES. (PER CAL TRANS. #643)
3. CHLORIDE AND SULFATE WERE ANALYZED IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSIS FOR WATER AND WASTE, NO. 300 EPA-600/4-79-020. CONCENTRATION BY WEIGHT OF DRY SOIL.
4. AMMONIA WAS ANALYZED IN ACCORDANCE WITH EPA METHOD 350.2
5. KELDAHL NITROGEN WAS ANALYZED IN ACCORDANCE WITH EPA METHOD 351.2

CONCLUSIONS:

Material	**Corrosion Class**	**Recommendation**
Concrete	Negligible for sulfate and chloride exposure. pH is neutral. (ACI 318)	-Type II Portland cement for concrete with maximum water cement ratio of 0.50 and a minimum of 3 inches of cover for steel reinforcement. - It is recommended that an impermeable moisture barrier (minimum 6 mil visqueen) be installed between concrete slabs and soil to reduce penetration of moisture from the soil into concrete slabs.
Steel Cast/Ductile Iron Mortar Coated Steel	Moderately to Negligibly Corrosive	- Install corrosion monitoring and cathodic protection for buried metal structures and piping. - Install joint bonds on all non-welded joints for buried ferrous metal piping to facilitate corrosion monitoring and proper operation of cathodic protection systems. - Electrically isolate underground metal piping from above grade piping and other metallic structures. - Use separate ground rods for grounding interior piping.
Copper Piping	Corrosive.	- Overhead plumbing is the most effective method of corrosion control. - Copper pipe is subject to corrosion when exposed to even trace amounts of ammonia. - Electrical isolation between hot and cold water lines and between structural steel should be maintained.

The test results are based on the samples provided, which may not be representative of overall site conditions. Additional sampling may be required to more fully characterize soil conditions.

Sincerely,

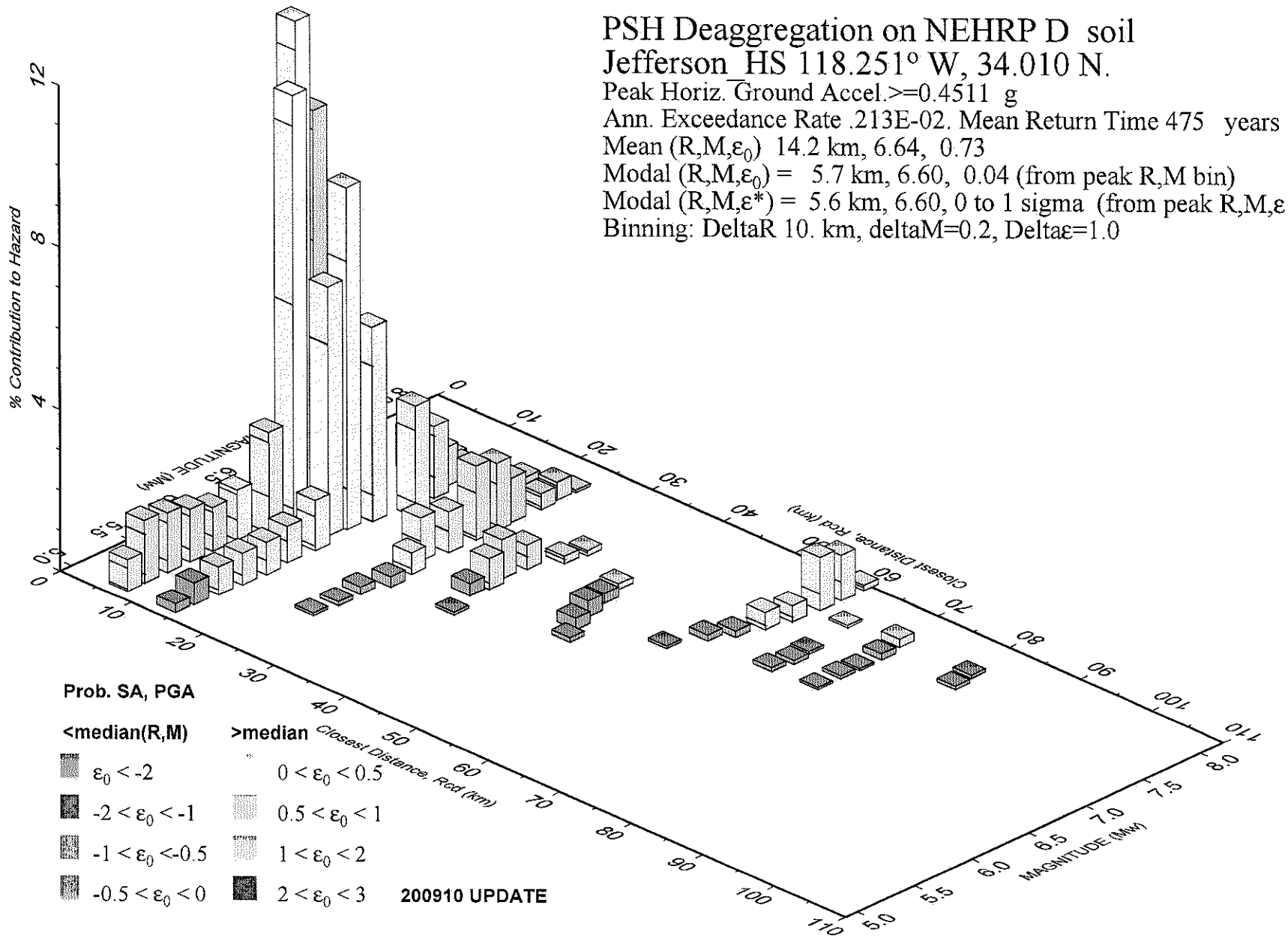
Kerri M. Howell, PE
President

APPENDIX C

SEISMICALLY INDUCED SETTLEMENT ANALYSES

PSH Deaggregation on NEHRP D soil
Jefferson_HS 118.251° W, 34.010 N.

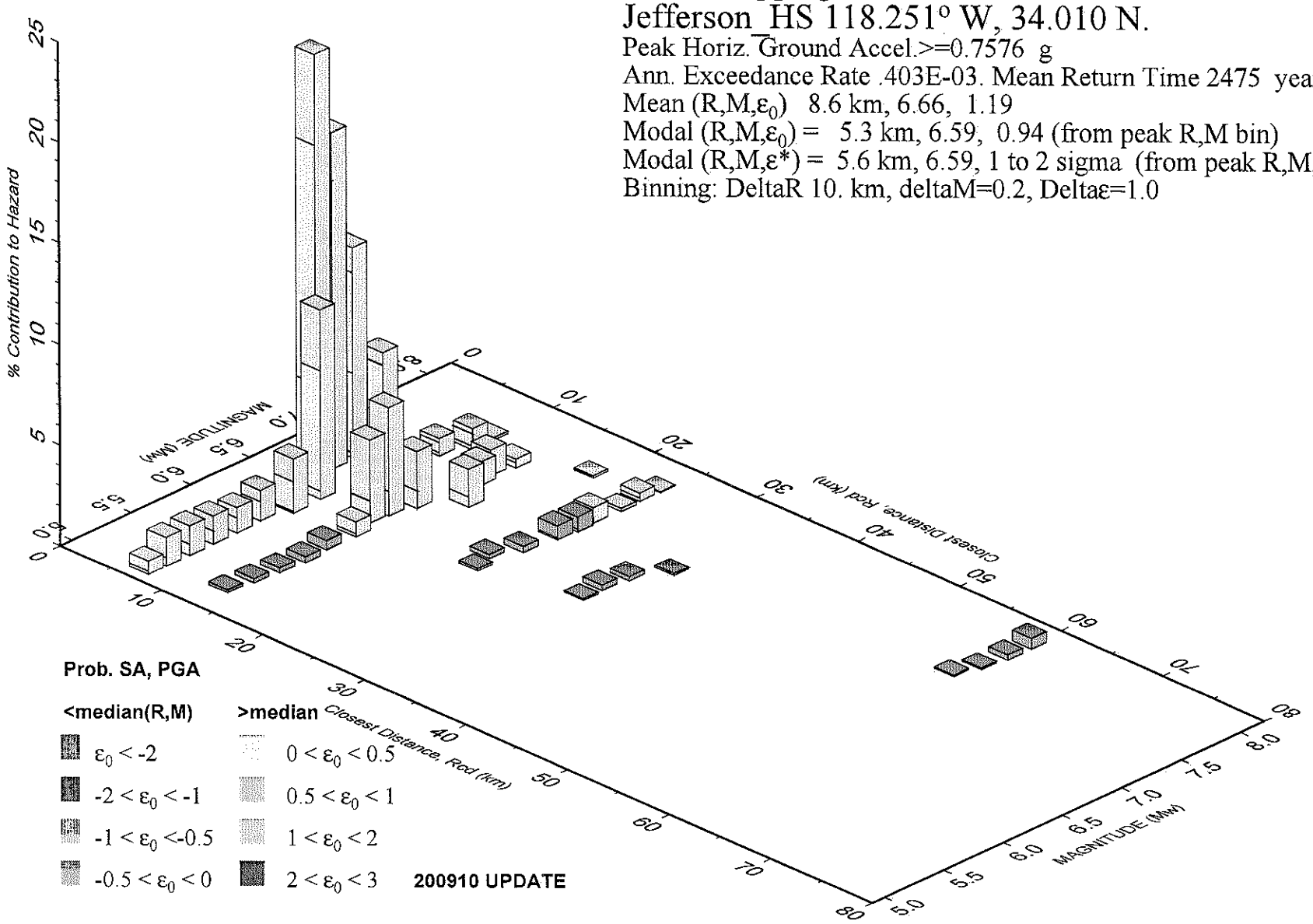
Peak Horiz. Ground Accel.>=0.4511 g
Ann. Exceedance Rate .213E-02. Mean Return Time 475 years
Mean (R,M,ε_0) 14.2 km, 6.64, 0.73
Modal (R,M,ε_0) = 5.7 km, 6.60, 0.04 (from peak R,M bin)
Modal (R,M,ε*) = 5.6 km, 6.60, 0 to 1 sigma (from peak R,M,ε bin)
Binning: DeltaR 10. km, deltaM=0.2, Deltaε=1.0



GMT 2015 Jun 23 23:30:04 Distance (R), magnitude (M), epsilon (E0,E) deaggregation for a site on soil with average vs= 275. m/s top 30 m. USGS CGHT PSHA2008 UPDATE Bins with lt 0.05% contrib. omitted

PSH Deaggregation on NEHRP D soil
Jefferson HS 118.251° W, 34.010 N.

Peak Horiz. Ground Accel.>=0.7576 g
Ann. Exceedance Rate .403E-03. Mean Return Time 2475 years
Mean (R,M,ε_0) 8.6 km, 6.66, 1.19
Modal (R,M,ε_0) = 5.3 km, 6.59, 0.94 (from peak R,M bin)
Modal (R,M,ε*) = 5.6 km, 6.59, 1 to 2 sigma (from peak R,M,ε bin)
Binning: DeltaR 10. km, deltaM=0.2, Deltaε=1.0



GMT 2015 Jun 23 23:29:24 Distance (R), magnitude (M), epsilon (E0,E) deaggregation for a site on soil with average vs= 275. m/s top 30 m. USGS CGHT PSHA2008 UPDATE Bins with lt 0.05% contrib. omitted

USGS Design Maps Detailed Report

ASCE 7-10 Standard (34.01021°N, 118.25114°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

Section 11.4.1 — Mapped Acceleration Parameters

Note: Ground motion values provided below are for the direction of maximum horizontal spectral response acceleration. They have been converted from corresponding geometric mean ground motions computed by the USGS by applying factors of 1.1 (to obtain S_S) and 1.3 (to obtain S_1). Maps in the 2010 ASCE-7 Standard are provided for Site Class B. Adjustments for other Site Classes are made, as needed, in Section 11.4.3.

From Figure 22-1 [1] $S_S = 2.097$ g

From Figure 22-2 [2] $S_1 = 0.739$ g

Section 11.4.2 — Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Chapter 20.

Table 20.3-1 Site Classification

Site Class	$\bar{v}_s$	$\bar{N}$ or $\bar{N}_{ch}$	$\bar{s}_u$
A. Hard Rock	>5,000 ft/s	N/A	N/A
B. Rock	2,500 to 5,000 ft/s	N/A	N/A
C. Very dense soil and soft rock	1,200 to 2,500 ft/s	>50	>2,000 psf
D. Stiff Soil	600 to 1,200 ft/s	15 to 50	1,000 to 2,000 psf
E. Soft clay soil	<600 ft/s	<15	<1,000 psf
	Any profile with more than 10 ft of soil having the characteristics: • Plasticity index $PI > 20$, • Moisture content $w \geq 40\%$, and • Undrained shear strength $\bar{s}_u < 500$ psf		
F. Soils requiring site response analysis in accordance with Section 21.1	See Section 20.3.1		

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

Section 11.4.3 — Site Coefficients and Risk-Targeted Maximum Considered Earthquake (MCE_R) Spectral Response Acceleration Parameters

Table 11.4-1: Site Coefficient F_a

Site Class	Mapped MCE_R Spectral Response Acceleration Parameter at Short Period				
	$S_S \leq 0.25$	$S_S = 0.50$	$S_S = 0.75$	$S_S = 1.00$	$S_S \geq 1.25$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
E	2.5	1.7	1.2	0.9	0.9
F	See Section 11.4.7 of ASCE 7				

Note: Use straight-line interpolation for intermediate values of S_S

For Site Class = D and S_S = 2.097 g, F_a = 1.000

Table 11.4-2: Site Coefficient F_v

Site Class	Mapped MCE_R Spectral Response Acceleration Parameter at 1-s Period				
	$S_1 \leq 0.10$	$S_1 = 0.20$	$S_1 = 0.30$	$S_1 = 0.40$	$S_1 \geq 0.50$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.7	1.6	1.5	1.4	1.3
D	2.4	2.0	1.8	1.6	1.5
E	3.5	3.2	2.8	2.4	2.4
F	See Section 11.4.7 of ASCE 7				

Note: Use straight-line interpolation for intermediate values of S_1

For Site Class = D and S_1 = 0.739 g, F_v = 1.500

Equation (11.4-1): $S_{MS} = F_a S_S = 1.000 \times 2.097 = 2.097$ g

Equation (11.4-2): $S_{M1} = F_v S_1 = 1.500 \times 0.739 = 1.109$ g

Section 11.4.4 — Design Spectral Acceleration Parameters

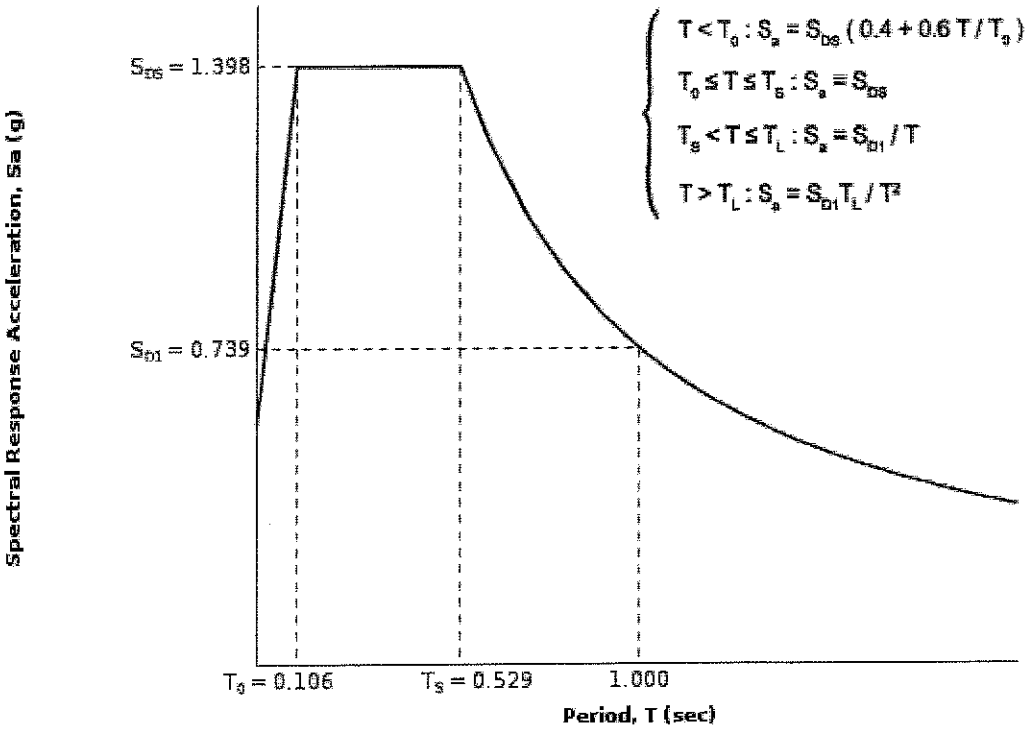
Equation (11.4-3): $S_{DS} = \frac{2}{3} S_{MS} = \frac{2}{3} \times 2.097 = 1.398$ g

Equation (11.4-4): $S_{D1} = \frac{2}{3} S_{M1} = \frac{2}{3} \times 1.109 = 0.739$ g

Section 11.4.5 — Design Response Spectrum

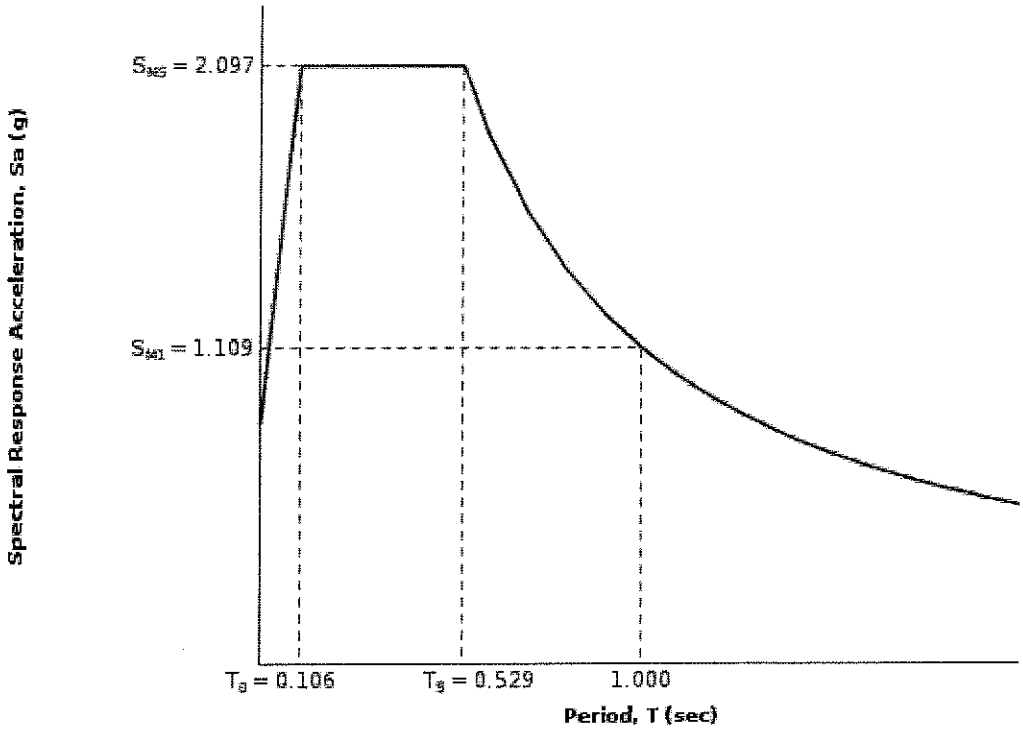
From Figure 22-12 [3] $T_L = 8$ seconds

Figure 11.4-1: Design Response Spectrum



Section 11.4.6 — Risk-Targeted Maximum Considered Earthquake (MCE_R) Response Spectrum

The MCE_R Response Spectrum is determined by multiplying the design response spectrum above by 1.5.



Section 11.8.3 — Additional Geotechnical Investigation Report Requirements for Seismic Design Categories D through F

From Figure 22-7 [4] PGA = 0.775

Equation (11.8-1): $PGA_M = F_{PGA}PGA = 1.000 \times 0.775 = 0.775$ g

Table 11.8-1: Site Coefficient F_{PGA}

Site Class	Mapped MCE Geometric Mean Peak Ground Acceleration, PGA				
	PGA ≤ 0.10	PGA = 0.20	PGA = 0.30	PGA = 0.40	PGA ≥ 0.50
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
E	2.5	1.7	1.2	0.9	0.9
F	See Section 11.4.7 of ASCE 7				

Note: Use straight-line interpolation for intermediate values of PGA

For Site Class = D and PGA = 0.775 g, F_{PGA} = 1.000

Section 21.2.1.1 — Method 1 (from Chapter 21 - Site-Specific Ground Motion Procedures for Seismic Design)

From Figure 22-17 [5] C_{RS} = 0.973

From Figure 22-18 [6] C_{R1} = 0.991

Section 11.6 — Seismic Design Category

Table 11.6-1 Seismic Design Category Based on Short Period Response Acceleration Parameter

VALUE OF S_{DS}	RISK CATEGORY		
	I or II	III	IV
$S_{DS} < 0.167g$	A	A	A
$0.167g \le S_{DS} < 0.33g$	B	B	C
$0.33g \le S_{DS} < 0.50g$	C	C	D
$0.50g \le S_{DS}$	D	D	D

For Risk Category = I and S_{DS} = 1.398 g, Seismic Design Category = D

Table 11.6-2 Seismic Design Category Based on 1-S Period Response Acceleration Parameter

VALUE OF S_{D1}	RISK CATEGORY		
	I or II	III	IV
$S_{D1} < 0.067g$	A	A	A
$0.067g \le S_{D1} < 0.133g$	B	B	C
$0.133g \le S_{D1} < 0.20g$	C	C	D
$0.20g \le S_{D1}$	D	D	D

For Risk Category = I and S_{D1} = 0.739 g, Seismic Design Category = D

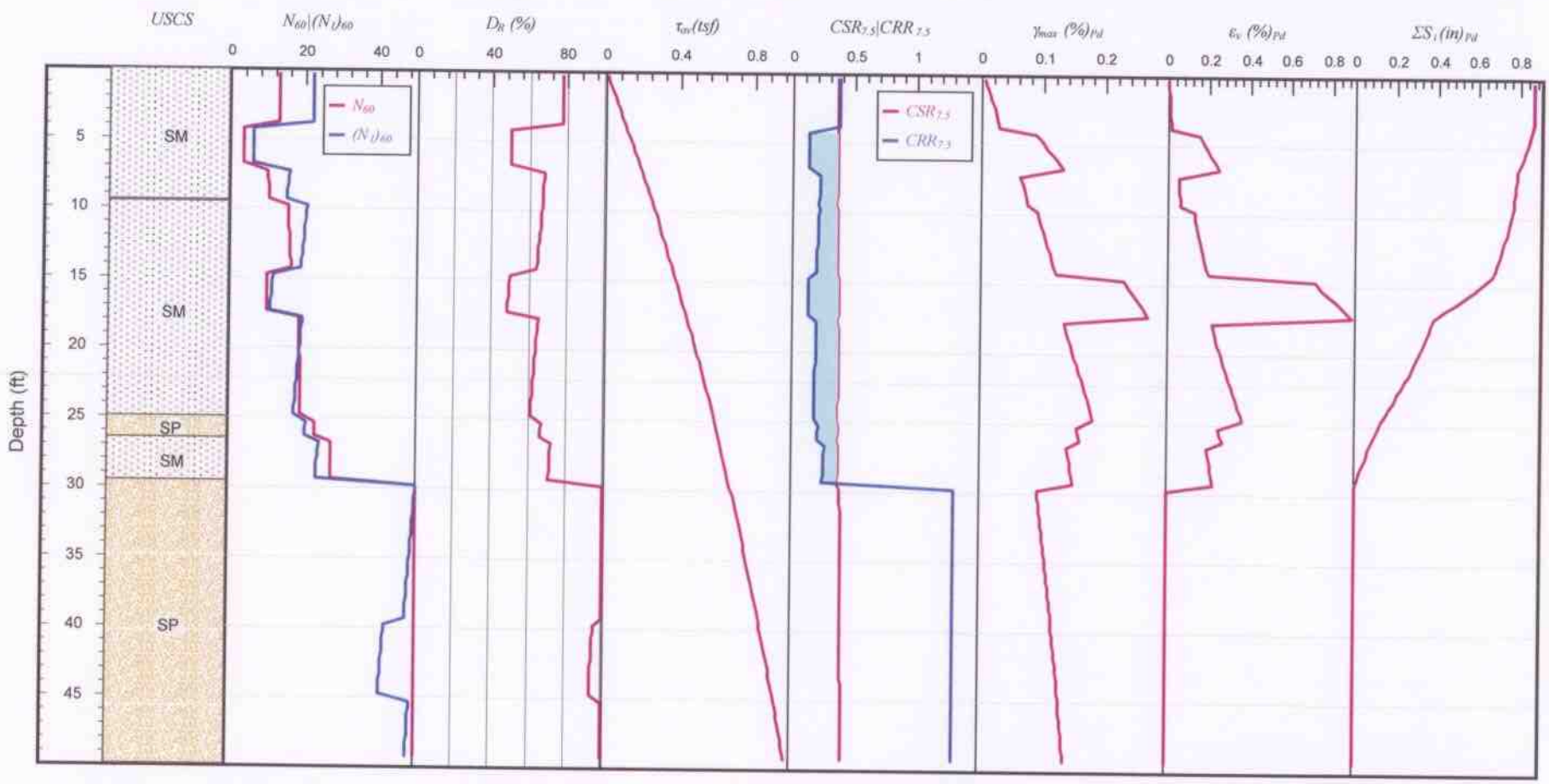
Note: When S_1 is greater than or equal to 0.75g, the Seismic Design Category is **E** for buildings in Risk Categories I, II, and III, and **F** for those in Risk Category IV, irrespective of the above.

Seismic Design Category ≡ "the more severe design category in accordance with Table 11.6-1 or 11.6-2" = D

Note: See Section 11.6 for alternative approaches to calculating Seismic Design Category.

References

1. *Figure 22-1*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-1.pdf
2. *Figure 22-2*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-2.pdf
3. *Figure 22-12*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-12.pdf
4. *Figure 22-7*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-7.pdf
5. *Figure 22-17*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-17.pdf
6. *Figure 22-18*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-18.pdf



SM

SP

Earthquake & Groundwater Information:
Magnitude = 6.66
Max. Acceleration = 0.775 g
Project GW = 65 ft
Maximum Settlement = 0.86 in
Settlement at Bottom of Footing = 0.86 in

Liquefaction: Idriss & Boulanger (2008)
Settl.: Pradel (1998)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC.

Seismic Settlement Potential - SPT Data					
Project:	LAUSD - Jefferson HS				
Location:	Los Angeles				
Work Order:	2880-30-0-100	Boring No.:	B-3	Figure:	1

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GeoSuite© Version 2.2.2.2. Developed by Fred Yi, PhD, PE, GE

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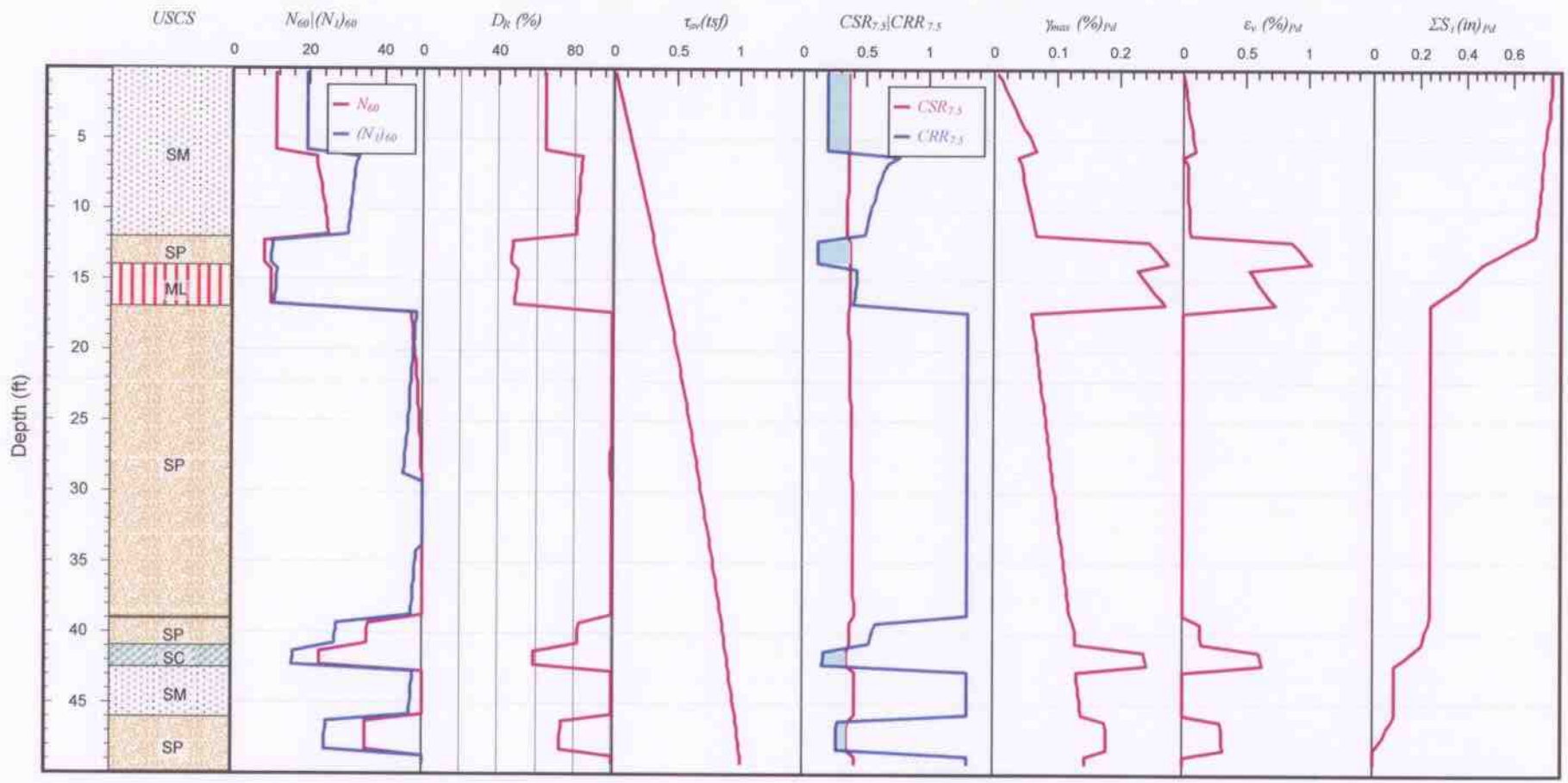

SM ML SP SC

Earthquake & Groundwater Information:
Magnitude = 6.66
Max. Acceleration = 0.775 g
Project GW = 65 ft
Maximum Settlement = 0.76 in
Settlement at Bottom of Footing = 0.76 in

Liquefaction: Idriss & Boulanger (2008)
Settl.: Pradel (1998)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC.

Seismic Settlement Potential - SPT Data

Project:	LAUSD - Jefferson HS				
Location:	Los Angeles				
Work Order:	2880-30-0-100	Boring No.:	B-4	Figure:	2

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-30-0 Jefferson\GeoSuite_2880-30-0-100_B-4.csv

GeoSuite© Version 2.2.2.2. Developed by Fred Yi, PhD, PE, GE
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Prepared at 7/10/2015 12:25:46 PM

Appendix E

Environmental Site Assessments

ESA

E-1 Phase I Environmental Site Assessment

PARTNER
Engineering and Science, Inc.®

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California 90011

Report Date: May 27, 2016
Partner Project No. 16-158197.1

Prepared for:

Los Angeles Unified School District,
Office of Environmental Health and Safety
333 South Beaudry Avenue, 28th Floor
Los Angeles, California 90011

May 27, 2016

Mr. Dane Robinson
Los Angeles Unified School District, Office of Environmental Health and Safety
333 South Beaudry Avenue, 28th Floor
Los Angeles, California 90011

Subject: Phase I Environmental Site Assessment
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California 90011
Partner Project No. 16-158197.1

Dear Mr. Robinson:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Phase I Environmental Site Assessment* (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in general conformance with the scope and limitations as detailed in the ASTM Practice E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (714) 397-3103.

Sincerely,

Gavin S. Jones, EP
Principal

EXECUTIVE SUMMARY

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in general accordance with the scope of work and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by Los Angeles Unified School District (LAUSD), Office of Environmental Health and Safety (OEHS) for the property located at 1319 East 41st Street in the City of Los Angeles, Los Angeles County, California (the "subject property"). The Phase I Environmental Site Assessment is designed to provide LAUSD OEHS with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

Property Description

The subject property is located on the north side of East 41st Street, south of East 33rd Street, to the west of Compton Avenue, and east of Hooper Avenue within a primarily residential area of south Los Angeles, California. Please refer to the table below for further description of the subject property:

Subject Property Data	
Address:	1319 East 41st Street, Los Angeles, California 3410 Hooper Avenue, Los Angeles, California
Additional Address:	3410 Hooper Avenue
Historical Address:	1319 East 38th Street, Los Angeles California
Property Use:	High School
Land Acreage (Ac):	18.15 Ac
Number of Buildings:	13 Permanent Buildings 15 Modular Buildings 11 Sheds, storage structures, covered areas and adjunct buildings (agricultural and storage sheds, ROTC, parent center, athletics structures)
Number of Floors:	One and Two (science Building has two floors of classrooms constructed over a ground-level parking lot)
Gross Building Area (SF):	Not Reported
Date of Construction:	1915/1916 – Boiler House 1933 – Auditorium, Main Office, and Academic Buildings
Assessor's Parcel Numbers (APNs):	5114-036-900 5114-036-901 5114-036-902 5114-036-903 5114-036-904
Type of Construction:	Concrete Masonry Unit, Brick, and Wood-Framed
Current Tenants:	Thomas Jefferson High School Nava College and Preparatory Academy Student Empowerment Academy
Site Assessment Performed By:	Robin Blanchard of Partner
Site Assessment Conducted On:	April 27, 2016

The subject property is currently occupied by a single campus used by three schools: Thomas Jefferson High School, which has occupied the site since 1915/1916; and Student Empowerment Academy Charter and Nava College and Preparatory Academy, which have occupied the property since 2006 and 2014, respectively. The on-site building include a main administration/classroom building, auditorium, science building, cafeteria, two gymnasiums, a boiler house, arts and shops buildings, and former industrial arts buildings, as well as modular classroom buildings, storage sheds, greenhouse, covered structures, and ancillary structures (athletic, ROTC, Wellness Center, parent's center, etc.). The northwest quarter of the subject property is developed with athletic fields, tennis courts, and a garden area.

According to available historical sources, the subject property was formerly undeveloped as early as 1850; used as part of a larger agricultural property from the 1880s through 1912, and used as a stadium for rodeos and livestock racing from the late 1800s to shortly before construction of the original school buildings beginning in 1915. With the exception of the boiler house, the original buildings were destroyed by an earthquake in 1933, and replaced with most of the current structures on the southern half of the subject property between 1935 and 1938. Additional buildings were completed in the 1960s and 1970s on the northeastern portion of the site and modular classrooms and storage structures have been also added since that time.

The immediately surrounding properties consist of residences and East 33rd Street followed by a truck storage lot to the north; residences, a market, and a church to the south beyond East 41st Street; residences and two large food products distribution facilities to the east across Compton Avenue; and Hooper Avenue followed by residences and a market to the west.

According to information obtained from online research, the City of Los Angeles, and topographic map interpretation, the depth and direction of groundwater in the vicinity of the subject property is inferred to be greater than 100 feet below ground surface (bgs) and flow toward the southwest.

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- The subject property operated on-site industrial arts classrooms including auto engine and auto body repair. The subject property is equipped with two below-grade hydraulic lifts located within the south end of the former industrial arts building and with a spray booth on the north end of the building. The lifts were reported installed during building construction in the 1960s and the spray booth was installed in the 1980s. Soil sampling in the area of the lifts and spray booth is recommended to evaluate the potential for releases of hydraulic oil, paints, or solvents to have impacted soil.
- Three oil/water separators (clarifiers) are located to the north and east of the industrial arts building and are connected to floor drains in the spray booth and in the repair areas. Soil

sampling in the area of the clarifiers is recommended to evaluate the potential for releases of oil or other petroleum based substances, and solvents to have impacted soil.

- There is one recently used shop area in the industrial arts building that previously was used for metal, electrical, wood-working, and printing classrooms and historic shop areas located south of the current industrial arts building and in the original 1916 science and arts buildings that occupied the current location of the Academic Building prior to 1933. Based on the age of the historic shop buildings dating to 1920 or earlier, there is potential for septic tanks, sumps, or clarifiers to remain in these areas.
- Two hazardous materials storage enclosures containing 55-gallon drums of gasoline and diesel fuel are located to the west of the current arts building and one former hazardous waste storage enclosure used to store waste oil, filters, and coolant in 55-gallon drums is located to the east of the industrial arts building. These structures date to the 1950s or 1960s and potential exists for releases from these storage area to have impacted soil.
- Two historical paint storage buildings were identified to the north and northwest of the boiler house. Potential exists that releases of paints or solvents in these locations has impacted soil,
- The boiler house building was constructed in 1916 and formerly housed fuel oil boilers and an incinerator. The potential exists that fuel oil ASTs and/or USTs were present beneath or near the building and that spillage or leakage from historical fuel storage has impacted soil.
- The northeastern portion of the subject property is used for a garden and appears to have been since prior to original site development in 1915/1916. Additionally, the center and the northeastern quarter of the property appear to have been used for agriculture until the 1950s or 1960s. Organochlorine pesticides may have been used historically in these areas.
- The potential exists for residual arsenates in soil and under pavement from application of arsenic-based herbicides, based on experience at other LAUSD school sites of similar age.
- Due to the age of the on-site structures and historical use of the property for agriculture, lead, arsenic, and organochlorine pesticides in soil testing is recommended in accordance with the Department of Toxic Substances Control (DTSC) "Interim Guidance Evaluation of School Sites With Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphyenyls from Electrical Transformers revised June 9, 2006."

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- Partner did not identify any historical recognized environmental conditions during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- Due to the age of the subject property building/buildings, there is a potential that asbestos-containing material (ACM) and/or lead-based paint (LBP) are present. Overall, suspect ACMs and painted surfaces were observed in good condition and do not appear to pose a health and safety concern to the occupants of the subject property at this time. A few areas of the building materials, including ceiling tiles, however, were noted during the assessment to be broken, chipped, and/or have signs of water damage. Should these materials be replaced, the identified suspect ACMs would need to be sampled to confirm the presence or absence of asbestos prior to any renovation or demolition activities to prevent potential exposure to workers and/or building occupants.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 1319 East 41st Street in the City of Los Angeles, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed evidence of recognized environmental conditions and/or environmental issues in connection with the subject property. Based on the conclusions of this assessment, Partner recommends the following:

- A Preliminary Environmental Assessment (PEA) Equivalent is recommended to evaluate and investigate the identified RECs, and determine whether soil and/or groundwater has been impacted due to the historical use of the subject property.

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1.0 INTRODUCTION

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in general conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located at 1319 East 41st Street in the City of Los Angeles, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

1.1 Purpose

The purpose of this ESA is to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E1527-13) affecting the subject property that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to Hazardous Substances or Petroleum Products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property; and 5) may require specific actions to be performed with regard to such conditions and circumstances. The information contained in the ESA Report will be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

This ESA was performed to permit the *User* to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"). ASTM Standard E1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

1.2 Scope of Work

The scope of work for this ESA is in general accordance with the requirements of ASTM Standard E1527-13. This assessment included: 1) a property and adjacent site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments in order to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property. Additionally, Partner researched information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-13, AULs are the legal or physical restrictions or limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential

exposure to hazardous substances or petroleum products in the soil or groundwater on the subject property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or groundwater on the property.

If requested by Client, this report may also include the identification, discussion of, and/or limited sampling of asbestos-containing materials (ACMs), lead-based paint (LBP), mold, and/or radon.

1.3 Limitations

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No other warranties are implied or expressed.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Further, this report does not intend to address all of the safety concerns, if any, associated with the subject property.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

1.4 User Reliance

LAUSD OEHS engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of LAUSD OEHS. Either verbally or in

writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, Client and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such Use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted. Additional legal penalties may apply.

This report has been completed under specific Terms and Conditions relating to scope, relying parties, limitations of liability, indemnification, dispute resolution, and other factors relevant to any reliance on this report. Any parties relying on this report do so having accepted the Terms and Conditions for which this report was completed. A copy of Partner's standard Terms and Conditions can be found at http://www.partneresi.com/terms-and-conditions.php.

1.5 Limiting Conditions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM E1527-13.

Specific limitations and exceptions to this ESA are more specifically set forth below:

- Partner requested information relative to deed restrictions and environmental liens, and a title search. This information was not provided at the time of the assessment.
- Partner observed approximately 25% of all classroom areas and all common, mechanical, and storage areas. Based on the size and nature of use of the unobserved units (classrooms and offices), this limited method of survey is not expected to alter the overall findings of this assessment.

Due to time constraints associated with this report, the Client has requested the report despite the above-listed limitations.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The subject property at 1319 East 41st Street in Los Angeles, California is located on the north side of East 41st Street, south of East 33rd Street, to the west of Compton Avenue and east of Hooper Avenue. According to the Los Angeles County Assessor, site contact, and building records, the subject property is legally described as the "Lloyd and George Stephenson Tracts, MB6-120, M.R. 53-31" and ownership has been reportedly vested in LAUSD since 1915.

Please refer to Figure 1: Site Location Map, Figure 2: Site Plan, Figure 3: Topographic Map, and Appendix A: Site Photographs for the location and site characteristics of the subject property.

2.2 Current Property Use

The subject property is currently occupied by a single campus used by three schools: Thomas Jefferson High School, which has occupied the site since 1915/1916; and Student Empowerment Academy Charter and Nava College and Preparatory Academy, which have occupied the property since 2006 and 2014, respectively. The on-site building include a main academic and office building, auditorium, science building, cafeteria, two gymnasiums, a boiler house, arts and shops buildings, and former industrial arts buildings, as well as modular classroom buildings, storage sheds, greenhouse, covered structures, and ancillary structures (athletic, ROTC, parent's center, etc.). The northwest quarter of the subject property is developed with athletic tracks and fields and associated structures, tennis courts, and a garden area. The remainder of the property is developed with lawns and paved courtyards, assembly areas, and walkways with associated landscaping. The on-site buildings are further described as follows:

Structure	Number of Stories	Construction Type	Proposed for Renovation or Removal	Approximate Construction Date
Administration	Two	Masonry	Renovation	1937
Academic	Two	Masonry	Renovation	1937
Auditorium	One/Mezzanine	Masonry	Renovation	1935
Cafeteria	One	Masonry	Renovation	1937
Boiler House	One	Masonry	Removal	1916
Girls Gymnasium	One	Masonry	Removal	
Boys Gymnasium	One	Masonry	Removal	
Arts	One	Masonry/ Wood Framed	Removal	1920-1930s
Industrial Arts	One	Masonry	Removal	1960s
Modular Classrooms	One	Masonry/ Wood Framed	Removal	1960s

Science	Two over parking	Masonry	No work proposed	1970
Bleachers			No work proposed	
Storage – Industrial	One	Masonry	Removal	1960s
Storage – Waste	One	Masonry	No work proposed	1960s
ROTC	One	Wood Framed	No work proposed	
Charter School/ Wellness Center	One	Wood Framed	No work proposed	2010

Additionally, there are numerous smaller sheds, storage buildings and small structures used for offices, shelters, or counseling and school sales

The subject property is designated for public use development by the City of Los Angeles.

The subject property was identified as a Resource Conservation Recovery Act (RCRA)-Small Quantity Generator (SQG), HAZNET, FINDS, ECHO, and California Hazardous Material Incident Reporting System (CHMIRS) site in the regulatory database report, as further discussed in Section 4.2.

2.3 Current Use of Adjacent Properties

The subject property is located within a primarily residential area of Los Angeles County. During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

Immediately Surrounding Properties

North: Residences to the north and to the south of East 33rd Street (1314-1398 East 33rd Street and 3307-3313 Compton Avenue) and East 33rd Street beyond which is a truck storage yard Daylight Transport LLC (3200 Hooper Avenue)

South: East 41st Street beyond which are residences (1302 and 1326 41st), La Favorita Market (1320 41st), and Morning Star Baptist Church (1334 East 41st)

East: Compton Avenue, beyond which are Neighborhood Meat Market (3220 Compton Avenue) and Don Lee Farms and ProPortion Foods (4010-4020 Compton Avenue); and residences (3310 Compton Avenue, 1500 East 33rd Street, and 1502-1503 Martin Luther King Jr. Blvd.)

West: Hooper Avenue beyond which are Jae's Market (3323 Hooper Avenue) and residences (3313, 3409, 3415, 3425, 3503, 3509, 3517, 4019 4051 Hooper Avenue, 1285-86 E Martin Luther King Jr Blvd, 1290-91 E 40th Pl., 1292-93 E 41st St, 1272 E 34th

An adjacent property to the south is identified as an EDR US Historical Auto site, and the properties to the east and to the north are identified as Statewide Environmental Evaluation and Planning System (SWEEPS) Underground Storage Tank (UST) and California Facility Inventory Database UST (CA FID UST) sites in the regulatory database report of Section 4.2.

2.4 Physical Setting Sources

2.4.1 Topography

The United States Geological Survey (USGS) *Hollywood and Los Angeles, California* Quadrangles 7.5-minute series topographic maps were reviewed for this ESA. According to the contour lines on the

topographic map, the subject property is located at approximately 205 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping gently toward the southwest with a topographic gradient of approximately 20-feet per mile. The subject property is depicted on the 2012 map as a school.

A copy of the most recent topographic map is included as Figure 3 of this report.

2.4.2 Hydrology

According to topographic map interpretation, the direction of groundwater in the vicinity of the subject property is inferred to flow toward the southwest. The nearest surface water in the vicinity of the subject property is the Los Angeles River located approximately 1.5 mile east of the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the subject property during this assessment.

According to available information, a public water system operated by the Los Angeles Department of Water and Power (LADWP) serves the subject property vicinity. According to a representative of the LADWP, shallow groundwater beneath the subject property is not utilized for domestic purposes. The sources of public water for the City of Los Angeles are surface water from the State Water Project, obtained primarily from sources in Northern California and from the Colorado River.

According to information obtained from online research and the City of Los Angeles, depth to the high water table is anticipated to be greater than 100 feet below ground surface (bgs).

2.4.3 Geology/Soils

The subject property is situated within the northern portion of the Downey Plain in the Los Angeles Basin in the Transverse Ranges physiographic province of the State of California. The Downey Plain consists of recent alluvial deposits to the southwest of the Los Angeles River that overlie an older weathered surface. Soils in the site vicinity are generally described as Quaternary age sediments, primarily younger floodplain and stream deposits of recent alluvium and Pleistocene-age Lakewood Formation. The sediments are generally loose to dense sands, silty sands, and silts with some clayey zones. The uppermost geologic formation underlying the soils at the subject property is the Pleistocene Age Beaumont formation. The Beaumont formation comprises the underlying stratigraphy and consists mostly of clay, silt and sand deposited in stream channel, point bar, and fluvial environments. The thickness of the Beaumont formation is estimated to be over 200 feet. The Beaumont formation is underlain by the Lissie and Willis formations, which are estimated to be a total of approximately 300 feet thick.

2.4.4 Flood Zone Information

Partner performed a review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency. According to Community Panel Numbers 06037C1620F and 06037C1638F, dated September 26, 2008, the subject property appears to be located in Zone X, an area located outside of the 100-year and 500-year flood plains.

2.4.5 Nearest Location of Ecological Interest

The subject property is developed as a public and charter High School and is completely developed with buildings, landscaping, pavement and a garden area. No natural vegetation or native wildlife or wildlife habitat is supported on the subject property. Ecologically sensitive species are not reported within a one-mile radius of the subject property.

2.4.6 Nearest Special Study (Alquist-Priolo Act) Zone

The subject property is not located within a special fault-rupture hazard zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act of 1994. Review of the Alquist-Priolo Special Studies Zone Maps, depicts no Alquist-Priolo Special Studies zones within the Los Angeles, California USGS Quadrangle. The nearest Special Study Zone is the Puente Hills Blind Thrust located over one-mile from the subject property.

2.4.7 Potential for Methane and Hydrogen Sulfide

The subject property is not located within a methane zone or methane buffer zone, or in an area reported with landfills, oil wells, or oil fields. It is unlikely that elevated concentrations of methane or hydrogen sulfide are present at the subject property.

2.4.8 Potential for Liquefaction and Landslides

Based on our review of City of Los Angeles Department of City Planning documentation, the subject property is not located within a liquefaction or Landslide Zone.

2.4.9 Groundwater Wells within a One-Mile Radius of the Site

Based on review of LACDPW Well Information and EDR Report, no Federal USGS or Federal Water Supply groundwater wells, or State database groundwater wells were identified within one mile of the subject property. Based on review of LACDPW well records, the following wells were identified on the Los Angeles County Department of Public Works Groundwater Wells website:

Well Number	Approximate Distance from Subject Property	Ground Surface Elevation (in feet)	Ground Surface to Water Surface (in feet)	Water Surface Elevation (in feet)	Date Measured
1460X	0.8-mile south/southeast	190.5	195	-4.5	February 3, 2005
2778	1.4-miles northeast	222.70	245.10	-22.4	April 14, 2016

3.0 HISTORICAL INFORMATION

Partner obtained historical use information about the subject property from a variety of sources. A chronological listing of the historical data found is summarized in the table below:

Historical Use Information		
Period/Date	**Source**	**Description/Use**
1850	Historical Records	Undeveloped
1880s-1912	Historical Maps and Records	Agricultural
1915	Historical Maps and Records, Interviews	Stadium
1916-Present	Aerial Photographs, Building Records, City Directories, Interviews, On-site Observations, Sanborn Maps, Topographic Maps	Jefferson High School

Tenants on the subject property include Andres Stephenson for agriculture (1880s-1912), East Stadium/Old Coliseum (late 1800s-1915), and Jefferson High School (1916-Present). Potential environmental concerns were identified in association with the former use of the subject property for agriculture and industrial arts shops, including auto repair and printing.

The subject property was reportedly used for agricultural purposes from approximately 1870 until development of the subject property in approximately 1915/1916. Agricultural operations continued on the northern portion of the subject property through the 1950s and organochlorine pesticides may have been used in the current garden area on the north end of the subject property.

No historical use of the site by the Federal Government was identified based on the historical sources reviewed.

No historical landmarks were identified on-site, however, buildings on the site dating to the 1930s are recognized as historical by the State of California.

No records of prior assessment were identified by Partner, or provided or reported by the LAUSD.

3.1 Aerial Photograph Review

Partner obtained available aerial photographs of the subject property and surrounding area from Environmental Data Resources (EDR). The following observations were noted to be visible on the subject property and adjacent properties during the aerial photograph review:

Date: 1923	***Scale: 1"=500'***
Subject Property:	Developed with five large buildings and one small building on the south end, in the configurations of the original administration, classroom, science and arts buildings, gymnasium, auto repair shops, and boiler house as depicted on Sanborn and Topographic Maps from the 1920s. An athletic track is on the northwest portion with residences beyond and the northeast portion of the subject property appears used for agriculture with eight small buildings and sheds.
North:	Appears developed with small residential structures and East 33rd Street
South:	Appears developed with a gasoline service station on the northwest corner of the block and small dwellings and/or shops across East 41st Street
East:	Developed with small dwellings, a cluster of small apparent commercial structures

Date: 1923		***Scale: 1"=500'***
	and vacant or agricultural land south of Martin Luther King Blvd., across Compton Avenue	
West:	Appears developed with small residential structures across Hooper Avenue	

Date: 1928		***Scale: 1"=500'***
Subject Property:	Additional buildings have been added to the north of the administration building in in the locations of the original gymnasiums and the industrial arts, printing, and auto repair buildings located to the north of the science and arts building along the east side of the subject property . No other significant changes visible	
North:	No significant changes visible	
South:	No significant changes visible	
East:	The vacant or agricultural area observed on the 1923 photograph across Compton Avenue is developed with a fenced area and a few unidentifiable structures in addition to dwellings, possibly recreational fields	
West:	No significant changes visible	

Date: 1938 and 1947		***Scale: 1"=500'***
Subject Property:	Developed with the administration, classroom, auditorium, boiler house and cafeteria buildings observed during the site visit, as well as two buildings identified as historical gymnasiums and the industrial arts building. Approximately 10 smaller structures including modular classrooms and storage sheds are depicted on the 1947 photograph and additional small structures and classrooms have been added to the west and northeast portions of the site by 1947. The northern portion of the subject property appears developed with agricultural and athletic fields and a track	
North:	No significant changes visible	
South:	Developed with a few larger buildings across East 41st Street	
East:	No significant changes visible	
West:	No significant changes visible	

Date: 1952		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	No significant changes visible	
South:	No significant changes visible	
East:	Developed with approximately 50 smaller structures in a rough grid pattern and an apparent commercial facility south of Martin Luther King Blvd and with dwellings on to the north.	
West:	No significant changes visible	

Date: 1967		***Scale: 1"=500'***
Subject Property:	Developed with the buildings observed during the site visit, with the exception of the current Science Building. The northeastern corner of the site is occupied by modular classroom buildings and the industrial shop and spray booth building observed during the site visit and little evidence of agricultural activities is visible. The area of the former auto and shop building is now occupied by four modular classroom buildings, as observed during the site visit.	

Date:	***1967***	***Scale:***	***1"=500'***

North: No significant changes visible
South: No significant changes visible
East: Developed with large commercial buildings and parking, storage and loading areas as well as dwellings across Compton Avenue
West: No significant changes visible

Date:	***1972, 1977 and 1985***	***Scale:***	***1"=500'***

Subject Property: Developed with the current Science Building in addition to the structures previously observed. The subject property configuration appears essentially the same as observed during the site visit except one additional building appears to the north of the girl's gymnasium building and the areas to the east of the athletic track are unpaved.
North: No significant changes visible except apparent commercial trucking and distribution facilities are visible within two blocks to the north
South: No significant changes visible
East: No significant changes visible
West: No significant changes visible

Date:	***1989 and 1994***	***Scale:***	***1"=500'***

Subject Property: The lot to the northeast, current location of the ROTC Center and Wellness Center (not included as part of this assessment) appears to have been cleared and graded. No other significant changes are visible.
North: Appears to be developed with a truck yard to the north of East 33rd Street on the west end of the block
South: The western end of the block to the south across East 33rd Street appears to have been cleared
East: Developed with the cold storage and distribution facilities observed during the site visit across Compton Avenue
West: No significant changes visible

Date:	***1994***	***Scale:***	***1"=500'***

Subject Property: There areas east of the athletic track appear to be redeveloped for athletic use and the building to the north of the girl's gymnasium has been removed. No other significant changes are visible. The northeast corner is developed with one of the ancillary classroom buildings and the remaining portion of the lot remains vacant
North: No significant changes visible except to the block to the north across East 33rd Street is nearly entirely occupied by trucking facilities; and still with residences fronting on East 33rd Street.
South: Developed with the residential apartment building on the west end of the block as observed during the site visit across East 33rd Street
East: No significant changes visible
West: No significant changes visible

Date: 2002 and 2005		***Scale: 1"=500'***
Subject Property:	No significant changes visible	
North:	No significant changes visible	
South:	No significant changes visible	
East:	No significant changes visible	
West:	No significant changes visible	

Date: 2009		***Scale: 1"=500'***
Subject Property:	No significant changes visible except the garden area is visible in approximately its current location on the north end of the property and the Wellness Center Building is present on the northwest corner.	
North:	No significant changes visible	
South:	No significant changes visible	
East:	No significant changes visible	
West:	No significant changes visible	
	No significant changes visible	

Copies of select aerial photographs are included in Appendix B of this report.

3.2 Fire Insurance Maps

Partner reviewed the collection of Sanborn Fire insurance maps from EDR. The following observations were noted to be depicted on the subject property and adjacent properties during the fire insurance map review:

Date: 1922	
Subject Property:	Developed with Jefferson High School. Three buildings, in roughly the locations, (but slightly different configurations) of the current auditorium and academic and main office buildings appear on the south end of the subject property. On the south is an administration/classroom building, a classroom building on the west, and on the east is a science and arts building depicted with printing and woodworking departments. A potential septic pit or sump is depicted to 8 feet on the west side of the south end of the science and arts building. To the northwest of the arts building is the boiler house building with two steam boilers and a potential incinerator depicted in roughly the configuration observed during the site visit. North along Compton Avenue is a gymnasium and a smaller building identified as a shop building with auto repairing on the north and a machine shop on the south end. A potential septic pit or sump is depicted to 8 feet on the southwest corner of the auto repair shop building (Jefferson Shops). The labels for the site indicates that lights are electric and heat to the school is provided by steam. The northwestern portion of the site is depicted with bleachers, as observed during the site visit.
North:	Not depicted
South:	Developed with a gas and oil station (1302-1310 E 38th St) to the southwest on the corner of East 38th Street (now 41st Street), a residence (1326 E 38th St), and a church and school (1338-1340 E 38th St).
East:	Not depicted across Compton Avenue except to show that Martin Luther King Blvd is identified as East Jefferson Street.

Date: 1922

West: Developed with residences across Hooper Avenue

Date: 1950 and 1953

Subject Property: Depicted with the administration building (main offices) on the south, academic building on the east, auditorium building on the west and cafeteria building in the center of the three school buildings (labeled as constructed in 1935 and 1936), as well as the boiler building observed on the earlier map. Fourteen (14) apparent modular classroom buildings are depicted along the west side, near the current locations of the Boy's Gymnasium and the Science Building. A Boy's and Girl's Gymnasium buildings (labeled as constructed in 1921 and 1925) are depicted north of the modular buildings and the boiler building and a small structure identified as a "shelter" is depicted east of the Girl's Gymnasium along with the current Arts Building. The Arts Building is labeled as Mechanical arts (constructed in 1919 and contains an electrical shop, planning shop, print shop, and the auto repair building and machine shop at the north end, labeled as constructed in 1922. Additional small classroom and storage buildings are depicted on the north end of the subject property. A paint storage area or structure is depicted to the north/northeast of the boiler house on the 1953 map and an additional classroom is depicted in the current location of the band building on the east

North: Not depicted

South: Depicted with the gasoline service station and church observed on the earlier map and with shops, restaurants and dwellings across East 41st Street.

East: Depicted with a Federal Corrections Facility across Compton Avenue with numerous small housing units and a central laundry (Corregidor Federal Housing) and with a few residences and a Pie Baking facility on the southeast

West: No significant changes depicted

Date: 1954, 1955, 1958

Subject Property: Developed with the current Boy's Gymnasium Building (labeled as an exercise room constructed in 1954) in addition to buildings observed on the earlier maps. The former boy's gymnasium building has been removed. A small classroom building also has been added to the east side, adjacent to the band room. No other significant changes are depicted.

North: Not depicted

South: No significant changes depicted

East: Depicted with a gas and oil storage and auto repair (4098 Compton/ 1351 41st Street)) across Compton Avenue on the south end of the block and with vacant land with a few structures and dwellings to the north

West: Depicted with a cold storage facility at 4020-40 Compton Avenue

Date: 1960 and 1962

Subject Property: The shop building appears to have been reconfigured or removed and the print shop and auto repair shops appear further north, in the current location of the industrial arts buildings on the northeast corner of the site.

Date:	*1954, 1955, 1958*
North:	Not depicted
South:	No significant changes depicted
East:	No significant changes depicted
West:	No significant changes depicted

Date:	*1960, 1962, 1963, 1966, 1968, and 1970*
Subject Property:	The modular classroom buildings observed on the northeast portion of the site are now depicted, as well as paint and miscellaneous storage enclosures (location of the fuel storage enclosures observed during the site visit)
North:	Not depicted
South:	No significant changes depicted
East:	No significant changes depicted
West:	No significant changes depicted

Copies of reviewed Sanborn Maps are included in Appendix B of this report.

3.3 City Directories

Partner reviewed historical city directories obtained from an in-house collection and from the Sherman Library on May 23, 2016 for past names and businesses that were listed for the subject property and adjacent properties. The city directories indicate that the subject property has been occupied by Jefferson High School since at least 1949 and the surrounding properties along East 33rd Street, East 41st Street, Compton and Hooper Avenues have been developed with residences since 1949, with the following exceptions presented in the following table:

City Directory Search for 1319 East 41st Street (Subject Property)	
Year(s)	**Occupant Listed**
1949	Jefferson High School
1960	Jefferson High School/ Adult Evening School
1966	Jefferson High School/ Jefferson Adult School
1971	Jefferson High School/ Jefferson Adult School/ Jefferson Community School/ RJ Daum Construction
1976	Jefferson High School/ Forty Second Street High School
1983	Jefferson High School/ Forty Second Street High School
1988	Jefferson High School/ Forty Second Street High School
1993	Jefferson High School
1998	Jefferson High School

According to the city directory review, the subject property has been occupied by Jefferson High School since at least 1949. Based on the city directory review, no environmentally sensitive listings were identified for the subject property address.

City Directory Search for Adjacent Properties	
Year(s)	**Occupant Listed**
1960	Loyalty Market (3222 Compton), United Frozen Foods (4020 Compton); Residential (1359 33rd)/ Dance Studio (1316 41st), Harris Café 19(1318 41st), Sportman's Cleaners (1320 41st)

City Directory Search for Adjacent Properties	
Year(s)	**Occupant Listed**
	Anns Beauty Nook/ Nelson's Barber Shop (13201/2-1322 41st); Sam's Market (3323 Hooper); Cosmopolitan Christian Church (3311 Hooper)
1966	No Listing (1314 41st); Harris Café (1318 41st); Beauty Salon/Barber Sportsman Cleaners (1320 41st), Beauty Nook (1320 ½ 41st), Barber (1322 41st) Star Baptist Church (1334 41st St), Curtis Sheet Metal (1350 41st St); Loyalty Market (3222 Compton), United Frozen Foods (4020 Compton); American Transportation (1359 33rd); Sam's Market 3323 Hooper); No Listing (1351 41st)
1971	Magnificent Natural Products (1314 41st); Beauty Salon/Barber Shop (1320-22 41st); Proficient Inc. Photography (1316 41st); Morning Star Baptist Church (1334 41st St), Cooling Connection (1350 41st St); Loyalty Market (3222 Compton), United Frozen Foods (4020 Compton); American Transportation (1359 33rd); Sam's Market 3323 Hooper); No Listing (1351 41st)
1976	Ethno Distribution Services/ Coban Stanhope Products/ Fantastix Products (1314 41st); Barber Shop (1322 41st); Pip Printing (1316 41st); Morning Star Baptist Church (1334 41st St), Cooling Connection (1350 41st St); Loyalty Market (3222 Compton), XXXX (4020 Compton), Complete Trucking Service (1359 33rd); Sam's Market 3323 Hooper); Kings Tire Service/Martins Garage (1351 41st)
1983	Mapleleaf Tours/Barber Shop (1322 41st); Pip Printing (1316 41st); Morning Star Baptist Church (1334 41st St), Cooling Connection (1350 41st St); Neighborhood Market (3222 Compton), Jessie Lords Pies/ Original House Pies/ West Coast Foods Division/Poultry (4020 Compton), Bay Area LA Express/Complete Trucking (1359 33rd); MJ Market 3323 Hooper); Martins Garage (1351 41st)
1988	Gizmo Mini Mart (1322 41st); Morning Star Baptist Church (1334 41st St), Cooling Connection (1350 41st St); Neighborhood Market (3222 Compton), Near Cal Corp/ West Coast Foods/Poultry (4020 Compton), Daylight Transport (3200 Hooper/ 1359 33rd); MS Market 3323 Hooper)
1993	Emmanuel Church of God (1399 41st St), La Favorita Market (1320 41st St); Morning Star Baptist Church (1334 41st St), Cooling Connection (1350 41st St); Neighborhood Market (3222 Compton), Sunset Shrimp / West Coast Foods/Poultry (4020 Compton), Daylight Transport (3200 Hooper)
1998	Emmanuel Church of God (1399 41st St), La Favorita Market (1320 41st St); Morning Star Baptist Church (1334 41st St), Cooling Connection (1350 41st St); Neighborhood Market (3222 Compton), Sunset Shrimp / West Coast Foods/Poultry (4020 Compton),

* XXXX= A phone number is present but is not registered to a tenant or is disconnected.

According to the city directory review, the adjacent properties have been occupied by residences and a truck transport facility to the north since the 1960s; cold storage and food distribution facilities and historic auto repair to the west/southwest; a gasoline service station and a potential cleaners to the south in the 1960s and 1970s; and with markets and churches to the south, east and west.

3.4 Historical Topographic Maps

Partner reviewed historical topographic maps obtained from NETR Online and the USGS on May 17, 2016. The following depictions were noted for the subject property and adjacent properties during the topographic map review:

Date:	***1896, 1902, 1906, 1910, and 1913***
Subject Property:	Depicted with two buildings near the north end of the property. 33rd Street is not depicted in the site vicinity
North:	Undeveloped with railroad tracks depicted further to the north
South:	Depicted with a small structure to the southwest across East 41st Street
East:	Depicted as undeveloped across Compton Avenue with a few structures further east
West:	Depicted as undeveloped. Hoover Avenue is not present in the site vicinity

Date:	***1921 and 1932***
Subject Property:	Depicted with two buildings on the south end of the property fronting on Compton and Hoover Avenues, two structures on the northeast portion fronting on Compton, and multiple small structures along the northwest portion of the site, fronting on East 33rd
North:	Depicted with small structures fronting on East 33rd Street
South:	Depicted with small structures fronting on East 41st Street near the east end of the block
East:	Depicted with small structures fronting on Compton Avenue
West:	Depicted with small structures fronting on Hooper Avenue

Date:	***1955/1956 and 1963***
Subject Property:	Depicted with the Jefferson High School campus buildings observed on earlier photographs except nine small buildings are depicted in the current locations of the Boy's Gymnasium building and the Science Building and several small buildings are depicted along the north end of the subject property.
North:	Depicted with a church and other areas are shaded to depict developed land across East 33rd Street
South:	Depicted with a church and other areas are shaded to depict developed land across East 41st Street
East:	Depicted as developed land with Snyder Recreation Center depicted in the center of the block to the east across Compton Avenue
West:	Depicted as developed land across East 41st Street

Date:	***1968***
Subject Property:	Depicted with the Jefferson High School campus buildings observed on earlier photographs except four small buildings are depicted in the current location of the Science Building and several small buildings are depicted along the north end of the subject property.
North:	Depicted with a church and other areas are shaded to depict developed land across East 33rd Street
South:	Depicted with a church and other areas are shaded to depict developed land across East 41st Street
East:	Depicted as developed land with Snyder Recreation Center depicted in the center of

Date: 1968	
	the block to the east across Compton Avenue
West:	Depicted as developed land across East 41st Street

Date: 1975, 1982, 1987, and 1994	
Subject Property:	Depicted with a new building on the west in the size and configuration of the current Boy's Gymnasium in addition to the other Jefferson High School campus buildings. The Auditorium building appears to have been reconfigured
North:	Depicted with a church and other areas are shaded to depict developed land across East 33rd Street except for the west end of the block which is depicted as vacant with one small feature and railroad tracks near the end of the block
South:	Depicted with a church and other areas are shaded to depict developed land across East 41st Street
East:	Depicted as developed land with Snyder Recreation Center depicted in the center of the block to the east across Compton Avenue
West:	Depicted as developed land across East 41st Street

Date: 2012	
Subject Property:	Depicted as developed with a school
North:	Depicted as developed land with no landmark features across East 33rd Street
South:	Depicted as developed land with no landmark features across East 41st Street
East:	Depicted as developed land with no landmark features across Hooper Avenue
West:	Depicted as developed land with no landmark features across Compton Avenue

Due to copyright restrictions, copies of reviewed historic topographic maps are not included in this report.

3.5 Other Historical Sources

Partner reviewed census maps, street maps, railway route maps and other historical documents dating from 1853 to 1912 online from the Los Angeles City Library, Los Angeles Historical Society, and from the Los Angeles Department of Water and Power Historical Archives. The earliest record identified is a summary of notable early Los Angeles residents, which indicated that Andres Briswalter purchased the 253 acres to the southeast of Washington and San Pedro Streets ((including the subject property)) in 1857 and used the land for farming of crops and citrus groves. The land was subdivided sometime around 1900 when the area was incorporated into the City of Los Angeles. The maps reviewed did not depict any structures on the subject property until 1902, when two small structures are depicted on the north end, as described in the topographic map summary above in Section 3.4.

4.0 REGULATORY RECORDS REVIEW

4.1 Regulatory Agencies

4.1.1 Health Department

Regulatory Agency Data	
Name of Agency:	Los Angeles County Public Health Investigation Unit (LACPHI)
Point of Contact:	Email
Agency Address:	5555 Ferguson Drive, Suite 120-04, Commerce, California
Agency Phone Number:	(323) 890-7806
Date of Contact:	May 11, 2016
Method of Communication:	Email/ In Person
Summary of Communication:	Records reviewed at LACPHI included Los Angeles Fire Department Inspection Reports from 1999 and 2005 and an unspecified report dated 2013. The LAFD Inspection Report dated December 16, 1999 indicated that the property had been occupied by Jefferson High School since 1916. Hazardous wastes reported at the site consisted of waste oil, paint and science laboratory wastes. Science laboratory wastes were reported to be primarily neutralized and discharged to the sewer, with other materials over-packed for appropriate removal and disposal by the LAUSD Environmental Division. The stored materials were observed to be stored in quart and gallon-sized containers within plastic totes and no concerns were identified with the stored materials or wastes. The LAFD and LACPHI records indicated that records of the generated and disposed hazardous materials were maintained offsite by LAUSD OEHS. The paints used on-site were reported to be water based, latex coatings, and waste thinner and paint materials were also report to be collected and disposed offsite by LAUSD OEHS. The auto repair shop was temporarily closed in 1999 due to lack of enrollment, and wastes previously generated by the shops consisted of waste oil and oil filters, and waste coolant which was collected in 55-gallon drums for offsite disposal by LAUSD OEHS. Metal and wood shops were also reported but no hazardous wastes were reported as generated by these activities. Other storage areas, including the two enclosures used for fuel observed by Partner and the former auto shop waste enclosure on the east side of the property, included two 55-gallon drums of gasoline used for on-site equipment such as lawnmowers. Ten 5-gallon and 20 1-gallon containers of latex water based paints, two 1-gallon containers of "stock paint thinner" (observed to be acetone at the time of the recent site inspection), one 55-gallon empty drum near the auto shop and five 291 cubic foot helium cylinders. The inspection report noted that LAUSD maintains training records and disposal manifests offsite at the Environmental Headquarters Office.

Regulatory Agency Data	
	The July 7, 2005 Inspection Report indicated that waste streams were produced from the print shop, automotive shop, plant maintenance shop, and from the science department. Minor quantities (less than 30 gallons) of waste oil and waste latex paint and thinner were reportedly generated from maintenance activities. The auto shop was reportedly in operation in 2005 and reportedly training for minor engine repairs such as oil changes and radiator flushes was conducted. Two 55-gallon drums used for waste oil collection, one 55-gallon drums for waste oil filters, one 55-gallon drum for waste coolant and one Safety Kleen owned parts cleaner with a 30-gallon solvent drum were reported on-site, as well as waste wipe rags. The print shop reportedly used a printing press and some print press set-up activities, including plate washing were still performed on-site. In general printing operations were limited to digital processing from this department. One 5-gallon container of blanket wash was observed in the print shop in 2005, and also observed by Partner in 2016 – reportedly rags are used to wipe off the plates with the solvent, and the rags are then collected for offsite disposal by OEHS. The science department wastes were no longer being produced by 2005, as no significant volumes of hazardous materials were used in the classrooms and laboratories. The report indicated that toxic and hazardous chemicals had been removed from the science laboratories and maintenance offices by the LAUSD Chemical Safety Department although the date was not provided. Notices of Violation (NOVs) were issued in 2005 for failure to maintain appropriate labels on waste containers and failure to keep storage containers closed when not in use. The facility reported that waste oil and filters were taken offsite to a local Pep Boys Auto Parts Store for disposal/recycling and LAFD instructed the facility to cease this activity and to property package and manifest the materials through LAUSD OEHS or a qualified hauler. The NOVs were noted as corrected as of August 14, 2005. In 2013, an NOV was issued for failure to submit disposal manifests for waste paint, waste oil and filters, waste rags and absorbent. The NOV was corrected and the appropriate disposal manifests were provided. No outstanding issues or violations were found in LACPHI files.

4.1.2 Fire Department

Regulatory Agency Data	
Name of Agency:	Los Angeles Fire Department (LAFD) Hazardous Materials Division and Underground Storage Tanks Division (HazMat and UGT)
Point of Contact:	Emailed Request/Katie Rosas

Regulatory Agency Data	
Agency Address:	221 North Figueroa Street, Los Angeles, California
Agency Phone Number:	(213) 482-7115
Date of Contact:	May 20, 2016
Method of Communication:	Emailed Request
Summary of Communication:	LAFD reported no USTs, ASTs, or AULS on the subject property. Hazardous materials reported in use at the site included paint and thinner, oil, waste oil and oil filters, waste coolant, and waste science laboratory chemicals and the available inspection reports are discussed above in Section 4.1.1.

4.1.3 Air Pollution Control Agency

Regulatory Agency Data	
Name of Agency:	Air Quality Management District (AQMD)
Point of Contact:	Online
Agency Address:	21865 Copley Drive, Diamond Bar, California
Agency Phone Number:	(909) 396-2000
Date of Contact:	May 23, 2016
Method of Communication:	Online Database http://www3.aqmd.gov/webappl/fim/prog/search.aspx
Summary of Communication:	Active Permits to Operate (PTO) natural gas boilers were issued in 1989 to Jefferson Senior High School/LAUSD. An inactive permit for operation of a spray booth using paints and solvents was issued to Jefferson High School in 1962. An inactive PTO was issued for operation of an on-site boiler in 1965 and indicated that the boiler was fueled by fuel oil of PS-200 or lighter grade. The PTO issued in 1989 indicates that the boiler is fueled by natural gas. An inactive PTO was issued in 1964 for operation of a Spray King Automotive filter type spray booth. No NOV, or Notices to Comply (NTC) or the presence of AULs, dry cleaning machines, or USTs were on file for the subject property with the AQMD.

4.1.4 Regional Water Quality Agency

Regulatory Agency Data	
Name of Agency:	Regional Water Quality Control Board (RWQCB)
Point of Contact:	Online
Agency Address:	1001 I Street, Sacramento, California
Agency Phone Number:	(213) 576-6636
Date of Contact:	May 5, 2016
Method of Communication:	Online Database http://geotracker.waterboards.ca.gov/
Summary of Communication:	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on

Regulatory Agency Data	
	file with the RWQCB.

4.1.5 Department of Toxic Substances Control

Regulatory Agency Data	
Name of Agency:	California Department of Toxic Substances Control (DTSC)
Point of Contact:	EnviroStor and Hazardous Waste Tracking System (HWTS) Database
Agency Address:	9211 Oakdale Avenue, Chatsworth, California
Agency Phone Number:	(818) 717-6500
Date of Contact:	May 5, 2016
Method of Communication:	Online Database http://www.envirostor.dtsc.ca.gov/ and http://hwts.dtsc.ca.gov/
Summary of Communication:	No records regarding hazardous substance releases, or the presence of USTs and AULs on the subject property were on file with the DTSC, based on review of the EnviroStor database. According to records reviewed on the HWTS database, the subject property, Jefferson High School at 1931 East 41st Street, has generated waste oil, asbestos, unreported wastes and waste paint and thinners from 1993 to 2013, and no violations are reported. The facility is listed as a school. Please see Section 4.2.2 for details regarding the hazardous wastes generated from the facility.

4.1.6 Building Department

Regulatory Agency Data	
Name of Agency:	Los Angeles Department of Building and Safety (LADBS)
Point of Contact:	Public Counter/Online
Agency Address:	201 North Figueroa Street, 1st Floor, Los Angeles, California
Agency Phone Number:	(213) 482-6862
Date of Contact:	May 4, 2016
Method of Communication:	Online
Summary of Communication:	Records were available for review indicating original school construction in 1915-1916 (permits not found but notations indicate date of original construction), demolition in 1933 through 1937 and reconstruction in 1935 and 1937, with additions and renovations in the 1950s and 1960s. The property address is reported as 1319 East 38th Street prior to 1937 and as 1319 East 41st Street after reconstruction of the school in 1935 through 1937. Pertinent findings are further discussed in the following table.

Building Records Reviewed for 1319 East 41st and 1319 East 38th Street (Subject Property)		
Year(s)	**Owner/Applicant**	**Description**
1923	Board of Education	Permit to construct a new 80x60 foot brick assembly hall on an existing 18-acre school property
1924	Los Angeles City High School District	Permit to construct a new school gymnasium building at an existing High School

Regulatory Agency Data		
1929	LA Board of Education	Replace old wood floor due to termite damage Permit to construct a new Garden House and Pergola at an existing high school
1930	Board of Education	Permit to construct a new "glass house" – likely a greenhouse at an existing high school
1933	Los Angeles City School District	Permit to rebuild main chimney to the top of firewall at the boiler building due to earthquake damage Foundation Investigation Report (summary only)
1934	Los Angeles City School District	Permits to construct temporary classroom tent buildings and to relocate temporary bungalows to subject property
1935	Los Angeles High School District	Permits to demolish brick school buildings damaged by earthquake Permits to install temporary bungalows
1936	LA Board of Education	Permit to install toilet rooms at an existing school Permit to construct a new auditorium building
1937	City of Los Angeles	Permit to demolish and remove 3-story brick building damaged by earthquake
1938, 1939, 1940, 1942	LAUSD	Permit for an addition to existing shop buildings Permit to demolish "old brick mechanics building" (described as 38th and Hooper and revised to 41st and Hooper) Permit to move 25 bungalow classroom buildings to the subject property
1947	LAUSD	Permit to construct a new "garbage house" adjacent to the exisiting cafeteria building Permit to construct a new building (illegible but appears to be a gymnasium)
1948-49	LAUSD	Permits for multiple small classroom buildings
1949	LAUSD	Permit for a new 8x16 Incinerator Building – Location is not depicted
1950	LAUSD	Permit for a new dishwashing room in an existing 24-year old cafeteria building
1951	LAUSD	Permit to construct new hallway in on-site shop buildings near the electrical shop Permit to construct a new music building
1954	LAUSD	Relocate bungalows Permit to construct a new Boy's Gymnasium Building – drawing shows a parking lot near the current location of the Science Building and bungalows have been moved to the northeast portion of the school property
1956	LAUSD	Permit to construct a new Girl's Gymnasium Building

A copy of pertinent documents is included in Appendix B of this report.

4.1.7 Planning Department

Regulatory Agency Data	
Name of Agency:	Los Angeles Planning Department (LAPD) Los Angeles Bureau of Engineering
Point of Contact:	Public Counter/Online
Agency Address:	201 N. Figueroa Street; 3rd Floor, Los Angeles, California
Agency Phone Number:	(213) 977-6299
Date of Contact:	May 15, 2016
Method of Communication:	Online
Summary of Communication:	According to records reviewed, the subject property is zoned PF-1, for Public Facilities development by the City of Los Angeles.

4.1.8 Oil & Gas Exploration

Regulatory Agency Data	
Name of Agency:	California Division of Oil, Gas and Geothermal Resources (DOGGR)
Point of Contact:	Online Database
Agency Address:	5816 Corporate Avenue, Suite 200, Cypress, California
Agency Phone Number:	(714) 816-6847
Date of Contact:	May 15, 2016
Method of Communication:	Online
Summary of Communication:	According to DOGGR, no oil or gas wells are located on or adjacent to the subject property. The nearest reported oil field is the Downtown Los Angeles Oil Field located over 1.5-miles north of the subject property.

4.1.9 Pipelines

Regulatory Agency Data	
Name of Agency:	California State Fire Marshal (CSFM)
Point of Contact:	Online Database/Email
Agency Address:	1131 "S" Street Sacramento, California
Agency Phone Number:	(916) 445-8200
Date of Contact:	May 5, 2016
Method of Communication:	Online/ Email
Summary of Communication:	According to CSFM, no crude oil pipelines are operated within 1,500-feet of the subject property.

4.1.10 Gas Transmission and High Pressure Pipelines

Regulatory Agency Data	
Name of Agency:	Sempra Energy/Southern California Gas Company (SCG)
Point of Contact:	Online Map
Agency Address:	P.O. Box C, Monterey Park, California
Agency Phone Number:	(909) 305-8261
Date of Contact:	May 5, 2016
Method of Communication:	Online

Regulatory Agency Data	
Summary of Communication:	According to SCG's online mapping database a low-pressure distribution pipeline operating below 60 pounds per square inch (psi) is located along Hooper Avenue adjacent to the west of the subject property.

4.1.11 High Pressure Water Lines and High Voltage Power Lines

Regulatory Agency Data	
Name of Agency:	Los Angeles Department of Water and Power
Point of Contact:	Records Clerk
Agency Address:	111 N Hope Street, Los Angeles, California 90012
Agency Phone Number:	(800)-499-8840
Date of Contact:	May 5, 2016
Method of Communication:	Telephone
Summary of Communication:	According to LADWP Metropolitan Service Planning Division, the subject property is not located within 1,500 feet of a high pressure water pipeline and is not located within 100 feet of any high-voltage power transmission lines.

4.1.12 Gas Transmission and High Pressure Pipelines

Regulatory Agency Data	
Name of Agency:	Sempra Energy/Southern California Gas Company (SCG)
Point of Contact:	Online Map
Agency Address:	P.O. Box C, Monterey Park, California
Agency Phone Number:	(909) 305-8261
Date of Contact:	May 5, 2016
Method of Communication:	Online
Summary of Communication:	According to SCG's online mapping database a low-pressure distribution pipeline operating below 70 psi is located along Hooper Avenue adjacent to the wet of the subject property.

4.1.13 Assessor's Office

Regulatory Agency Data	
Name of Agency:	Los Angeles County Office of the Assessor (LACOA)
Point of Contact:	Online Database
Agency Address:	http://maps.assessor.lacounty.gov/mapping/viewer.asp
Agency Phone Number:	N/A
Date of Contact:	May 15, 2016
Method of Communication:	Online Database
Summary of Communication:	According to records reviewed, the subject property is identified by Assessor Parcel Numbers (APN) 5114-036-900, 901, 902, 903, and -904. The current buildings were constructed in 1915/1916-1989 and total approximately 103,981 square-feet.

4.1.14 Sanitation District

Regulatory Agency Data	
Name of Agency:	Los Angeles County Department of Public Works – Hazardous Materials Division and LA City and County Sanitation District (LASD/LACSD)
Point of Contact:	Email
Agency Address:	2714 Media Center Drive, Los Angeles, California
Agency Phone Number:	(323) 342-6200
Date of Contact:	May 4, 2016
Method of Communication:	Email
Summary of Communication:	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the LACSD or LACDPW. LASD reported records associated with the on-site clarifiers and reported no violations or open issues. Copies of the LASD records have not been received at the time of this report preparation but are considered unlikely to affect the conclusions of the report.

4.2 Mapped Database Records Search

Information from standard federal, state, county, and city environmental record sources was provided by Environmental Data Resources, Inc. (EDR). Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. The information contained in this report was compiled from publicly available sources and the locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

Using the ASTM definition of migration, Partner considers the migration of hazardous substances or petroleum products in any form onto the subject property during the evaluation of each site listed on the radius report, which includes solid, liquid, and vapor.

4.2.1 Regulatory Database Summary

.Radius Report Data				
Database	**Search Radius (mile)**	**Subject Property**	**Adjacent Properties**	**Sites of Concern**
Federal NPL or Delisted NPL Site	1.00	N	N	N
Federal CERCLIS Site	0.50	N	N	N
Federal CERCLIS-NFRAP Site	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	N	N
Federal RCRA TSDF Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, CESQG)	0.25	**Y**	N	N
Federal IC/EC Registries	0.50	N	N	N
Federal ERNS Site	Subject Property	N	N/A	N/A
State/Tribal Equivalent NPL	1.00	N	N	N

Radius Report Data				
Database	**Search Radius (mile)**	**Subject Property**	**Adjacent Properties**	**Sites of Concern**
State/Tribal Equivalent CERCLIS	1.00	N	N	N
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site	0.50	N	N	N
State/Tribal Registered Storage Tank Sites (UST/AST)	0.25	N	**Y**	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	N
State/Tribal Spills	0.50	N	N	N
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N
EDR MGP	1.00	N	N	N
EDR US Hist Auto Station	0.125	N	**Y**	N
EDR US Hist Cleaners	0.125	N	N	N
HAZNET	Subject Property	**Y**	N/A	N/A

4.2.2 Subject Property Listings

The subject property is identified as a HAZNET, RCRA SQG, FINDS, CHMIRS, and ECHO site in the regulatory database report, as discussed below:

- The subject property, identified as LAUSD Jefferson High School at 1319 East 41st Street is identified as an RCRA SQG as of 1987 and no additional information or violations are reported. The listings are likely associated with generation of waste oil, paints and other materials reported generated from on-site industrial arts shops and from maintenance activities. The FINDS and ECHO listings do not reveal any additional information or entries of releases or violations. The CHMIRS entry indicates 800 gallons of sewage was released to a nearby storm drain as a results of a main line sewer blockage on November 21, 2014. The HAZNET listings indicate the subject property has generated hazardous wastes for offsite disposal under manifest of approximately one ton of unreported hazardous wastes in 2013, asbestos-containing waste in 2009 and 2011, 3.8 tons of waste oil and mixed oil, 0.86 ton of latex waste, and 0l.1 ton of laboratory waste chemicals in 2010; 0.418 ton of waste and mixed oil, asbestos waste and other inorganic solid waste in 2009 as well as 297.36 tons of contaminated soil from a site cleanup in 2009, likely associated with the development of the northwest corner of the property with the wellness center and charter school buildings. 45.2 tons of asbestos-containing waste was removed in 2008, and 561.3 tons of other inorganic solid waste, 63.72 tons of contaminated soil from site cleanup, unspecified aqueous solution, and waste oil and mixed oil was removed in 2007. Asbestos containing waste was removed in 2006, waste oil and mixed oil in 2005, other inorganic solid waste in 0.13, off-specification, aged or surplus organic and photochemicals/photo-processing waste in 2004, asbestos waste in 2003, waste oil and mixed oil in 2002, off-specification, aged or surplus organics and oil containing waste in 2001, other organic solids, asbestos waste and PCBs in 2000, and asbestos waste, waste oil and other organic solids in 1999; and

photochemical/photo-processing waste in 1993 to 1998; and asbestos waste in 1993 and 1994. Based on the absence of information suggesting a release and reported prior removal of impacted soil, this listing is not expected to represent a significant environmental concern.

- The subject property identified as Jefferson Continuation High School at 33rd Street and Hooper Avenue is identified as a school investigation site with a status of inactive-withdrawn

4.2.3 Adjacent Property Listings

The adjacent property to the south is identified as an EDR US Historical Auto site, the properties to the east and to the north are identified as SWEEPS UST and CA FID UST sites in the regulatory database report, as discussed below:

- The property to the south, identified as OC Rutledge at 1302 East 41st Street is downgradient and identified as an EDR Historical Auto site as of 1942. NO further information is reported and based on the nature of the listing and absence of listings indicating a release, this listing is not expected to represent a significant environmental concern and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.
- The property to the east, identified as West Coast Foods at 1377 East 41st Street is cross gradient and identified as SWEEPS UST and CA FID UST. No further information is reported and based on the nature of the listing, cross-gradient location, and absence of listings indicating a release, this listing is not expected to represent a significant environmental concern and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.
- The property to the east, identified as West Coast Poultry Co Inc. at 4010 South Compton Avenue is cross gradient and identified as SWEEPS UST and CA FID UST. No further information is reported and based on the nature of the listing, cross-gradient location, and absence of listings indicating a release, this listing is not expected to represent a significant environmental concern and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.
- The property to the north, identified as DayLight Transport at 1359 East 33rd Street is cross gradient and identified as SWEEPS UST and CA FID UST. No further information is reported and based on the nature of the listing, cross-gradient location, and absence of listings indicating a release, this listing is not expected to represent a significant environmental concern and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

4.2.4 Sites of Concern Listings

No sites of concern are identified in the regulatory database report.

4.2.5 Orphan Listings

Two orphan listings are identified in the regulatory database report. Based on the listed addresses and locations, neither of these sites is likely to be located on or near the subject property and they do not appear to represent a concern for the subject property.

A copy of the regulatory database report is included in Appendix C of this report.

4.2.6 Regulatory Database Overview

Federal NPL

The National Priorities List (NPL) is the Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund Program.

No NPL sites are located within 1-mile of the subject property.

Federal CERCLIS List

The Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list is a compilation of sites that the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances.

No CERCLIS sites are listed within ½-mile of the subject property.

Federal CERCLIS-NFRAP Sites List

The CERCLIS No Further Remedial Action Planned (NFRAP) List is a compilation of sites that the EPA has investigated, and has determined that the facility does not pose a threat to human health or the environment, under the CERCLA framework.

Two CERCLIS-NFRAP sites, listed as archive sites, are identified within $^{1}/_{2}$-mile of the subject property.

- Renu Plating Co Inc./Former Renu Plating Company Inc./AKA Proposed Nevin Park Site at 1531 East 32nd Street is located approximately 0.3 mile to the northeast. This property was assessed in 1986 and was found to not quality for listing on the NPL. The site is also identified on the EnviroStor, VCP, DEED, HAZNET, SEMS-ARCHIVE, HIST Cal-Sites, LIENS, HIST CORTESE, LA Co. Site Mitigation, and as an RCRA-LQG site permitted to generate hazardous wastes as of 2010. A removal action was completed in 2010 and a Land Use Covenant for remaining on-site impacted soil was recorded in 2011 and a consent decree was finalized in 2016 along with a purchaser's agreement. The site has reportedly been redeveloped. Based on the cross-gradient location and distance to the subject property, absence of evidence indicating groundwater was impacted, and regulatory closure, this site does not appear to represent a concern and it is unlikely that a file review would alter the conclusions of this report.

- Pacific Pioneer Plastic Co at 1642 East 41st Street is located approximately 0.4 mile to the east/southeast and downgradient. This property was assessed in 1986 and was found to not quality for listing on the NPL. No further information is reported and this property does not appear to represent a concern based on the reported information, distance and gradient and it is unlikely that a file review would alter the conclusions of this report.

Federal RCRA Generator List

The EPA Resource Conservation and Recovery Act (RCRA) Program RCRA program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Generators database is a compilation by the EPA of reporting facilities that generate hazardous waste.

One RCRA Generator facility is listed within $^{1}/_{8}$-mile of the subject property.

- Renu Plating Co Inc./Former Renu Plating Company Inc./AKA Proposed Nevin Park Site at 1531 East 32nd Street is located approximately 0.3 mile to the northeast and is also identified on the CERCLIS NFRAP database and is discussed above. This site was assessed and a remedial action implemented to remove soils impacted with plating wastes and metals. A consent decree was issued in 2016 and no further action is required. Based on the cross-gradient location and distance to the subject property, absence of evidence indicating groundwater was impacted, and regulatory closure, this site does not appear to represent a concern and it is unlikely that a file review would alter the conclusions of this report.

Federal Resource Conservation and Recovery Act (RCRA) TSD Facilities List

The RCRA Treatment, Storage and Disposal (TSD) database is a compilation by the EPA of reporting facilities that treat, store or dispose of hazardous waste.

No RCRA TSD sites are listed within ½-mile of the subject property.

Federal RCRA CORRACTS Facilities List

The RCRA CORRACTS database is the EPA's list of TSD facilities subject to corrective action under RCRA.

No RCRA CORRACTS facilities are listed within 1-mile of the subject property.

Federal Institutional Controls/Engineering Controls (IC/EC)

The Federal IC/EC database is designed to assist the EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant programs. The IC/EC sites are superfund sites that have either engineering or an institutional control in place. The data includes the control and the media contaminated.

No Federal IC/EC sites were found within ¼-mile of the subject property.

Federal Emergency Notification System (ERNS)

The Emergency Response Notification System (ERNS) is a national database used to collect information or reported release of oil or hazardous substances.

No ERNS sites are listed on or adjacent to the subject property.

ENVIROSTOR (HWS)

The California EPA DTSC maintains a Site Mitigation and Brownfields Reuse Program (SMBRP) EnviroStor database which identified sites that have known contamination or sites with evidence that further investigation is warranted. The EnviroStor database includes Federal Superfund site (NPL), State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School Sites. The database identifies formerly contaminated properties that have been granted closure and approved for reuse, properties with environmental deed restriction and land use covenants, and risk characterization information used to assess potential threats to environmental and public health. The data includes the control and the media contaminated.

Twenty six (26) HWS site were identified within ½-mile of the subject property:

- Nevin Avenue Elementary at 1517 East 32nd Street is within 0.288 mile north and Nevin Avenue Elementary at 1569 East 32nd Avenue is 0.577 mile north/northeast
- Former Renu Plating at 1531 East 32nd Street is within 0.300 mile northeast
- Central Region Middle School at South Compton Avenue is 0l.444 mile north/northeast
- Pacific Allied Manufacturing at 2911 South Central Avenue is 0.510 mile northwest
- Los Angeles Food Center at 2652 Long Beach Avenue is 0.575 mile east/northeast
- Stuart F Cooper Co at 1565 and 1570 East 23rd is 0.5767 mile north/northeast
- CRES#17 Site 2 at 33rd Avenue, north of XX is 0.627 mile west/northwest
- C&M Metals Inc. at 1709 East 24gth Street is 0.644 mile northeast
- PIMA Alameda Property at 4051 South Alameda is 0.672 mile east
- The Crossings at 29th at 2901-2907 Griffith Avenue is 0l729 mile northwest
- Shell Oil Co at 2015 Lon Beach Avenue is 0.767 mile northeast
- Los Angeles Unified School District Tweedy at 2807 Stanford Avenue is 0.844 mile northwest
- LA Med Depot at XX is 0.849 mile northeast
- Shelmac Corp at 1440 East Walnut Street is 0.876 mile north/northeast
- Shamrock Iron & Metal at 1949 South Alameda Avenue is 0.897 mile northeast
- Former Gap Products at 1460 East Washington is 0.903 mile north/northeast

- Palace Plating with two listings at 710 East 29th Street is 0.919 mile northwest
- FishKing Processors at 1640 Compton Avenue is -.965 mile north/northeast
- M-5 Steel Inc. at 2901-2921 Saco Street is -0.o982 mile east

These facilities are located potentially up-gradient from the subject property. However, based on information provided in the regulatory database report, relative distance, and/or regulatory closure, none of these facilities appears to represent a concern for the subject property.

- Central Regional Elementary School at East 45 Street and XX is 0.545 mile south/southwest
- Jefferson New Elementary School at McKinley Avenue and 42nd Street is 0.572 mile west/southwest
- Bike Shop at 5201 South Compton Avenue is 0.975 mile south/southeast
- Dependable Refrigeration at 52901 South Central Avenue is 0.994 mile south/southwest

These facilities are located hydrologically cross- to down-gradient from the subject property. However, based on information provided in the regulatory database report, relative distance, inferred direction of groundwater flow, and/or regulatory closure, none of these facilities appears to represent a concern for the subject property.

State/Tribal Sites (SPL)

The California EPA maintains a State Priority List (SPL) of sites considered to be actually or potentially contaminated and a State CERCLIS-equivalent list (SCL) of sites under investigation that could be actually or potentially contaminated and presenting a possible threat to human health and the environment.

Twenty-six (26) SPL sites is listed within 1-mile of the subject property:

- Renu Plating Co Inc./Former Renu Plating Company Inc./AKA Proposed Nevin Park Site at 1531 East 32nd Street is located approximately 0.3 mile to the northeast and is also identified on the CERCLIS NFRAP and RCRA LQG, database and is discussed above. This site was assessed and a remedial action implemented to remove soils impacted with plating wastes and metals. A consent decree was issued in 2016 and no further action is required. Based on the cross-gradient location and distance to the subject property, absence of evidence indicating groundwater was impacted, and regulatory closure, this site does not appear to represent a concern and it is unlikely that a file review would alter the conclusions of this report.

Solid Waste/Landfill Facilities (SWLF)

A database of SWLF is prepared by the California AGENCY.

Two SWLF facilities are listed within ½-mile of the subject property:

- SA Recycling at 2148 Long Beach Avenue is located 0.485 mile east and cross-gradient. This facility is permitted to accept scrap and waste materials and motor vehicle parts and was permitted in 2008. No violations or releases from the property are reported. Based on the cross-gradient location and distance to the subject property, absence of releases or violations, this site does not appear to represent a concern and it is unlikely that a file review would alter the conclusions of this report.
- WE Recycling at 4107 South Central Avenue is located 0.308 mile west and cross-gradient. This facility is permitted as a recycling facility as of 2013. No violations or releases from the property are reported. Based on the cross-gradient location and distance to the subject property, absence of releases or violations, this site does not appear to represent a concern and it is unlikely that a file review would alter the conclusions of this report.

State Leaking Underground Storage Tank List (LUST)

The California EPA RWQCB compiles lists of all leaks of hazardous substances from underground storage tanks.

Three LUST sites are listed within ½-mile of the subject property.

- LA City Fire Station at 3401 South Central Avenue is located approximately 0.4 mile to the northwest. This property was investigated for a release to soil and was granted closured by LAFD on April 18, 2003. Based on the distance and regulatory closure, this site does not appear to represent a concern and it is unlikely that a file review would alter the conclusions of this report.
- Continental Ice Cream is located at 3325 South Central Avenue, approximately 0.41 mile to the northwest. This property was investigated for a release to soil and was granted closured by LAFD on June 21, 2000. Based on the distance and regulatory closure, this site does not appear to represent a concern and it is unlikely that a file review would alter the conclusions of this report.
- Driz Knitting Mill Inc. is located at 3000 South Central Avenue approximately 0.42 mile to the north/northwest. This property was investigated for a release to soil and was granted closured by LAFD on July 3, 2013 concern and it is unlikely that a file review would alter the conclusions of this report.

State Underground Storage Tank/Aboveground Storage Tank List (UST/AST)

The California EPA compiles a list of UST and AST locations.

Eight current and former registered UST/AST facilities are listed within 1/4-mile of the subject property.

- Six of the listings are for West Coast Foods/Poultry is located at 1377 East 41st Street/4010 South Compton and 4024 South Compton Avenue adjacent across Compton Avenue to the east of the subject property and identified as SWEEPS UST and CA FID UST. No further information is reported and based on the nature of the listing, cross-gradient location, and absence of listings

indicating a release, this listing is not expected to represent a significant environmental concern and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.

- Two of the listings are for DayLight Transport at 1359 East 33rd Street is up gradient and identified as SWEEPS UST and CA FID UST. No further information is reported and based on the nature of the listing, and absence of listings indicating a release, this listing is not expected to represent a significant environmental concern and it is unlikely that a regulatory file review for this site would alter the findings of this assessment.

State/Tribal VCP Sites

The California EPA compiles a list of Voluntary Cleanup Program (VCP) sites.

One State/Tribal VCP sites were found within ½-mile of the subject property:

- Renu Plating Co Inc./Former Renu Plating Company Inc./AKA Proposed Nevin Park Site at 1531 East 32nd Street is located approximately 0.3 mile to the northeast and is also identified on the CERCLIS NFRAP and RCRA LQG, database and is discussed above. This site was assessed and a remedial action implemented to remove soils impacted with plating wastes and metals. A consent decree was issued in 2016 and no further action is required. Based on the cross-gradient location and distance to the subject property, absence of evidence indicating groundwater was impacted, and regulatory closure, this site does not appear to represent a concern and it is unlikely that a file review would alter the conclusions of this report.

State/Tribal Brownfield Sites

The California EPA has developed an electronic database system with information about sites that are known to be contaminated with hazardous substances as well as information on uncharacterized properties where further studies may reveal problems.

No State/Tribal Brownfield sites were found within ½-mile of the subject property.

US Brownfield Sites

The EPA Brownfield database was reviewed to identify facilities that qualify for federal remediation funding under the Small Business Liability Relief and Brownfield Revitalization Act (the "Brownfield" amendment to CERCLA).

No US Brownfield sites were noted within ½-mile search of the subject property.

State Spills Sites (SPILLS)

The California EPA RWQCB maintains reports of sites that have records of spills, leaks, investigations and cleanups.

No SPILLS identification was listed within ¼-mile of the subject property.

Tribal Records

The EPA maintains a database of Indian administered lands of the United States that total 640 acres or more.

No Tribal sites were found within 1-mile of the subject property.

MANIFEST Sites

The California EPA DTSC maintains a Manifest database which lists and tracks hazardous waste from the generator through transporters to a TSD facility.

No Manifest sites are listed on or adjacent to the subject property.

DRYCLEANERS Sites

The California EPA maintains a list of registered dry cleaning facilities.

No DRYCLEANERS are listed on or adjacent to the subject property.

5.0 USER PROVIDED INFORMATION AND INTERVIEWS

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The *User* should provide the following information to the *environmental professional*. Failure to provide this information could result in a determination that *all appropriate inquiries* is not complete. The *User* is asked to provide information or knowledge of the following:

- Review Title and Judicial Records for Environmental Liens and AULs
- Specialized Knowledge or Experience of the User
- Actual Knowledge of the User
- Reason for Significantly Lower Purchase Price
- Commonly Known or *Reasonably Ascertainable* information
- Degree of Obviousness
- Reason for Preparation of this Phase I ESA

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. Partner requested our Client to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance.

Pursuant to ASTM E1527-13, Partner requested the following site information from LAUSD OEHS (User of this report).

User Responsibilities				
Item	**Provided By User**	**Not Provided By User**	**Discussed Below**	**Does Not Apply**
Environmental Pre-Survey Questionnaire			**X**	
Title Records, Environmental Liens, and AULs			**X**	
Specialized Knowledge			**X**	
Actual Knowledge			**X**	
Valuation Reduction for Environmental Issues			**X**	
Identification of Key Site Manager	**Section 5.1.3**			
Reason for Performing Phase I ESA	**Section 1.1**			
Prior Environmental Reports		**X**		
Other			**X**	

5.1 Interviews

5.1.1 Interview with Owner

Mr. Dane Robinson, representative of LAUSD, subject property owner, was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

According to Mr. Robinson, the subject property was developed originally in 1916 and reconstructed in 1935 as a high school. According to historical records available on-site, the property was developed with rodeo grounds and athletic fields as a stopping point between the San Francisco and San Diego World Expositions in 1915. Mr. Robinson further stated that there are no USTs, ASTs, or groundwater monitoring wells on the subject property to the best of his knowledge.

5.1.2 Interview with Report User

LAUSD, the property owner, is also the Report User and was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

5.1.3 Interview with Key Site Manager

Mr. Jimmy Gomez key site manager, indicated that he had no information pertaining to any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

According to Mr. Gomez all hazardous materials with the exception of non-hazardous cleaners and limited quantities of latex paints, oil, and gasoline, were removed from the subject property by LAUSD's Environmental Department over five years ago.

5.1.4 Interviews with Past Owners, Operators and Occupants

Interviews with past owners, operators and occupants were not conducted since information regarding the potential for contamination at the subject property was obtained from other sources.

5.1.5 Interview with Others

As the subject property is not an abandoned property as defined in ASTM 1527-13, interview with others were not performed.

5.2 User Provided Information

5.2.1 Title Records, Environmental Liens, and AULs

Partner was not provided with title records or environmental lien and AUL information for review as part of this assessment.

5.2.2 Specialized Knowledge

No specialized knowledge of environmental conditions associated with the subject property was provided by the User at the time of the assessment.

5.2.3 Actual Knowledge of the User

No actual knowledge of any environmental lien or AULs encumbering the subject property or in connection with the subject property was provided by the User at the time of the assessment.

5.2.4 Valuation Reduction for Environmental Issues

No knowledge of valuation reductions associated with the subject property was provided by the User at the time of the assessment.

5.2.5 Commonly Known or Reasonably Ascertainable Information

The User did not provide information that is commonly known or *reasonably ascertainable* within the local community about the subject property at the time of the assessment.

5.2.6 Previous Reports and Other Provided Documentation

No previous reports or other pertinent documentation was provided to Partner for review during the course of this assessment.

6.0 SITE RECONNAISSANCE

The weather at the time of the site visit was sunny and clear. Refer to Section 1.5 for limitations encountered during the field reconnaissance and Sections 2.1 and 2.2 for subject property operations. The table below provides the site assessment details:

Site Assessment Data	
Site Assessment Performed By:	Robin Blanchard
Site Assessment Conducted On:	April 27, 2016

The table below provides the subject property personnel interviewed during the field reconnaissance:

Site Visit Personnel for 1319 East 41st Street (Subject Property)			
Name	**Title/Role**	**Contact Number**	**Site Walk* Yes/No**
Jimmy Gomez	Key Site Manager	(323) 521-1200	Yes

* Accompanied Partner during the field reconnaissance activities and provided information pertaining to the current operations and maintenance of the subject property

No potential environmental concerns were identified during the on-site reconnaissance.

6.1 General Site Characteristics

6.1.1 Solid Waste Disposal

Solid waste generated at the subject property is disposed of in commercial dumpsters located across the subject property. An independent solid waste disposal contractor, Consolidated Disposal Services, removes solid waste from the subject property. According to property personnel, only office and limited food waste is collected in the on-site solid waste dumpsters.

6.1.2 Sewage Discharge and Disposal

Sanitary discharges on the subject property are directed into the municipal sanitary sewer system. The City of Los Angeles services the subject property vicinity. No wastewater treatment facilities or septic systems are observed or reported on the subject property.

6.1.3 Surface Water Drainage

Site storm water from roofs, landscaped areas, and paved areas is directed to on-site concrete swales, which drain to the public right of way, and to on-site storm water drains. The subject property is connected to a municipal owned and maintained sewer system.

The subject property does not appear to be a designated wetland area, based on information obtained from the United States Fish & Wildlife Service; however, a comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property. No surface impoundments, wetlands, natural catch basins, settling ponds, or lagoons are located on the subject property. No drywells were identified on the subject property.

6.1.4 Source of Heating and Cooling

Heating and cooling systems as well as domestic hot water equipment are fueled by electricity and natural gas provided by LADWP and The Gas Company. Heating is provided by individual package rooftop mounted units. Domestic hot water is provided by a central boiler, small individual electric and natural gas water heaters.

6.1.5 Wells and Cisterns

No aboveground evidence of wells or cisterns was observed during the site reconnaissance.

6.1.6 Wastewater

Domestic wastewater generated at the subject property is disposed by means of the sanitary sewer system. No industrial process is currently performed at the subject property.

6.1.7 Septic Systems

No septic systems were observed or reported on the subject property. Based on the original date of construction (1916) it is possible that septic systems served the original school construction.

6.1.8 Additional Site Observations

No additional general site characteristics were observed during the site reconnaissance.

6.2 Potential Environmental Hazards

6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

Partner identified hazardous substances used, stored, and/or generated on the subject property as noted in the following table:

Hazardous Substances and/or Petroleum Products Noted On-site				
Substance	**Container Size**	**Location**	**Nature of Use**	**Disposal Method**
Gasoline	1x 55-gallon drum	Secured enclosure north of boiler house	Fuel for on-site equipment	N/A
Diesel	1x 55-gallon drum	Secured enclosure north of boiler house	Fuel for on-site equipment	N/A
Paints	Various 1 and 5-gallon cans	Maintenance Area and boiler house	Routine Maintenance	Used up or disposed as needed
Oil	1 quart to 1 gallons	Maintenance Area and boiler house	Routine Maintenance	Used up or disposed as needed
Blanket Wash	1x5-gallon container	Print Shop	Wiping printing press plates	Used rags collected and disposed as needed

The materials were found to be properly labeled and stored at the time of the assessment with no signs of leaks, stains, or spills. Secondary containment is provided. Based on the nature of use, overall small

quantities observed, presence of secondary containment, and lack of violations on-file with the local fire department, these materials are not expected to represent a significant environmental concern.

6.2.2 Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)

No evidence of current or former ASTs or USTs was observed during the site reconnaissance.

6.2.3 Evidence of Releases

No spills, stains or other indications that a surficial release has occurred at the subject property were observed.

6.2.4 Polychlorinated Biphenyls (PCBs)

Older transformers and other electrical equipment could contain PCBs at a level that subjects them to regulation by the U.S. EPA. PCBs in electrical equipment are controlled by United States Environmental Protection Agency regulations 40 CFR, Part 761. Under the regulations, there are three categories into which electrical equipment can be classified: 1) Less than 50 parts per million (ppm) of PCBs – "*Non-PCB;*" 2) 50 ppm-500 ppm – "*PCB-Contaminated;*" and, 3) Greater than 500 ppm – "*PCB-Containing.*" The manufacture, process, or distribution in commerce or use of any PCB in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

The on-site reconnaissance addressed indoor and outdoor transformers that may contain PCBs. Three pad-mounted transformers were observed on the subject property. The transformers are not labeled indicating PCB content. No staining or leakage was observed in the vicinity of the transformers. Partner contacted a customer service representative of LADWP who confirmed that LADWP maintains ownership and operational responsibility for the transformers and that the units do not contain PCBs. Based on the good condition of the equipment, the transformers are not expected to represent a significant environmental concern. Based on the age of the subject property it is possible that older transformers were present on the site; however, based on the redevelopment of the school since 1933 and the lack of observed or reported additional historical electrical transformer units or other equipment, the potential for any PCB-containing electrical equipment to remain on-site appears to be low.

Two in-ground hydraulic lifts were observed at the south end of the auto shop, in the industrial arts building on the northeast corner of the subject property. The lifts have not been used in at least five years and the condition of any subsurface hydraulic reservoirs is not reported.

In addition, the subject property is equipped with two hydraulic elevators. The hydraulic elevators are located in the Science building (constructed in 1970) and the administration building (constructed in approximately 1937). The elevator equipment rooms were not accessible during the site reconnaissance. However, based on the date of construction, there is a potential that the on-site hydraulic elevators utilize or formerly utilized PCBs.

No other potential PCB-containing equipment (interior transformers, oil-filled switches, lifts, dock levelers, balers, etc.) was observed on the subject property during Partner's reconnaissance.

6.2.5 Strong, Pungent or Noxious Odors

No strong, pungent or noxious odors were evident during the site reconnaissance.

6.2.6 Pools of Liquid

No pools of liquid were observed on the subject property during the site reconnaissance.

6.2.7 Drains, Sumps and Clarifiers

Partner observed the following drains, sumps, and/or clarifiers located on the subject property:

	Floor Drain(s)	Clarifier(s)
Number Observed:	Three	Three
Location:	Spray Booth and Auto Shop	Spray Booth and Auto Shop
Point of Discharge:	Clarifiers	Sanitary Sewer
Sealed/Bermed:	Unknown	No

The clarifiers, also referred to as oil/water separators, were installed in the 1960s and 1970s and were used to treat wastewater streams generated from the former spray booth and auto shops. According to Mr. Gomez of Jefferson High School, the clarifiers have not been used in several years. The clarifiers have the potential to impact the subsurface of the subject property should the system become compromised.

6.2.8 Pits, Ponds and Lagoons

No pits, ponds or lagoons were observed on the subject property.

6.2.9 Stressed Vegetation

No stressed vegetation was observed on the subject property.

6.2.10 Additional Potential Environmental Hazards

Based on the ongoing use of the subject property for agriculture both prior to development in 1915 and during the course of the school development, there is potential that organochlorine pesticides or other fertilizers and herbicides have been used at the subject property.

6.3 Non-ASTM Services

6.3.1 Asbestos-Containing Materials (ACMs)

Asbestos is the name given to a number of naturally occurring, fibrous silicate minerals mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 requires certain construction materials to be *presumed* to contain asbestos, for purposes of this regulation. All thermal system insulation (TSI), surfacing material, and asphalt/vinyl flooring that are present in a building constructed prior to 1981 and have not been appropriately tested are "presumed asbestos-containing material" (PACM).

The subject property buildings were constructed in the 1930s and 1960s. Partner has conducted a limited, visual evaluation of accessible areas for the presence of suspect ACMs at the subject property. The

objective of this visual survey was to note the presence and condition of suspect ACM observed. Please refer to the table below for identified suspect ACMs:

Suspect ACMs			
Suspect ACM	**Location**	**Friable Yes/No**	**Physical Condition**
Drywall Systems	Throughout Building Interior	No	Good
Floor Tiles	Throughout Building Interior	No	Good
Floor Tile Mastic	Throughout Building Interior	No	Good
Spray-Applied Acoustical Material	Throughout Building Interior	Yes	Good
Stucco	Throughout Building Exterior	No	Good

The limited visual survey consisted of noting observable materials (materials which were readily accessible and visible during the course of the site reconnaissance) that are commonly known to potentially contain asbestos. This activity was not designed to discover all sources of suspect ACM, PACM, or asbestos at the site; or to comply with any regulations and/or laws relative to planned disturbance of building materials such as renovation or demolition, or any other regulatory purpose. Rather, it is intended to give the User an indication if significant (significant due to quantity, accessibility, or condition) potential sources of ACM or PACM are present at the subject property. Additional sampling, assessment, and evaluation will be warranted for any other use.

Partner was not provided building plans or specifications for review, which may have been useful in determining areas likely to have used ACM.

According to the US EPA, ACM and PACM that is intact and in good condition can, in general, be managed safely in-place under an Operations and Maintenance (O&M) Program until removal is dictated by renovation, demolition, or deteriorating material condition. Prior to any disturbance of the construction materials within this facility, a comprehensive ACM survey is recommended.

6.3.2 Lead-Based Paint (LBP)

Lead is a highly toxic metal that affects virtually every system of the body. LBP is defined as any paint, varnish, stain, or other applied coating that has 1 mg/cm^2 (or 5,000 ug/g or 0.5% by weight) or more of lead. Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as "Title X", to protect families from exposure to lead from paint, dust, and soil. Under Section 1017 of Title X, intact LBP on most walls and ceilings is not considered a "hazard," although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated. Further, Section 1018 of this law directed the Housing and Urban Development (HUD) and the US EPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978.

Based on the age of the subject property buildings (pre-1978), there is a potential that LBP is present. Interior and exterior painted surfaces were observed in good condition and therefore not expected to represent a "hazard," although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated.

Actual material samples would need to be collected in order to determine if LBP is present.

6.3.3 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. According to the California Department of Public Health Indoor Radon Program, dated February 26, 2016 and the LAUSD Radon Map, dated April 2016, the subject property is located in a low radon zone. Therefore, based on the radon zone classification, radon is not expected to represent a significant environmental concern for the subject property.

6.3.4 Lead in Drinking Water

According to available information, a public water system operated by the LADWP serves the subject property vicinity. According to a representative of the LADWP, shallow groundwater beneath the subject property is not utilized for domestic purposes. The sources of public water for the City of Los Angeles are surface water from State Water Project and Colorado River. According to the City of Los Angeles and the 2016 Annual Water Quality Report, water supplied to the subject property is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper.

6.3.5 Mold

Molds are microscopic organisms found virtually everywhere, indoors and outdoors. Mold will grow and multiply under the right conditions, needing only sufficient moisture (e.g.in the form of very high humidity, condensation, or water from a leaking pipe, etc.) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding).

Partner observed accessible, interior areas for the subject property buildings for significant evidence of mold growth with the exceptions detailed in Section 1.5 of this report; however, this ESA should not be used as a mold survey or inspection. Additionally, this limited assessment was not designed to assess all areas of potential mold growth that may be affected by mold growth on the subject property. Rather, it is intended to give the client an indication as to whether or not conspicuous (based on observed areas) mold growth is present at the subject property. This evaluation did not include a review of pipe chases, mechanical systems, or areas behind enclosed walls and ceilings.

No obvious indications of water damage or mold growth were observed during Partner's visual assessment.

6.4 Adjacent Property Reconnaissance

The adjacent property reconnaissance consisted of observing the adjacent properties from the subject property premises. No items of environmental concern were identified on the adjacent properties during the site assessment, including hazardous substances, petroleum products, ASTs, USTs, evidence of releases, PCBs, strong or noxious odors, pools of liquids, sumps or clarifiers, pits or lagoons, stressed vegetation, or any other potential environmental hazards.

7.0 ENVIRONMENTAL SCHOOL SITE SELECTION SCREENING CRITERIA CHECKLIST

A copy of the Environmental School Site Selection Screening Criteria checklist is included in Appendix A. The information compiled for the checklist indicates no identified concerns on or adjacent to the subject property.

7.1 High Voltage Power Transmission Lines

No high voltage power lines were observed or reported on-site or within 350-feet of the subject property.

7.2 Railroads

Southern Pacific Railroad Tracks and Metro line Tracks are located over 2,000-feet east of the subject property. Historical railroad tracks were identified on Sanborn Fire insurance maps, topographic maps, and aerial photographs approximately 1,700-feet to the north of the subject property.

7.3 Hazardous Disposal Sites

Based on review of the EDR Report and observations during the site visit, no significant hazardous or solid waste disposal sites were identified on-site or within 2,000-feet of the subject property.

7.4 Gas or Sewer Pipelines

No hazardous waste, hazardous materials or petroleum pipelines were reported on-site or within 1,500-feet of the subject property. The Southern California Gas Company reported no high pressure natural gas lines in the site vicinity. One low pressure line, (less than 60 pounds per cubic feet) is located adjacent to the west of the subject property beneath Hooper Avenue.

7.5 Airports

Based on review of topographic maps and online mapping programs (Google Earth), no airports are located within two nautical miles of the subject property. Hawthorn Municipal Airport is located approximately seven miles to the southwest.

7.6 High Pressure Water Pipelines, Reservoirs, Water Storage Tanks

Based on review of topographic maps and LADWP documentation, no reservoirs or water storage tanks, high-pressure water pipelines, reservoirs, or water storage tanks were observed or reported on or within 1,500-feet of the subject property.

7.7 Major Roadways

The closest major roadway to the subject property is Long Beach Boulevard, located approximately 2,000-feet east of the subject property

7.8 Geologic Special Studies Zone

Based on maps reviewed online from the California Division of Mines and Geology and the Los Angeles City Planning Department, the subject property is not located on or near an active fault as designated by the California Alquist-Priolo Earthquake Fault Zoning Act. The nearest such fault (Puente Hills Blind Thrust Fault) is located over one mile to the northeast. Review of the Alquist-Priolo Special Studies Zone Maps shows no Alquist-Priolo Special Studies zones within the Los Angeles, California USGS Quadrangle. The nearest reported fault is the Puente Hills Blind Thrust and the nearest Alquist-Priolo Special Studies zone is the Los Angeles Blind Thrusts region located over one mile to the northeast from the subject property.

Based on review of Los Angeles City Planning Department online data, the subject property is not located in an area where historical occurrence of liquefaction, local geological geotechnical or groundwater conditions indicate potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693© would be required.

7.9 Flood and Inundation

The site is not located within a flood inundation zone based on review of FEMA and Los Angeles Planning Department websites.

7.10 Border Zone Property

The subject property and surrounding area are not identified as Border Zone Properties based on the Los Angeles Planning Department website.

8.0 FINDINGS AND CONCLUSIONS

Findings

A *REC* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- The subject property operated on-site industrial arts classrooms including auto engine and auto body repair. The subject property is equipped with two below-grade hydraulic lifts located within the south end of the former industrial arts building and with a spray booth on the north end of the building. The lifts were reported installed during building construction in the 1960s and the spray booth was installed in the 1980s. Soil sampling in the area of the lifts and spray booth is recommended to evaluate the potential for releases of hydraulic oil, paints, or solvents to have impacted soil.
- Three oil/water separators (clarifiers) are located to the north and east of the industrial arts building and are connected to floor drains in the spray booth and in the repair areas. Soil sampling in the area of the clarifiers is recommended to evaluate the potential for releases of oil or other petroleum based substances, and solvents to have impacted soil.
- There is one recently used shop area in the industrial arts building that previously was used for metal, electrical, wood-working, and printing classrooms and historic shop areas located south of the current industrial arts building and in the original 1916 science and arts buildings that occupied the current location of the Academic Building prior to 1933. Based on the age of the historic shop buildings dating to 1920 or earlier, there is potential for septic tanks, sumps, or clarifiers to remain in these areas.
- Two hazardous materials storage enclosures containing 55-gallon drums of gasoline and diesel fuel are located to the west of the current arts building and one former hazardous waste storage enclosure used to store waste oil, filters, and coolant in 55-gallon drums is located to the east of the industrial arts building. These structures date to the 1950s or 1960s and potential exists for releases from these storage area to have impacted soil.
- Two historical paint storage buildings were identified to the north and northwest of the boiler house. Potential exists that releases of paints or solvents in these locations has impacted soil,
- The boiler house building was constructed in 1916 and formerly housed fuel oil boilers and an incinerator. The potential exists that fuel oil ASTs and/or USTs were present beneath or near the building and that spillage or leakage from historical fuel storage has impacted soil.
- The northeastern portion of the subject property is used for a garden and appears to have been since prior to original site development in 1915/1916. Additionally, the center and the

northeastern quarter of the property appear to have been used for agriculture until the 1950s or 1960s. Organochlorine pesticides may have been used historically in these areas.

- The potential exists for residual arsenates in soil and under pavement from application of arsenic-based herbicides, based on experience at other LAUSD school sites of similar age.
- Due to the age of the on-site structures and historical use of the property for agriculture, lead, arsenic, and organochlorine pesticides in soil testing is recommended in accordance with the Department of Toxic Substances Control (DTSC) "Interim Guidance Evaluation of School Sites With Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphyenyls from Electrical Transformers revised June 9, 2006."

A *CREC* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *HREC* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- Partner did not identify any historical recognized environmental conditions during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- Due to the age of the subject property building/buildings, there is a potential that asbestos-containing material (ACM) and/or lead-based paint (LBP) are present. Overall, suspect ACMs and painted surfaces were observed in good condition and do not appear to pose a health and safety concern to the occupants of the subject property at this time. A few areas of the building materials, including ceiling tiles, however, were noted during the assessment to be broken, chipped, and/or have signs of water damage. Should these materials be replaced, the identified suspect ACMs would need to be sampled to confirm the presence or absence of asbestos prior to any renovation or demolition activities to prevent potential exposure to workers and/or building occupants.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 1319 East 41st Street in the City of Los Angeles, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed evidence of recognized environmental conditions and/or environmental issues in connection with the subject property. Based on the conclusions of this assessment, Partner recommends the following:

- A Preliminary Environmental Assessment (PEA) Equivalent is recommended to evaluate and investigate the identified RECs, and determine whether soil and/or groundwater has been impacted due to the historical use of the subject property.

9.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Partner has performed a Phase I Environmental Site Assessment of the property located at 1319 East 41st Street in the City of Los Angeles, Los Angeles County, California in general conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. Partner has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:

Robin Blanchard
Environmental Professional

Reviewed By:

Adam Bailey
Project Manager

10.0 REFERENCES

Reference Documents

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E1527-13.

Environmental Data Resources (EDR), Radius Report, April 2016

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, accessed via internet, May 2016

United States Department of Agriculture, Natural Resources Conservation Service, accessed via internet, May 2016

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, accessed via the internet, May 2016

United States Environmental Protection Agency, EPA Map of Radon Zones (Document EPA-402-R-93-071), accessed via the internet, May 2016

United States Geological Survey, accessed via the Internet, May 2016

United States Geological Survey Los Angeles and Hollywood Topographic Map 2012, 7.5 minute series, accessed via internet, May 2016

FIGURES

1 SITE LOCATION MAP

2 SITE PLAN

3 TOPOGRAPHIC MAP

PARTNER

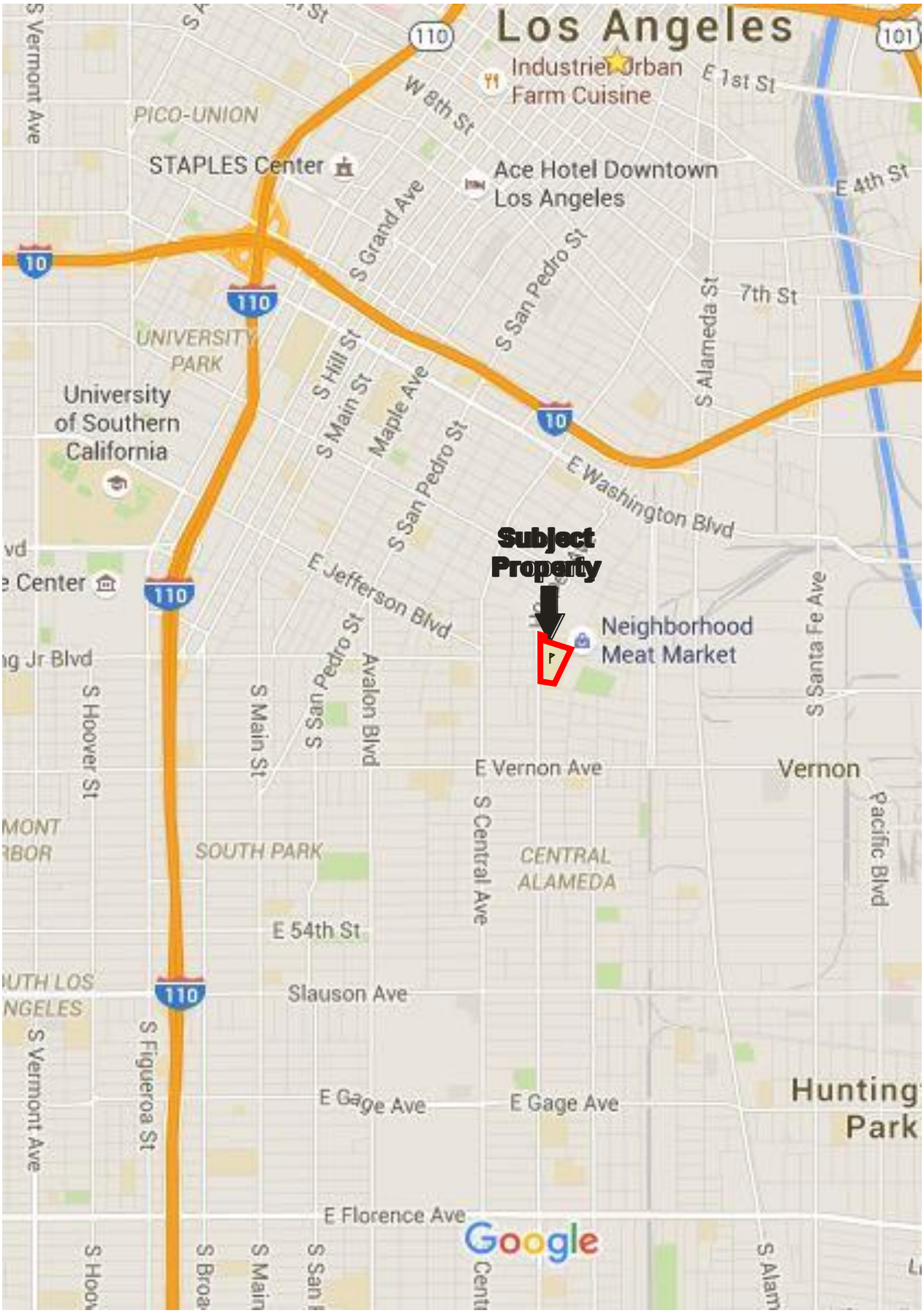


FIGURE 1: SITE LOCATION MAP
Project No. 16-158197.1

Drawing Not To Scale

PARTNER

N

GROUNDWATER FLOW

KEY:

Subject Site

Spray Booth and Auto Body Shop

Former Auto and Industrial Shops

Auto Engine Repair

Boiler House

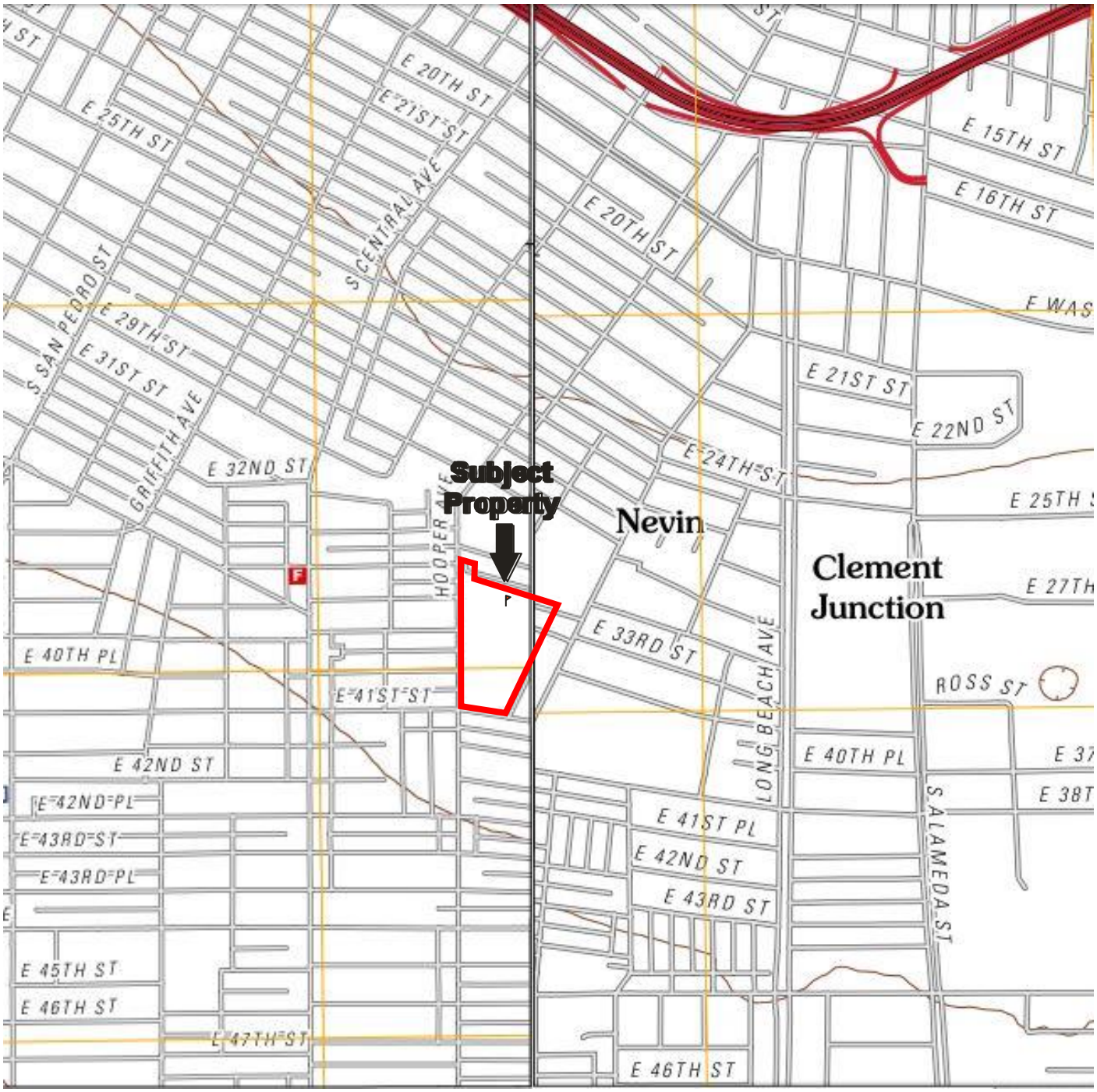
Clarifiers

Hazardous Materials/Waste Storage

FIGURE 2: SITE PLAN

Project No. 16-158197.1

PARTNER



USGS 7.5 Minute *Hollywood and Los Angeles, California* Quadrangle Created: 2012

FIGURE 3: TOPOGRAPHIC MAP
Project No. 16-158197.1

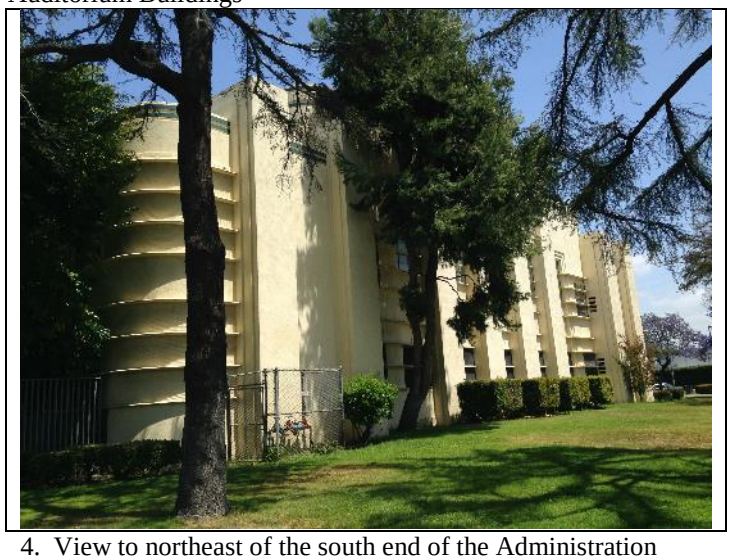
PARTNER

APPENDIX A: SITE PHOTOGRAPHS

1. View to northwest of the main entrance to Jefferson High School campus looking toward the Administration and Academic Buildings

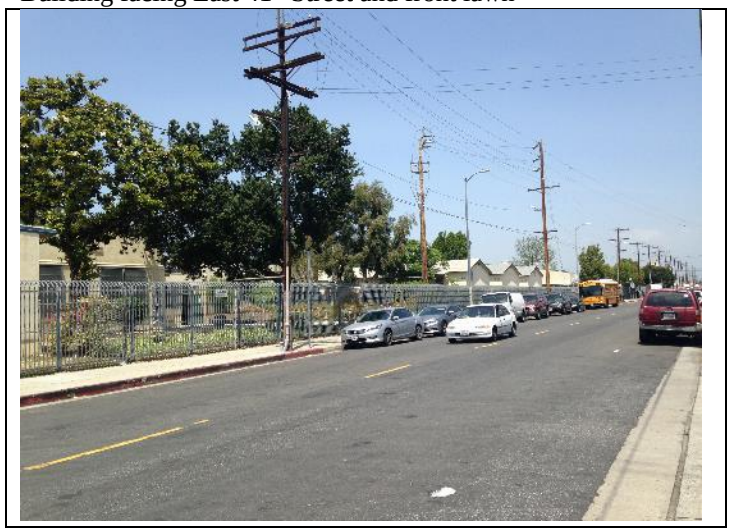
2. View to northeast of the pedestrian walkway on the southwest corner of the site looking toward the Administration and Auditorium Buildings

3. View to northeast of the west side of the Auditorium Building and parking lot on the southwest portion of the site

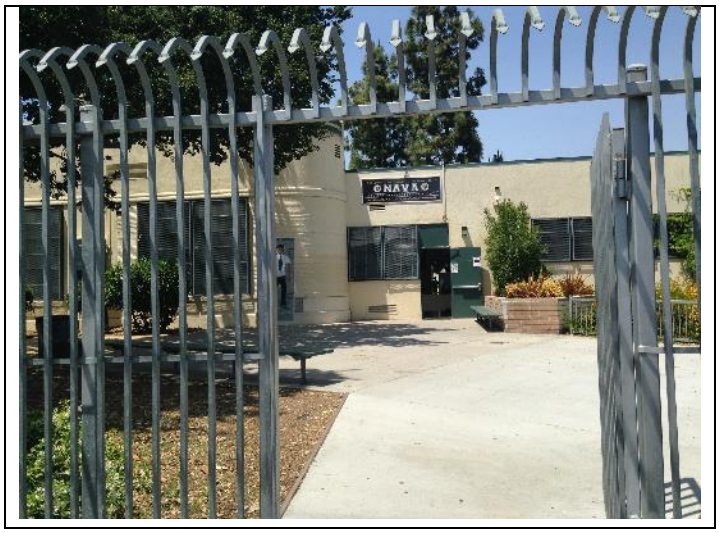


4. View to northeast of the south end of the Administration Building facing East 41st Street and front lawn

5. View to southeast toward the east side of the Academic Building on the southeast side of the property

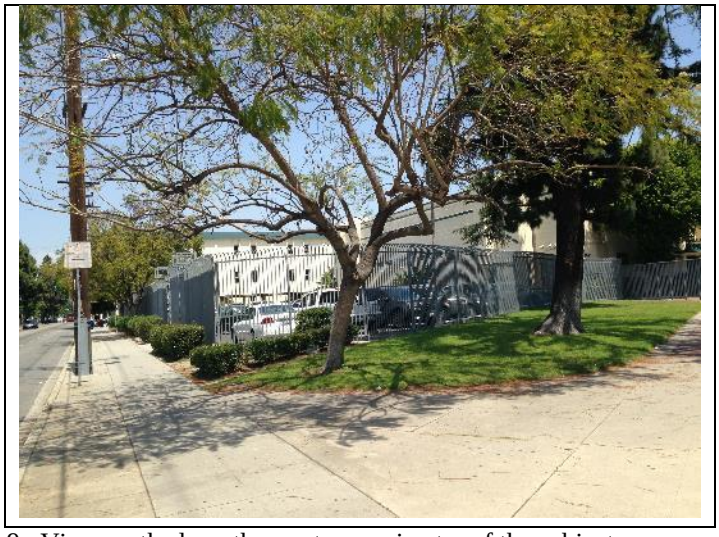


6. View north/northwest along Compton Avenue looking toward the Arts Building and modular classrooms on the east side of the property



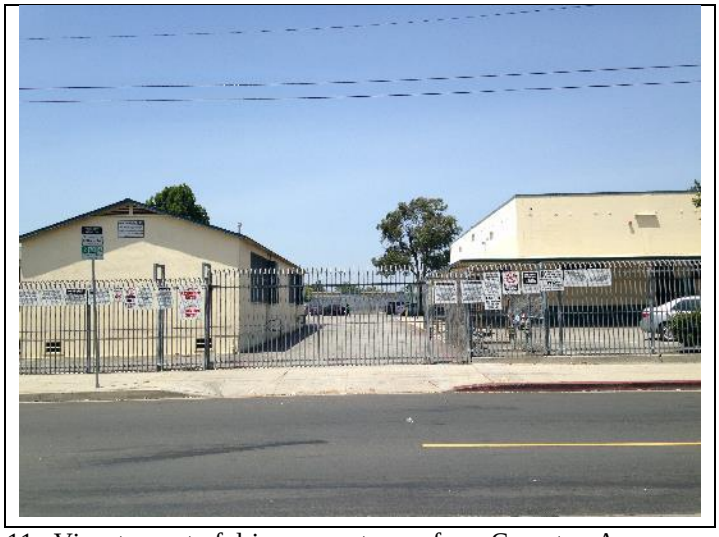
7. View of pedestrian entrance on the east to the Arts Building and main office for the Nava School

8. View east along the southern perimeter of the subject property fronting on East 41st Street

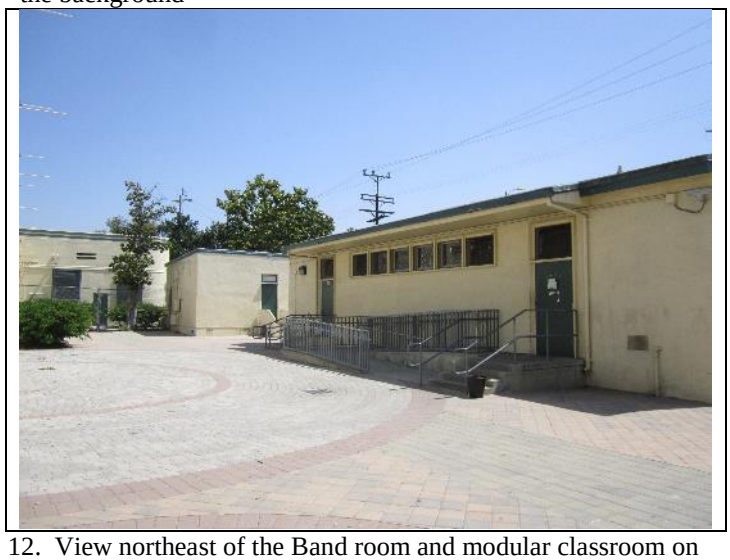


9. View north along the western perimeter of the subject property fronting on Hooper Avenue

10. View of pedestrian entrance on the east with the Arts Building on the left and modular structures to the right and in the background



11. View to west of driveway entrance from Compton Avenue with modular classrooms on the left and the Industrial Arts Building on the right



12. View northeast of the Band room and modular classroom on the east side of the subject property

13. View to northeast of the Science Building and ground level parking. The Maintenance Office is on the left

14. View across the center courtyard looking from the Science Building to the Academic Building

15. View west of the rear (east side) of the Boys Gymnasium Building

16. View of the south side (main entrance) to the Girls Gymnasium Building

17. View to northeast of the Boiler House and adjacent campus sales and counseling building with the Academic Building in the background

18. View northeast of the Arts Building across the former Paint Storage Building location

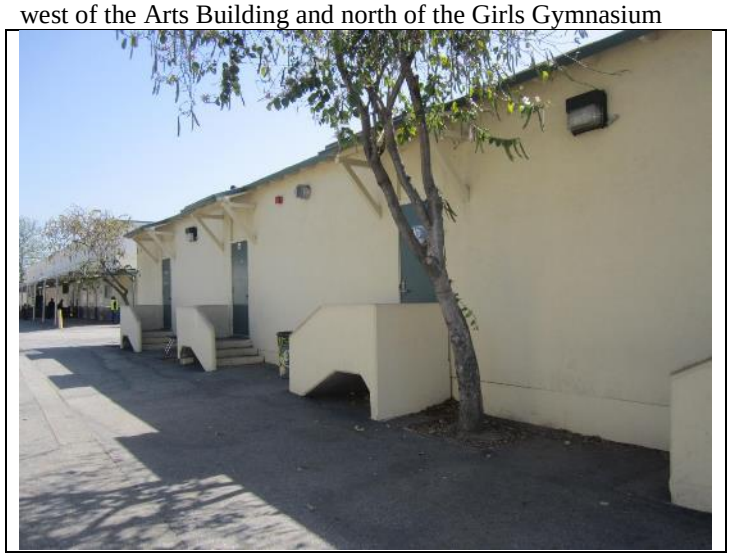
19. View south of the Boiler House with the Arts Building and Academic Buildings on the left

20. View north across the basketball courts between the two Gymnasium Buildings

21. View north with the Arts Building on the right and storage sheds on the left

22. View of gasoline and diesel drum storage enclosures to the west of the Arts Building and north of the Girls Gymnasium

23. View west across the Tennis Courts toward the athletic field and bleachers on the west side of the subject property



24. View of typical modular classroom buildings on the northeast corner of the subject property

25. View southwest across the Garden Area on the northeast corner of the subject property

26. View south of the Parent Center building, rainwater collection barrels and old electrical vault building on the northeast portion of the site.

27. View east across the northern perimeter on the northeast corner looking toward the paint spray booth on the north end of the Industrial Arts Building

28. View west along the northern site perimeter – north Industrial Arts Building on the left and offsite residences on the right

29. View of the entrance of the paint spray booth on the north end of the north Industrial Arts Building

30. View north along the east side of the Industrial Arts Building – two clarifiers are in ground and the former auto shop hazardous waste storage enclosure is on the right

31. View of in-ground hydraulic lift at the south end of the Industrial Arts Building

32. Stored cleaning and maintenance items in the Maintenance Office at the west end of the Science Building

33. View of Janitor's closet in the Science Building

34. View of apparent piping sump in the Boiler House

35. View of boilers and miscellaneous storage in the Boiler House

36. View of incinerator in the Boiler House

37. Interior view of the Boiler House

38. Additional view of the Boiler House with condensate sump on the right

39. View of the interior of the Greenhouse

40. View of former Auto Body Repair area in the north Industrial Arts Building adjoining the spray booth

41. View of clarifier adjacent to the east of the spray booth

42. View of classrooms in the Industrial Arts Building

43. View of miscellaneous storage in the mezzanine area of the Industrial Arts Building

44. Cleaning and maintenance supplies in the Industrial Arts Building

45. View of printing press in the Printing Shop on the south end of the Arts Building

46. View of stored inks in the Printing Shop

47. View of storage room with empty containers at the Industrial Arts Building

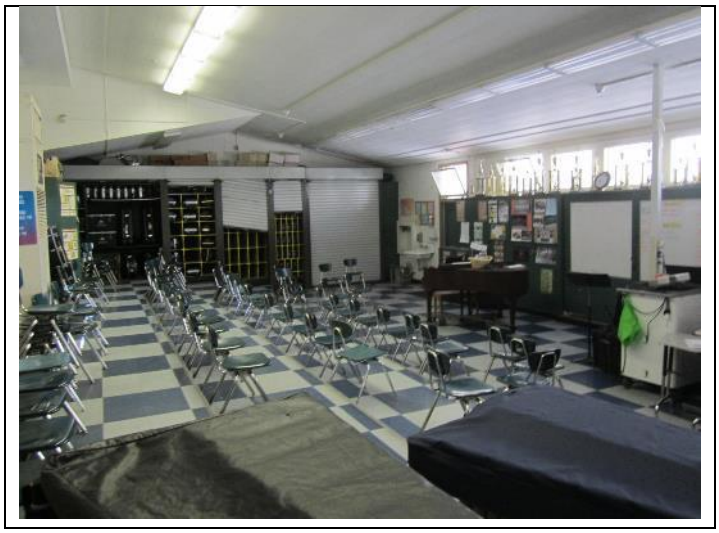
48. View of miscellaneous storage in the south end of the Industrial Arts Building – former auto repair shop

49. Oil filter draining drum in the south end of the former Auto Repair Shop in the Industrial Arts Building

50. View of stored gasoline drums in the fuel storage enclosures

51. View of ceramics arts classroom in the Arts Building

52. View of typical classroom hallway in the Academic Building



53. Interior view of the Music Building

54. View of covered walkway from the Academic Building to the Cafeteria

55. View of the food preparation area in the Cafeteria Building

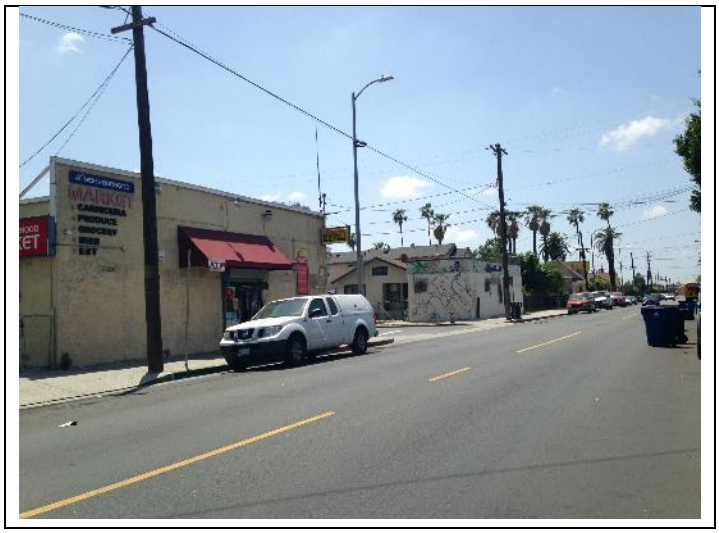
56. View of elevator lobby in the Academic/Administration Building

57. View of the library in the Administration Building

58. View of the Wellness Center Building on the northwest corner of the subject property

59. View east along East 33rd Street of residences adjacent to the north with the truck lot on the left

60. View to southwest of the residences, church and parking lot adjacent to the south across East 41st Street



61. View to south/southeast along Compton Avenue of the market and residences to the east across Compton

62. View northeast of commercial food distribution facilities across Compton to the east on the south end of the block

63. View north along Compton Avenue of the adjacent distribution facilities with residences beyond

64. View of residence adjacent to the north fronting on Compton Avenue

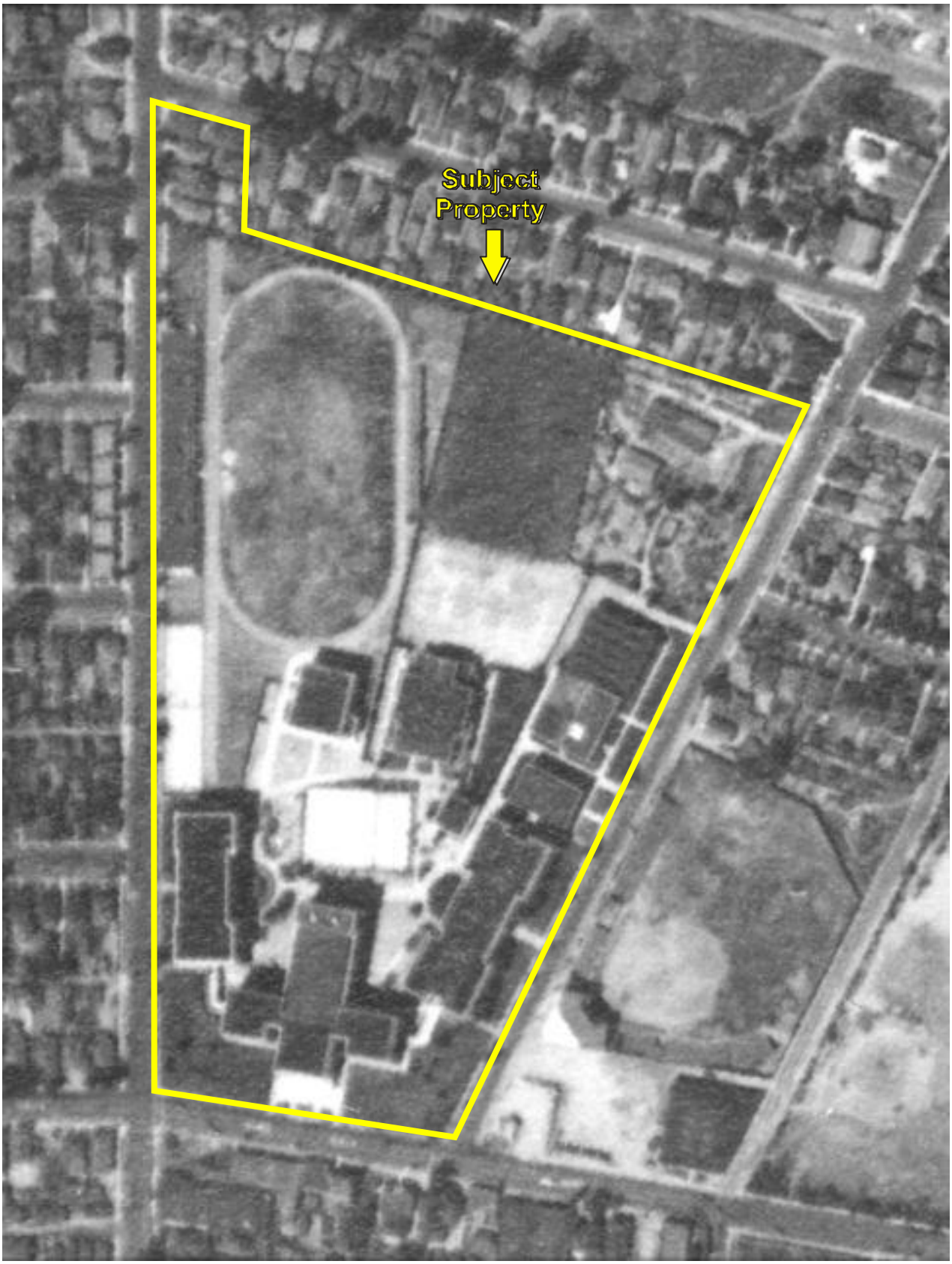
65. View southeast of commercial properties along East 41st Street to the southeast

66. View north along Hooper Avenue of the offsite residences to the west

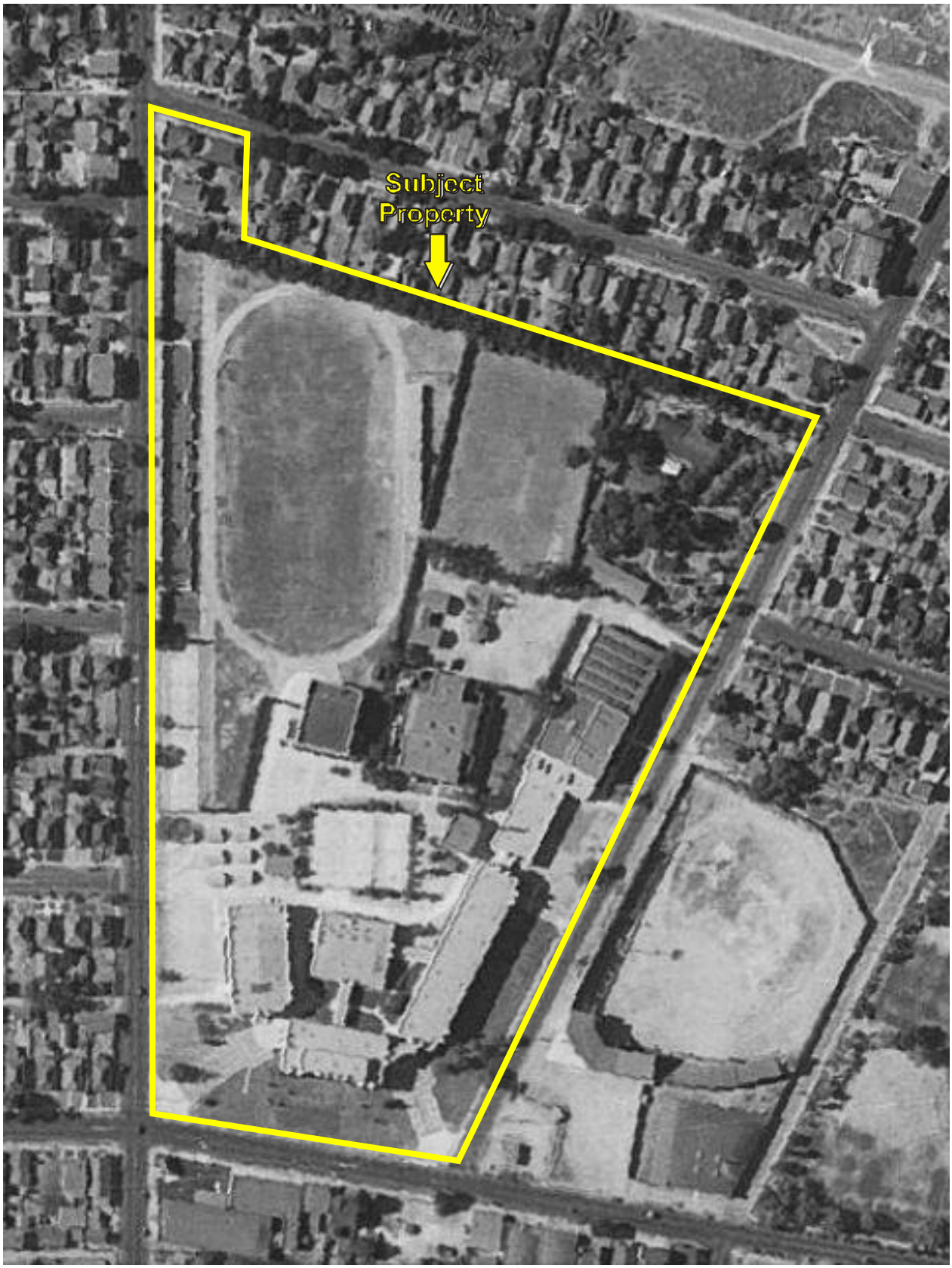
APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION

PARTNER

Date of Photograph: 1923

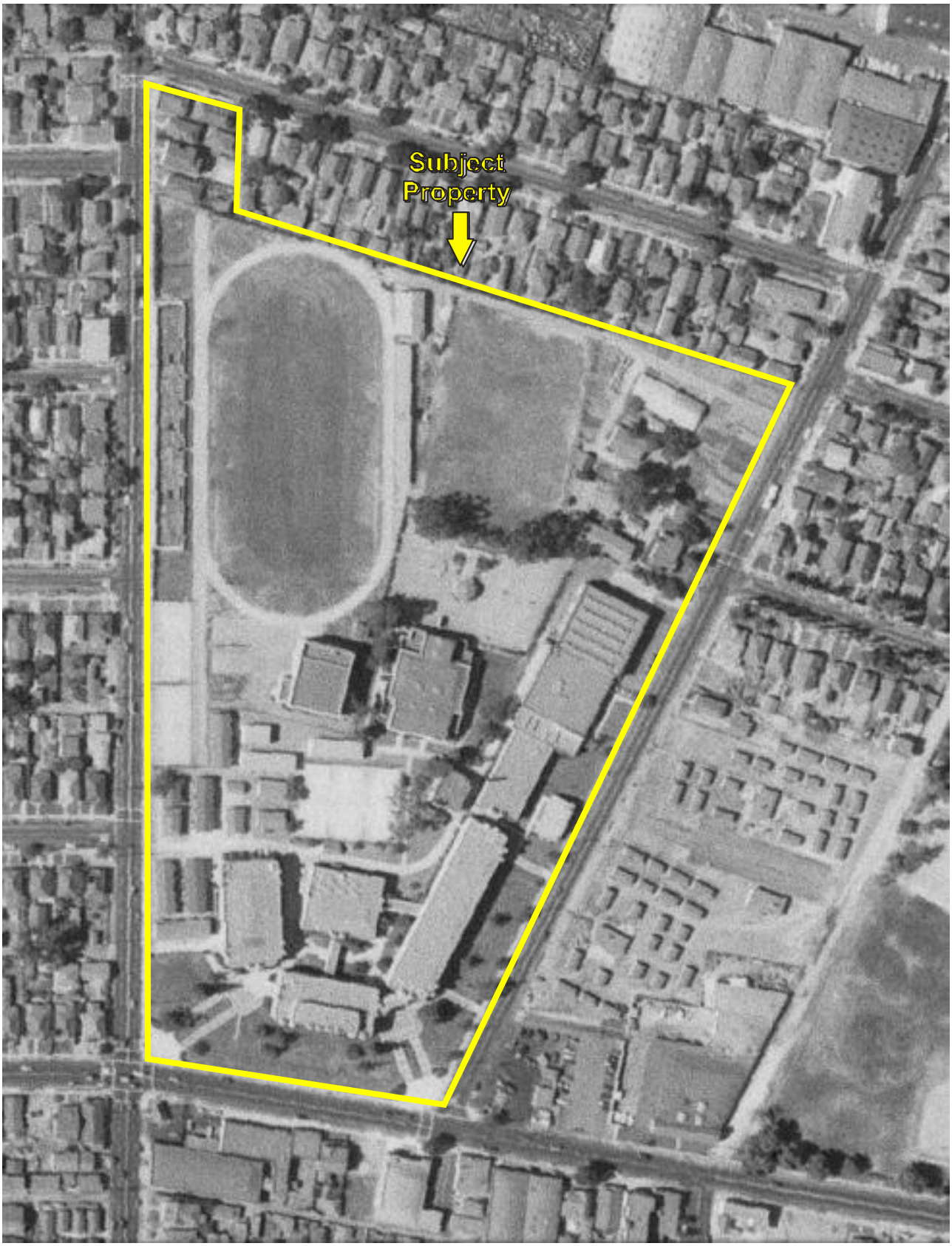


Date of Photograph: 1928



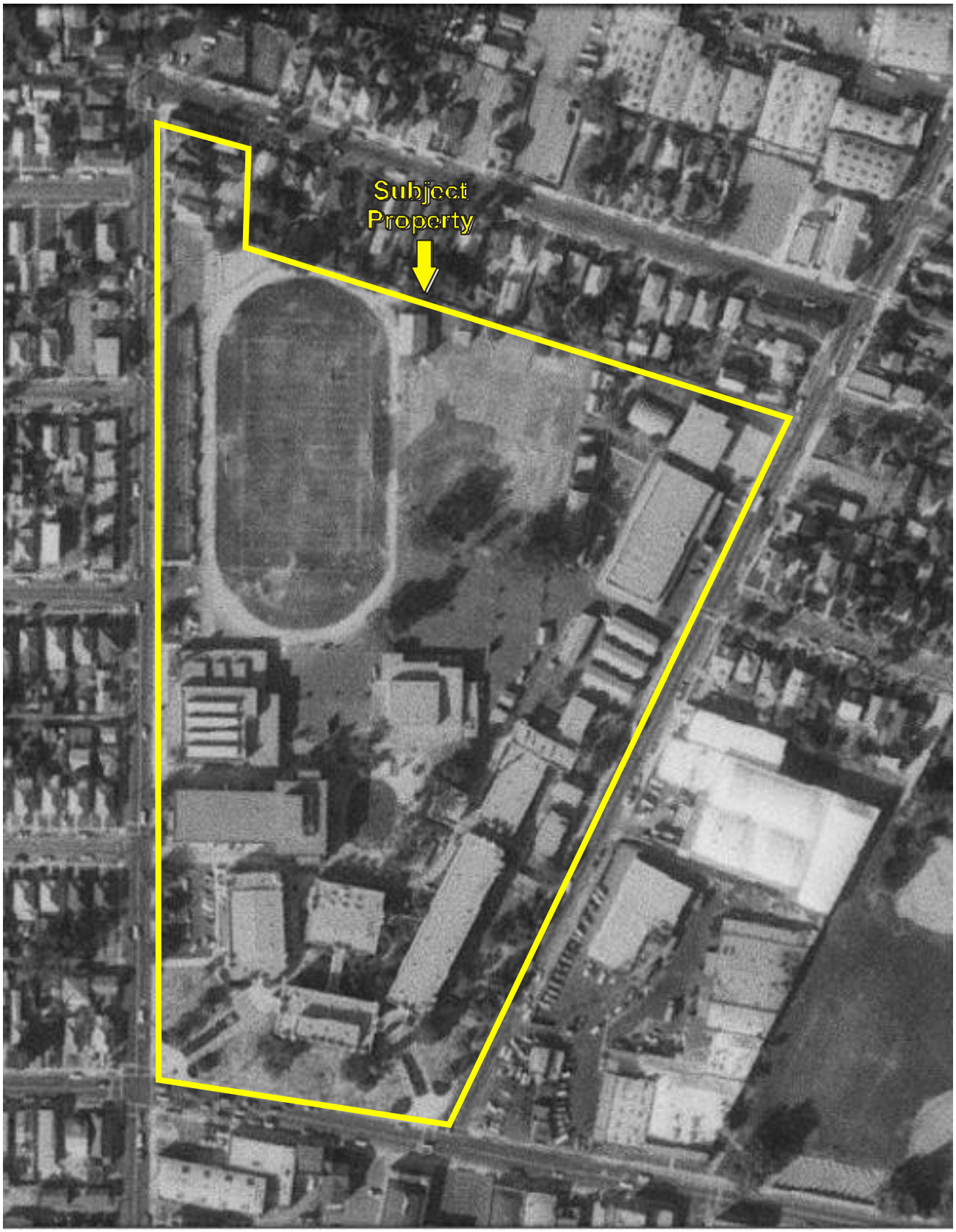
Date of Photograph: 1938

Date of Photograph: 1948



Date of Photograph: 1952

Date of Photograph: 1964



Date of Photograph: 1972

Date of Photograph: 1985

Date of Photograph: 1989

Date of Photograph: 1994

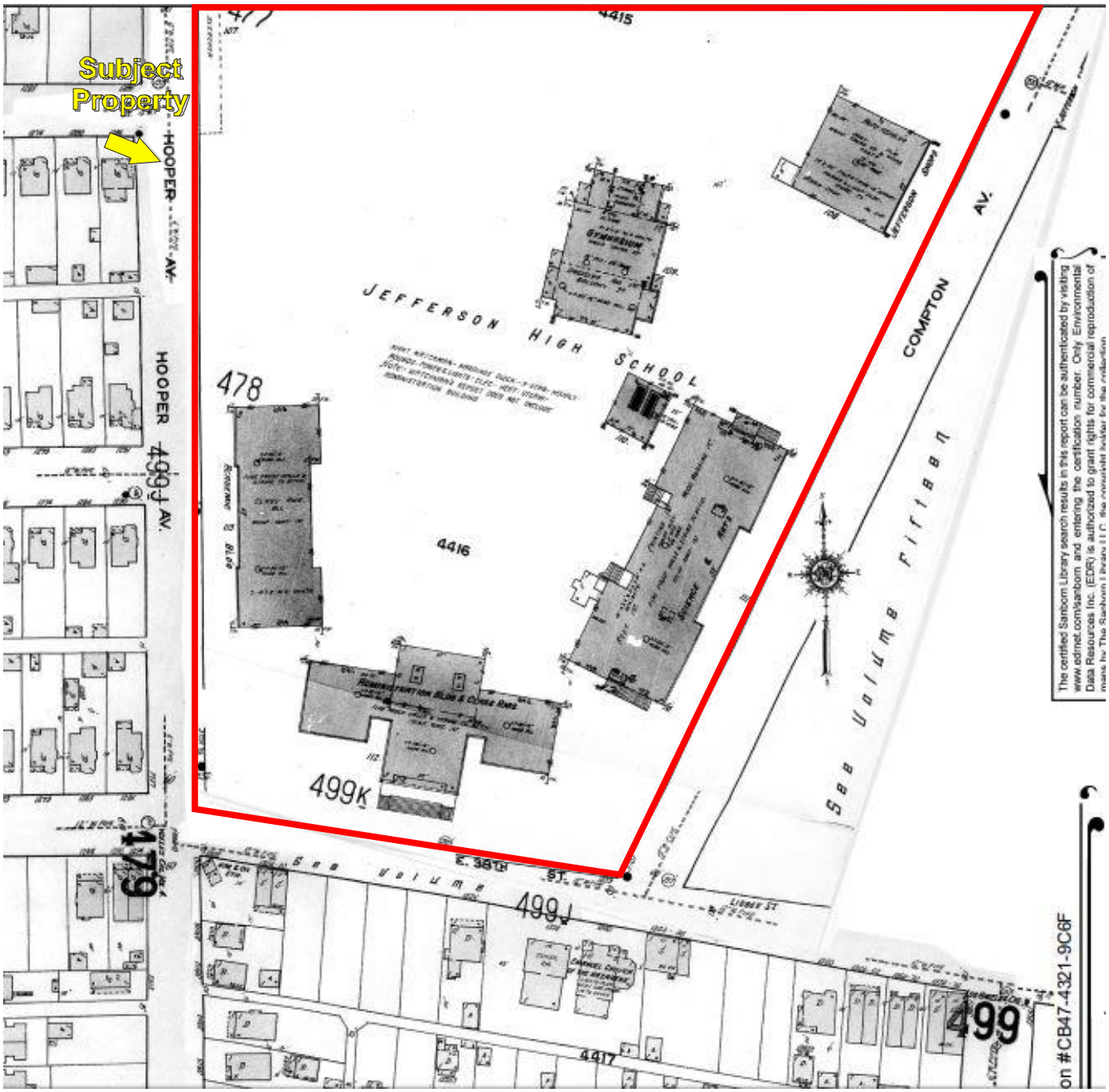
Date of Photograph: 2002

Date of Photograph: 2005

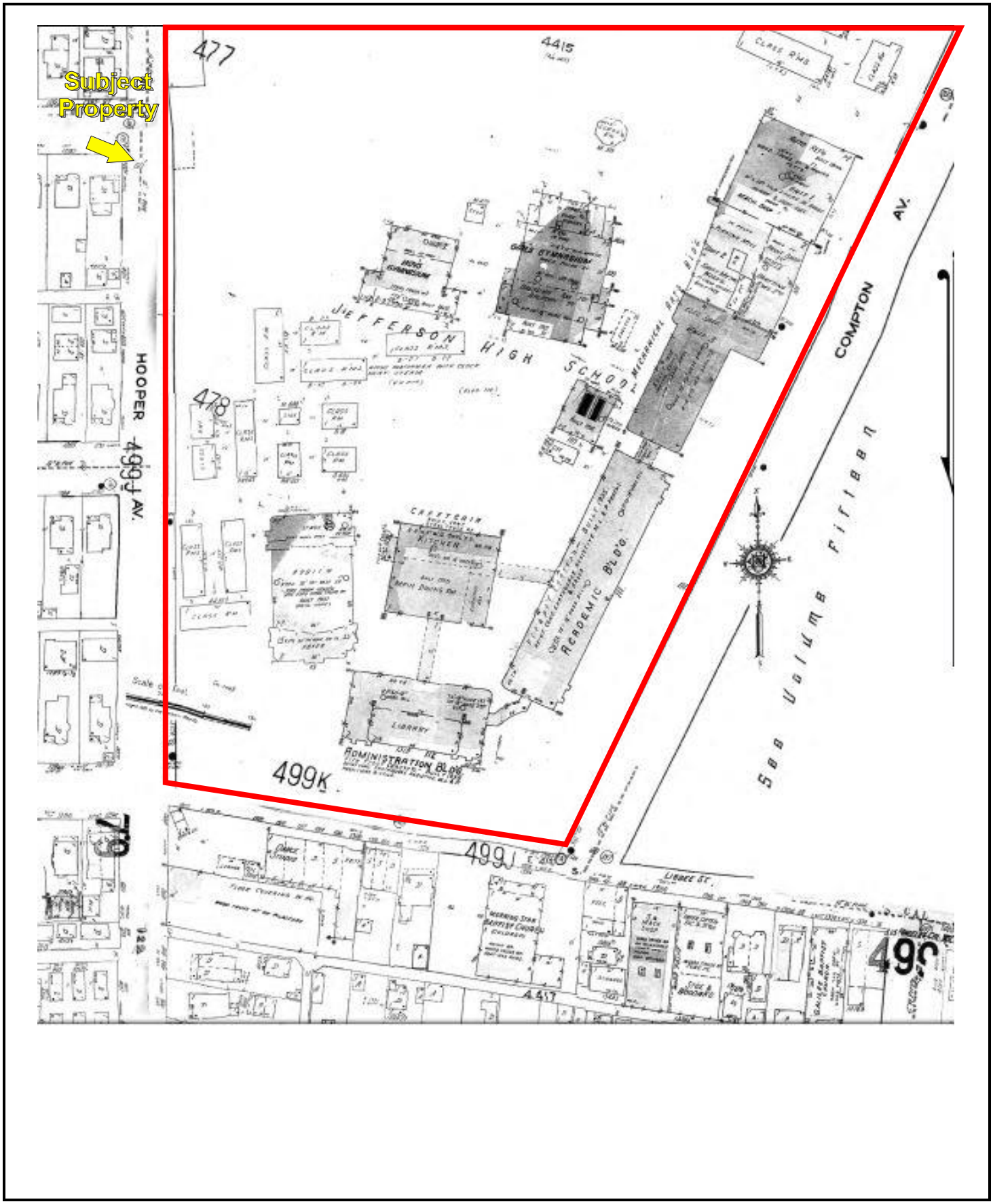
Date of Photograph: 2009

Date of Photograph: 2010

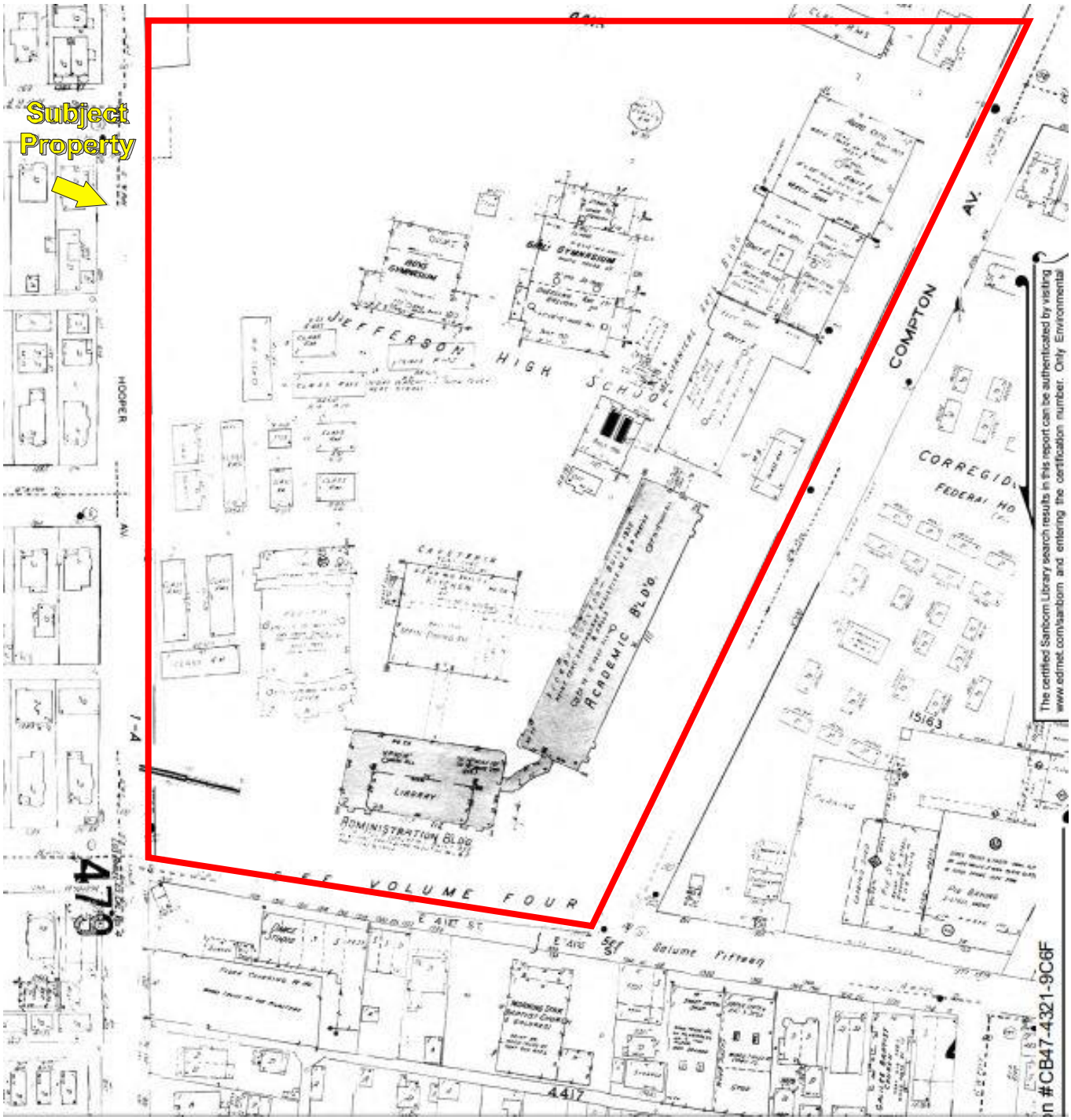
Date of Photograph: 2012



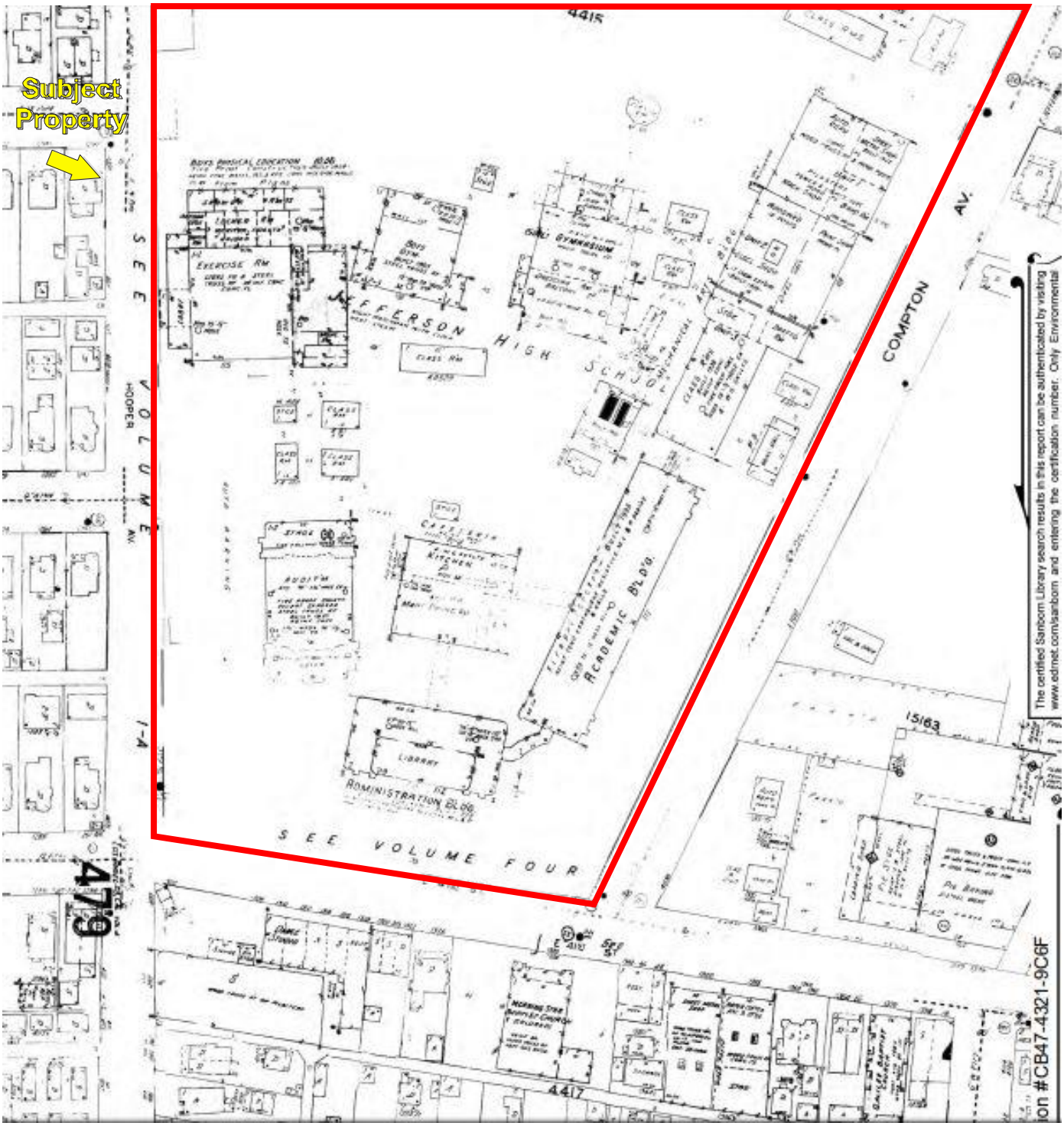
Date of Map: 1922



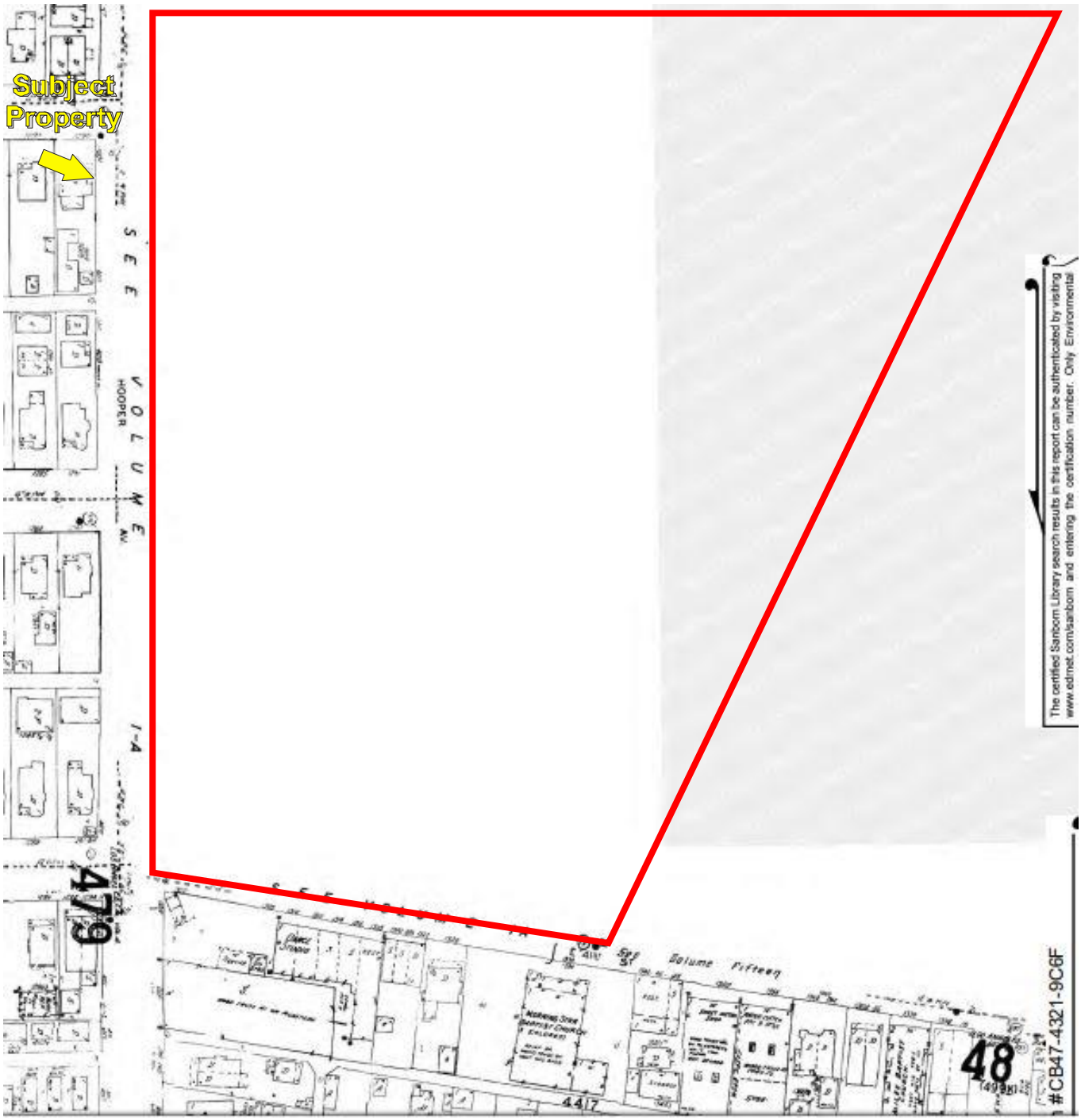
Date of Map: 1950



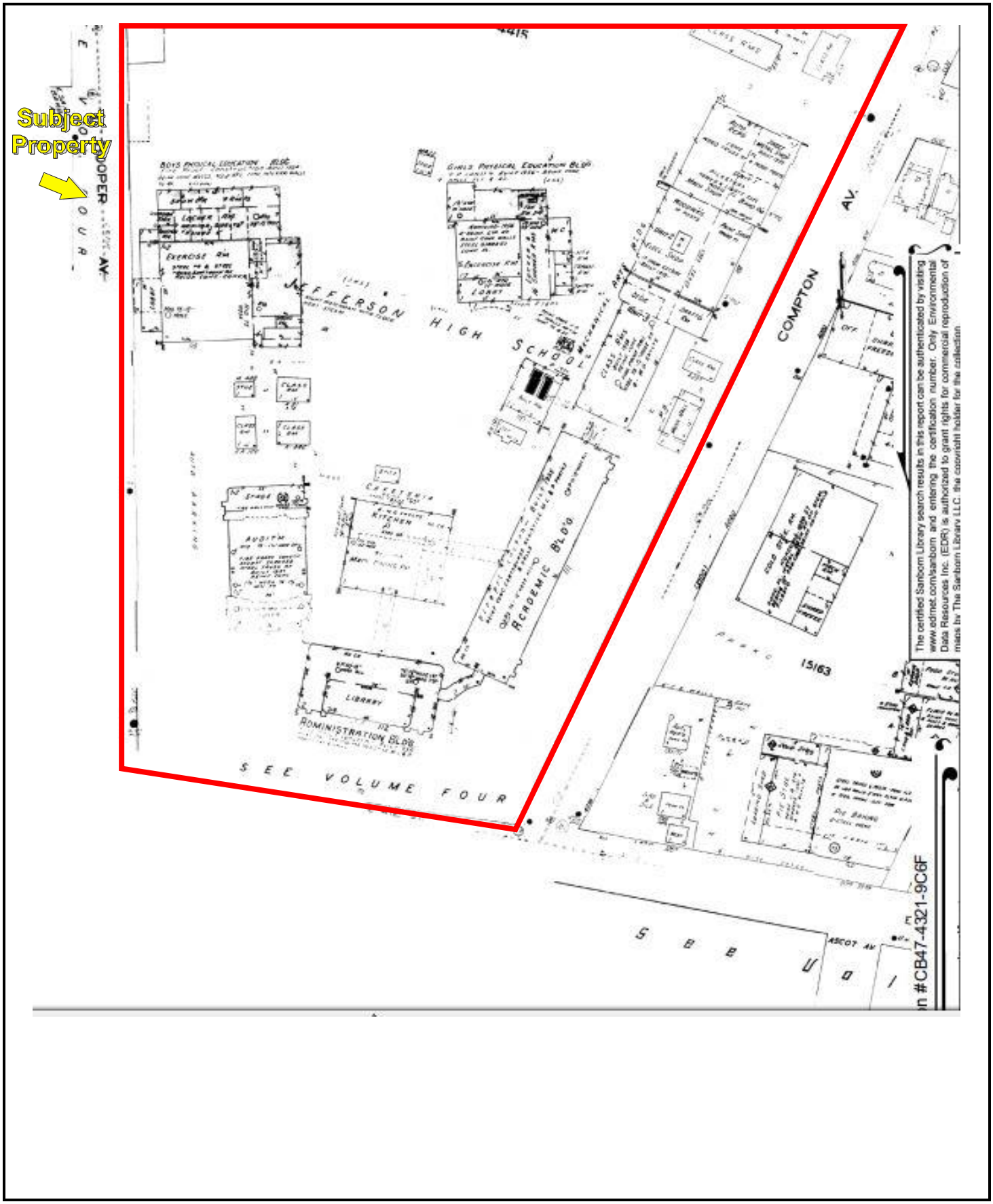
Date of Map: 1953



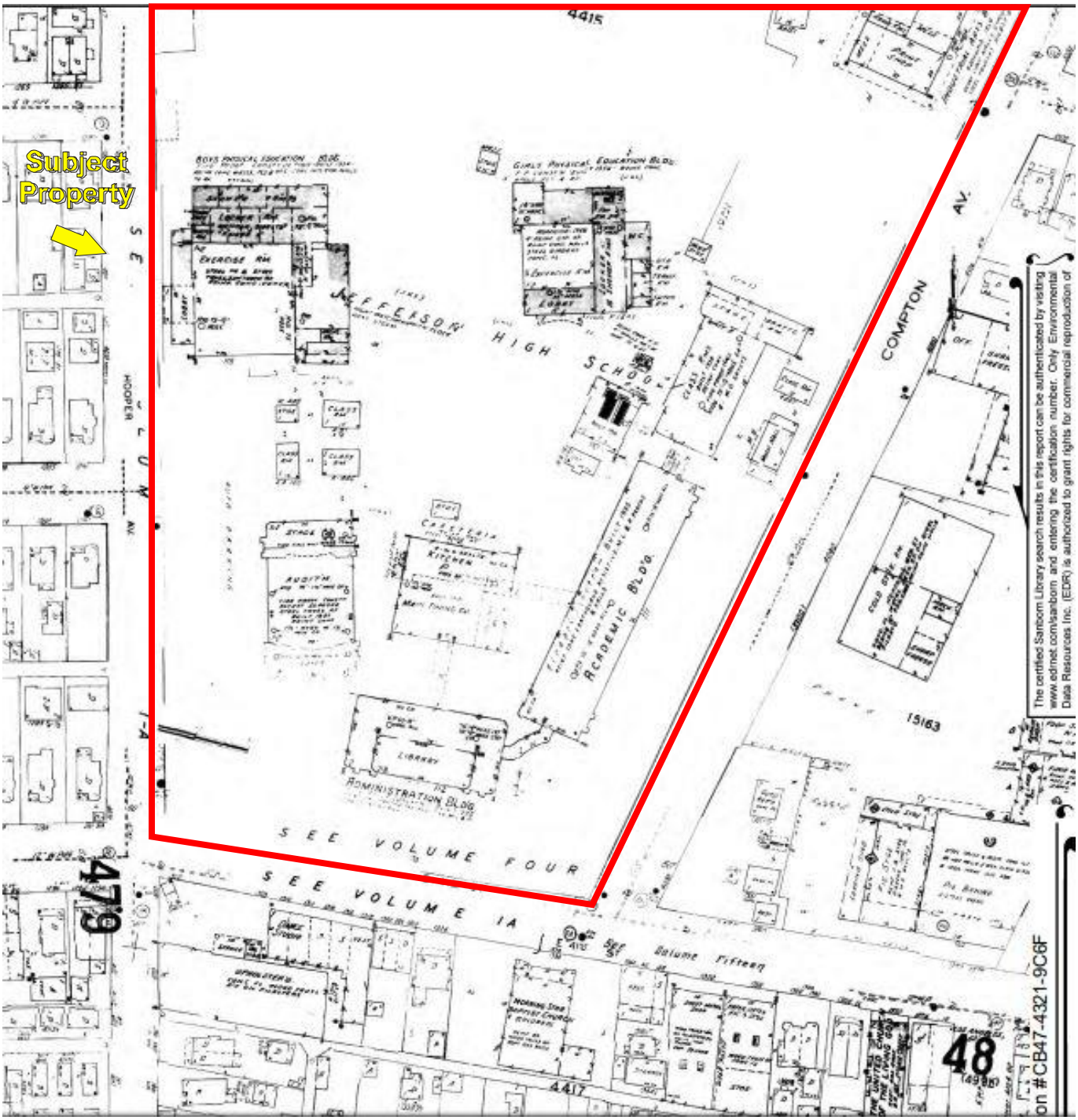
Date of Map: 1954



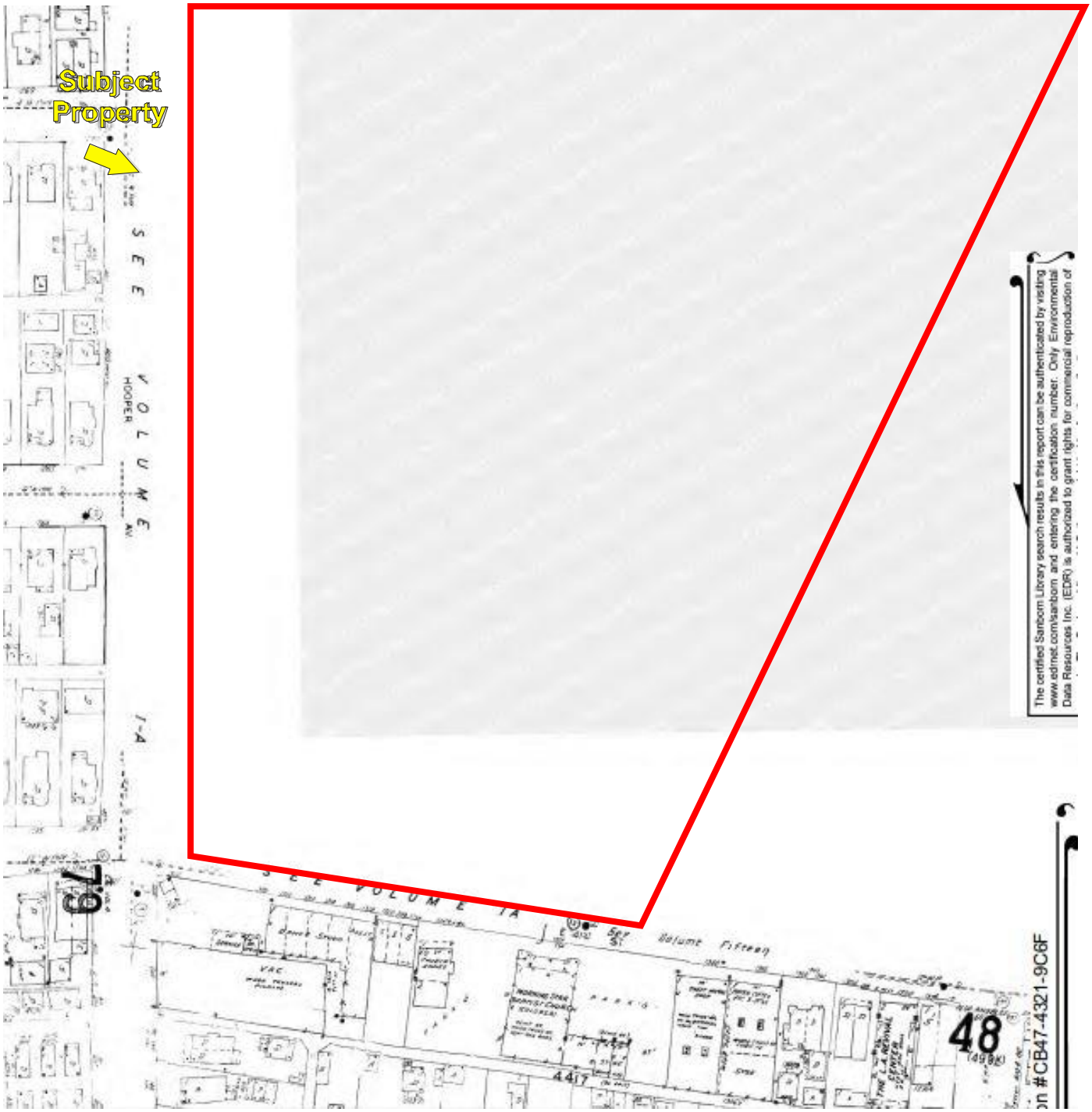
Date of Map: 1955



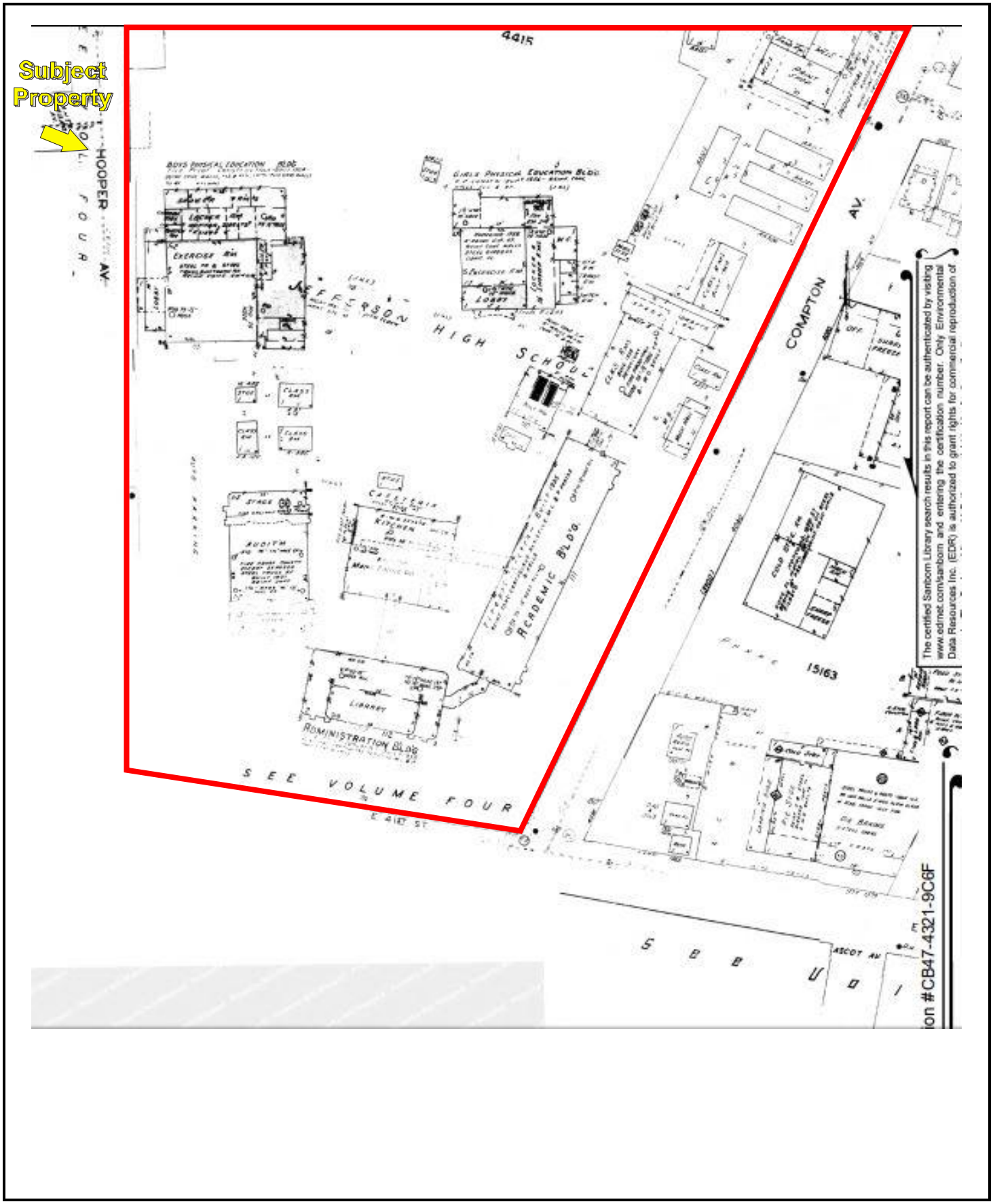
Date of Map: 1958



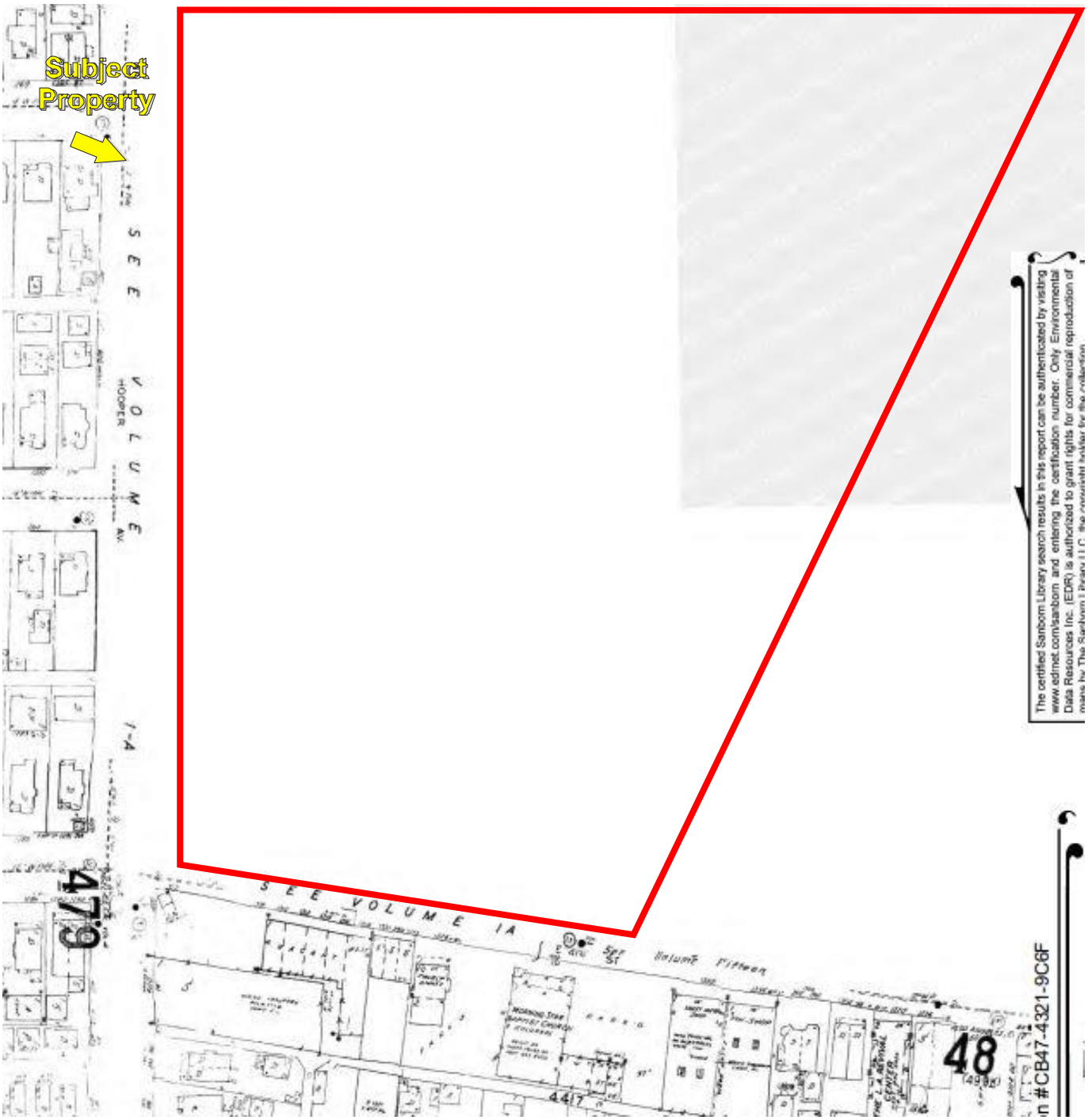
Date of Map: 1960



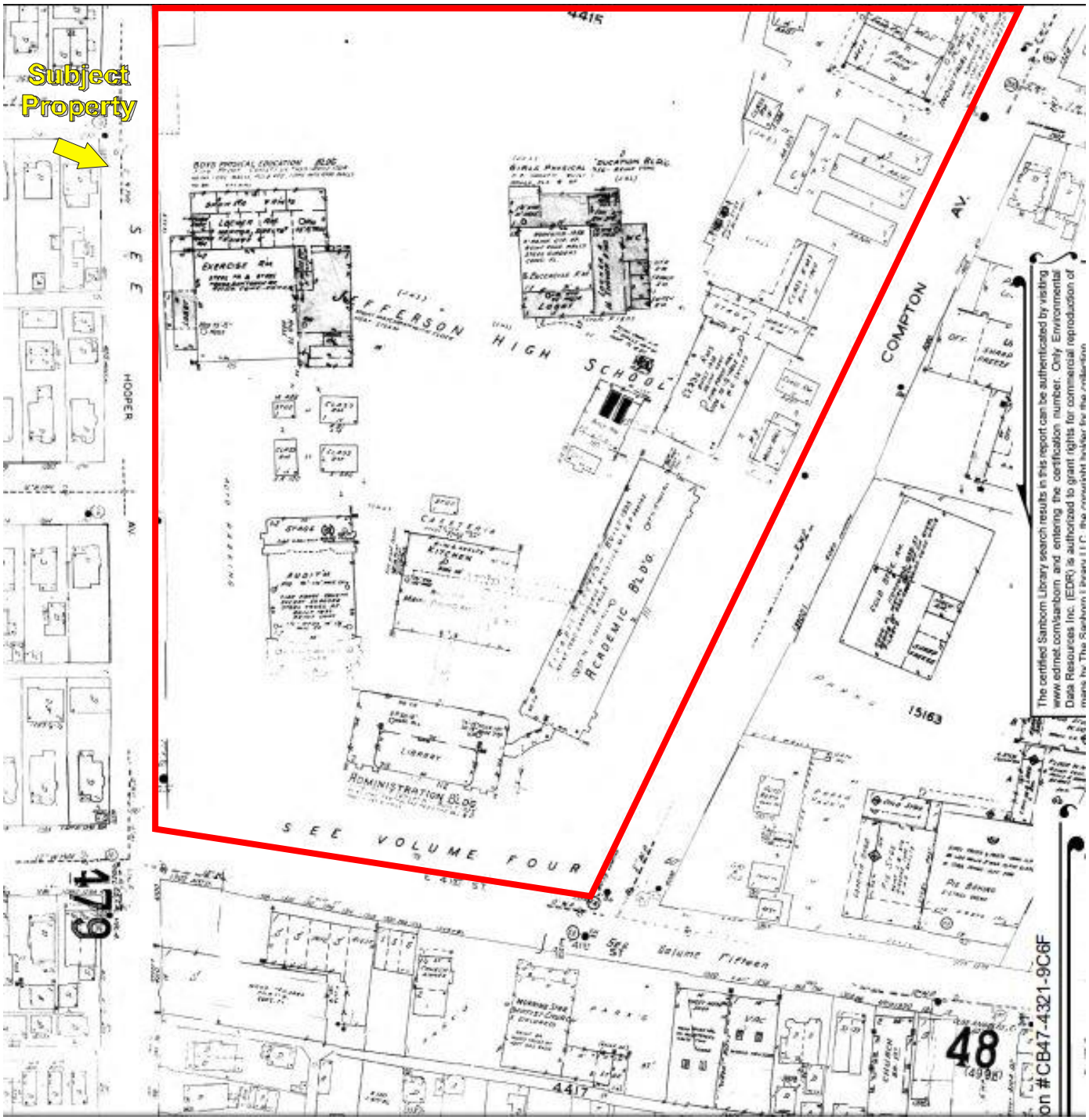
Date of Map: 1962



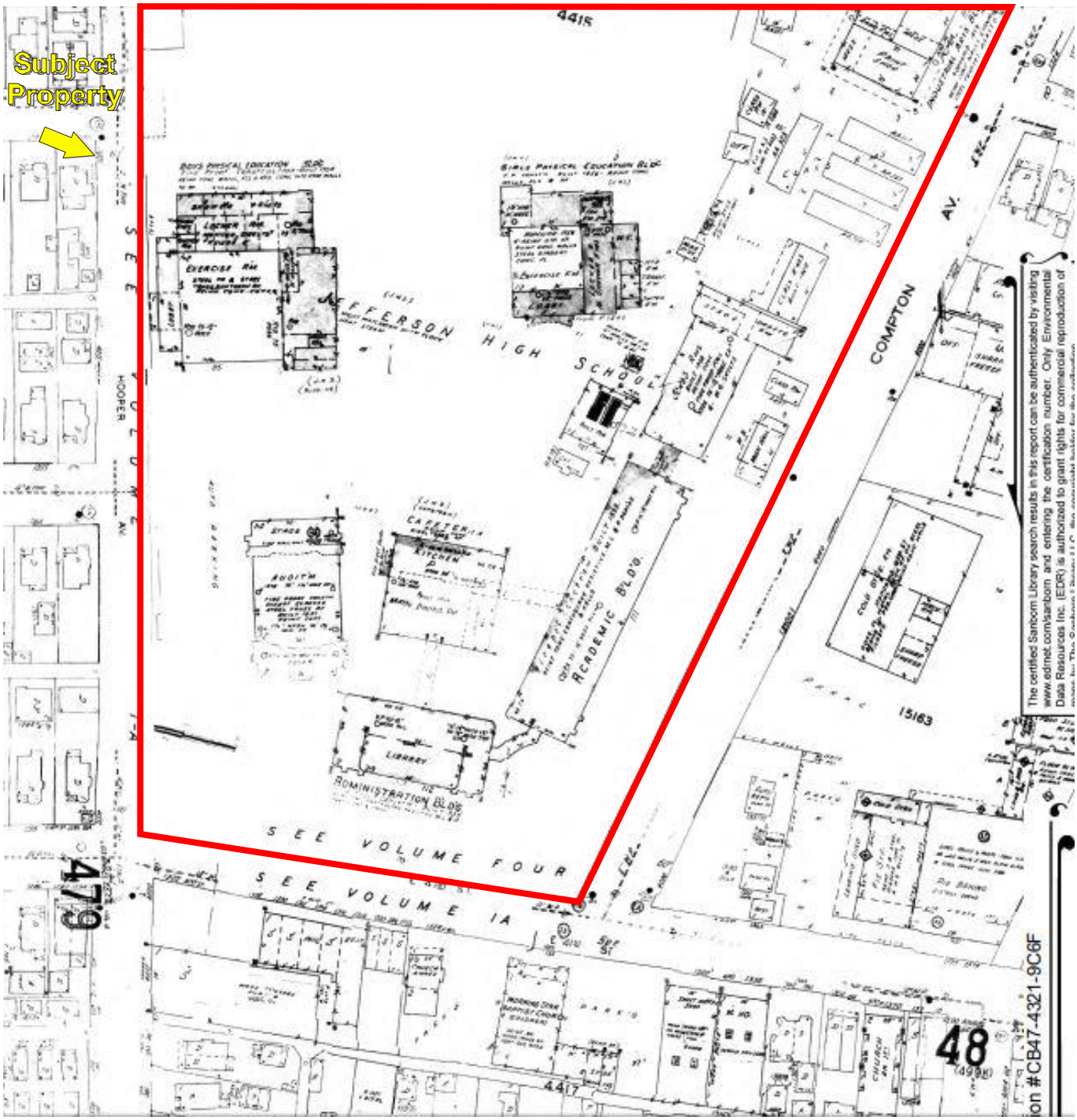
Date of Map: 1963



Date of Map: 1966

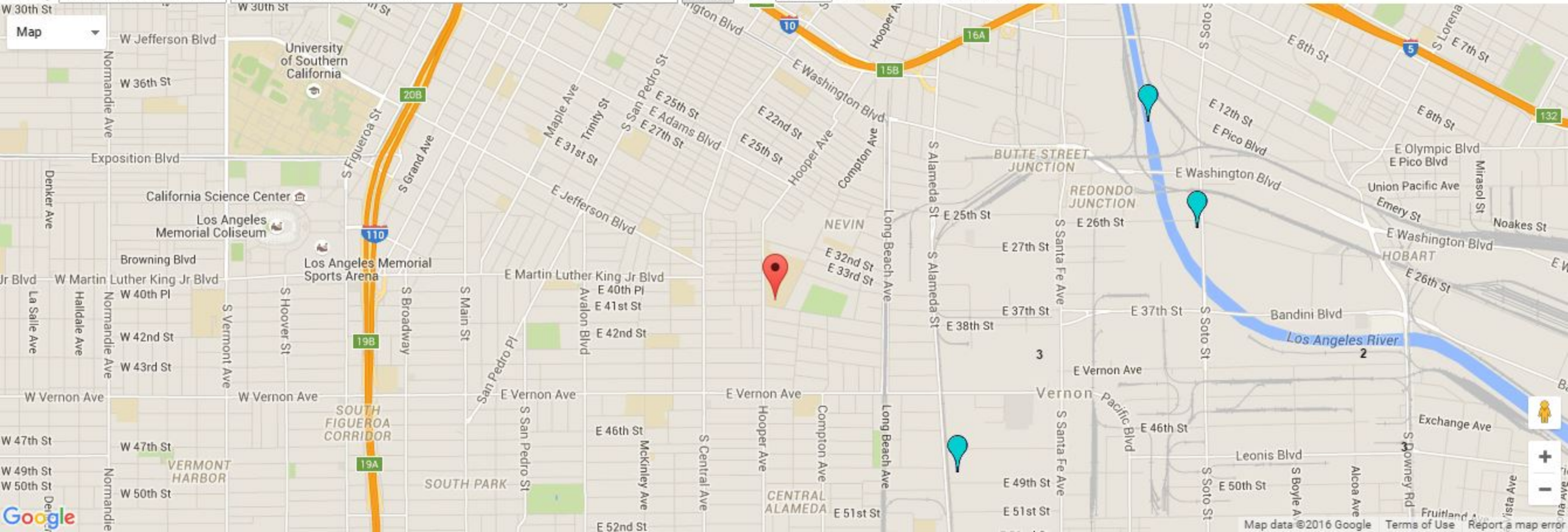


Date of Map: 1968



Date of Map: 1970

Search By: Address/Intersection 1319 east 41st Street 90011 Search Buffer: None Active Wells Inactive Wells



WELL_ID	ACTIVE	STATE_WELL_ID	MEASURE_DATE	RP_TO_WS	GS_ELEV	RP_ELEV	GS_TO_WS	WATER_SURFACE_ELEVATION	NO_MEASURE	QUESTIONABLE_MEASURE
1460X	1	2S13W15E02	9/22/2009		190	190.5			No additional measurement	
1460X	1	2S13W15E02	9/7/2006		190	190.5			Dry (for O.S. Meas. Only)	
1460X	1	2S13W15E02	2/3/2005	195	190	190.5	194.5	-4.5		
1460X	1	2S13W15E02	8/11/2004	205	190	190.5	204.5	-14.5		
1460X	1	2S13W15E02	3/1/2004	205	190	190.5	204.5	-14.5		
1460X	1	2S13W15E02	11/10/2003	205	190	190.5	204.5	-14.5		
1460X	1	2S13W15E02	4/28/2003	201	190	190.5	200.5	-10.5		
1460X	1	2S13W15E02	11/14/2002	203	190	190.5	202.5	-12.5		
1460X	1	2S13W15E02	3/27/2002	211	190	190.5	210.5	-20.5		
1460X	1	2S13W15E02	3/13/2001	215	190	190.5	214.5	-24.5		
1460X	1	2S13W15E02	12/12/2000	210	190	190.5	209.5	-19.5		Air or pressure gage
1460X	1	2S13W15E02	6/13/2000	210	190	190.5	209.5	-19.5		
1460X	1	2S13W15E02	12/6/1999	203	190	190.5	202.5	-12.5		
1460X	1	2S13W15E02	6/16/1999	208	190	190.5	207.5	-17.5		
1460X	1	2S13W15E02	10/1/1996	203.5	190	190.5	203	-13		Air or pressure gage
1460X	1	2S13W15E02	6/14/1995	226	190	190.5	225.5	-35.5		Air or pressure gage
1460X	1	2S13W15E02	11/15/1992	226	190	190.5	225.5	-35.5		Air or pressure gage
1460X	1	2S13W15E02	5/21/1992		190	190.5			No additional measurement	
1460X	1	2S13W15E02	11/30/1990	251	190	190.5	250.5	-60.5		Air or pressure gage
1460X	1	2S13W15E02	5/15/1990	251	190	190.5	250.5	-60.5		Air or pressure gage
1460X	1	2S13W15E02	10/31/1989	238	190	190.5	237.5	-47.5		Air or pressure gage
1460X	1	2S13W15E02	3/30/1989	238	190	190.5	237.5	-47.5		Air or pressure gage
1460X	1	2S13W15E02	4/30/1988	234	190	190.5	233.5	-43.5		Air or pressure gage
1460X	1	2S13W15E02	10/30/1987	244	190	190.5	243.5	-53.5		Air or pressure gage
1460X	1	2S13W15E02	4/15/1987	240	190	190.5	239.5	-49.5		Air or pressure gage
1460X	1	2S13W15E02	10/15/1986	244	190	190.5	243.5	-53.5		Air or pressure gage
1460X	1	2S13W15E02	10/15/1984	260	190	190.5	259.5	-69.5		Air or pressure gage
1460X	1	2S13W15E02	11/15/1983	250	190	190.5	249.5	-59.5		Air or pressure gage
1460X	1	2S13W15E02	4/15/1983	248	190	190.5	247.5	-57.5		Air or pressure gage
1460X	1	2S13W15E02	11/15/1982	250	190	190.5	249.5	-59.5		Air or pressure gage
1460X	1	2S13W15E02	4/16/1982	246	190	190.5	245.5	-55.5		Air or pressure gage
1460X	1	2S13W15E02	10/30/1981	254	190	190.5	253.5	-63.5		Air or pressure gage
1460X	1	2S13W15E02	4/30/1981	252	190	190.5	251.5	-61.5		Air or pressure gage
1460X	1	2S13W15E02	10/29/1979	267	190	190.5	266.5	-76.5		Air or pressure gage
1460X	1	2S13W15E02	4/20/1979	260	190	190.5	259.5	-69.5		Air or pressure gage

WELL_ID	ACTIVE	STATE_WELL_ID	MEASURE_DATE	RP_TO_WS	GS_ELEV	RP_ELEV	GS_TO_WS	WATER_SURFACE_ELEVATION	NO_MEASURE	QUESTIONABLE_MEASURE
2778	1	2S13W10A01	4/14/2016	245.1	218.8	222.7		-22.4		
2778	1	2S13W10A01	3/10/2016	244.7	218.8	222.7		-22		
2778	1	2S13W10A01	2/18/2016	243.9	218.8	222.7		-21.2		
2778	1	2S13W10A01	1/11/2016	244.5	218.8	222.7		-21.8		
2778	1	2S13W10A01	12/14/2015	245	218.8	222.7		-22.3		
2778	1	2S13W10A01	11/12/2015	245.7	218.8	222.7		-23		
2778	1	2S13W10A01	10/15/2015	246	218.8	222.7		-23.3		
2778	1	2S13W10A01	9/14/2015	244.7	218.8	222.7		-22		
2778	1	2S13W10A01	8/14/2015	244.8	218.8	222.7		-22.1		
2778	1	2S13W10A01	6/11/2015	247	218.8	222.7		-24.3		
2778	1	2S13W10A01	5/20/2015	245.8	218.8	222.7		-23.1		
2778	1	2S13W10A01	4/15/2015	244.1	218.8	222.7		-21.4		
2778	1	2S13W10A01	3/18/2015	244.8	218.8	222.7		-22.1		
2778	1	2S13W10A01	2/12/2015	244.3	218.8	222.7		-21.6		
2778	1	2S13W10A01	1/20/2015	245.4	218.8	222.7		-22.7		
2778	1	2S13W10A01	12/10/2014	243.9	218.8	222.7		-21.2		
2778	1	2S13W10A01	11/19/2014	243.9	218.8	222.7		-21.2		
2778	1	2S13W10A01	10/16/2014	245.1	218.8	222.7		-22.4		
2778	1	2S13W10A01	9/18/2014	244.4	218.8	222.7		-21.7		
2778	1	2S13W10A01	8/14/2014	244.1	218.8	222.7		-21.4		
2778	1	2S13W10A01	7/15/2014	244.4	218.8	222.7		-21.7		
2778	1	2S13W10A01	6/19/2014	244	218.8	222.7		-21.3		
2778	1	2S13W10A01	5/13/2014	242.6	218.8	222.7		-19.9		
2778	1	2S13W10A01	4/17/2014	242.6	218.8	222.7		-19.9		
2778	1	2S13W10A01	3/14/2014	241.6	218.8	222.7		-18.9		
2778	1	2S13W10A01	2/20/2014	241.4	218.8	222.7		-18.7		
2778	1	2S13W10A01	1/10/2014	240.4	218.8	222.7		-17.7		
2778	1	2S13W10A01	12/13/2013	240.9	218.8	222.7		-18.2		
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2778	1	2S13W10A01	10/18/2013	241.6	218.8	222.7		-18.9		
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2778	1	2S13W10A01	5/17/2013	240.6	218.8	222.7		-17.9		
2778	1	2S13W10A01	4/17/2013	239.5	218.8	222.7		-16.8		
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2778	1	2S13W10A01	12/14/2012	237.4	218.8	222.7		-14.7		
2778	1	2S13W10A01	11/20/2012	239.9	218.8	222.7		-17.2		

2778	1	2S13W10A01	10/19/2012	239.3	218.8	222.7		-16.6		
2778	1	2S13W10A01	9/14/2012	240	218.8	222.7		-17.3		
2778	1	2S13W10A01	8/10/2012	238.9	218.8	222.7		-16.2		
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2778	1	2S13W10A01	4/20/2012	238	218.8	222.7		-15.3		
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2778	1	2S13W10A01	2/22/2012	237.1	218.8	222.7		-14.4		
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2778	1	2S13W10A01	11/17/2011	238.4	218.8	222.7		-15.7		
2778	1	2S13W10A01	10/14/2011	239.3	218.8	222.7		-16.6		
2778	1	2S13W10A01	9/16/2011	238.5	218.8	222.7		-15.8		
2778	1	2S13W10A01	8/19/2011	238.3	218.8	222.7		-15.6		
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2778	1	2S13W10A01	6/20/2011	239	218.8	222.7		-16.3		
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2778	1	2S13W10A01	4/21/2011	240.4	218.8	222.7		-17.7		
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2778	1	2S13W10A01	1/20/2011	242.9	218.8	222.7	239	-20.2		
2778	1	2S13W10A01	12/20/2010	243.3	218.8	222.7	239.4	-20.6		
2778	1	2S13W10A01	11/18/2010	243.8	218.8	222.7	239.9	-21.1		
2778	1	2S13W10A01	10/20/2010	244.2	218.8	222.7	240.3	-21.5		
2778	1	2S13W10A01	9/15/2010	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	8/16/2010	241.9	218.8	222.7	238	-19.2		
2778	1	2S13W10A01	7/24/2010	243.7	218.8	222.7	239.8	-21		
2778	1	2S13W10A01	6/22/2010	244.5	218.8	222.7	240.6	-21.8		
2778	1	2S13W10A01	5/15/2010	244.1	218.8	222.7	240.2	-21.4		
2778	1	2S13W10A01	4/15/2010	244	218.8	222.7	240.1	-21.3		
2778	1	2S13W10A01	3/17/2010	243.8	218.8	222.7	239.9	-21.1		
2778	1	2S13W10A01	2/19/2010	244.6	218.8	222.7	240.7	-21.9		
2778	1	2S13W10A01	1/15/2010	242.9	218.8	222.7	239	-20.2		
2778	1	2S13W10A01	1/4/2010	244.2	218.8	222.7	240.3	-21.5		
2778	1	2S13W10A01	12/17/2009	243.8	218.8	222.7	239.9	-21.1		
2778	1	2S13W10A01	11/23/2009	244.6	218.8	222.7	240.7	-21.9		
2778	1	2S13W10A01	10/24/2009	244.4	218.8	222.7	240.5	-21.7		
2778	1	2S13W10A01	9/14/2009	243.7	218.8	222.7	239.8	-21		
2778	1	2S13W10A01	8/24/2009	242.3	218.8	222.7	238.4	-19.6		
2778	1	2S13W10A01	8/3/2009	243.2	218.8	222.7	239.3	-20.5		
2778	1	2S13W10A01	7/22/2009	243.9	218.8	222.7	240	-21.2		

2778	1	2S13W10A01	7/6/2009	243.9	218.8	222.7	240	-21.2		
2778	1	2S13W10A01	6/23/2009	245.2	218.8	222.7	241.3	-22.5		
2778	1	2S13W10A01	5/22/2009	244	218.8	222.7	240.1	-21.3		
2778	1	2S13W10A01	4/22/2009	242.9	218.8	222.7	239	-20.2		
2778	1	2S13W10A01	3/24/2009	242.6	218.8	222.7	238.7	-19.9		
2778	1	2S13W10A01	2/21/2009	242.6	218.8	222.7	238.7	-19.9		
2778	1	2S13W10A01	1/22/2009	241.9	218.8	222.7	238	-19.2		
2778	1	2S13W10A01	1/22/2009	241.9	218.8	222.7	238	-19.2		
2778	1	2S13W10A01	12/20/2008	242.8	218.8	222.7	238.9	-20.1		
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2778	1	2S13W10A01	11/22/2008	243.7	218.8	222.7	239.8	-21		
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2778	1	2S13W10A01	10/19/2008	245.2	218.8	222.7	241.3	-22.5		
2778	1	2S13W10A01	9/24/2008	245.5	218.8	222.7	241.6	-22.8		
2778	1	2S13W10A01	9/8/2008	243.4	218.8	222.7	239.5	-20.7		
2778	1	2S13W10A01	8/22/2008	244.1	218.8	222.7	240.2	-21.4		
2778	1	2S13W10A01	8/11/2008	242.2	218.8	222.7	238.3	-19.5		
2778	1	2S13W10A01	7/20/2008	243.5	218.8	222.7	239.6	-20.8		
2778	1	2S13W10A01	7/7/2008	241.5	218.8	222.7	237.6	-18.8		
2778	1	2S13W10A01	6/18/2008	242.9	218.8	222.7	239	-20.2		
2778	1	2S13W10A01	6/2/2008	242.1	218.8	222.7	238.2	-19.4		
2778	1	2S13W10A01	5/20/2008	242.5	218.8	222.7	238.6	-19.8		
2778	1	2S13W10A01	4/22/2008	241.8	218.8	222.7	237.99	-19.1		
2778	1	2S13W10A01	3/23/2008	241.4	218.8	222.7	237.5	-18.7		
2778	1	2S13W10A01	3/17/2008	241.5	218.8	222.7	237.6	-18.8		
2778	1	2S13W10A01	2/15/2008	241.9	218.8	222.7	238	-19.2		
2778	1	2S13W10A01	1/22/2008	242.2	218.8	222.7	238.3	-19.5		
2778	1	2S13W10A01	10/24/2007	242	218.8	222.7	238.1	-19.3		
2778	1	2S13W10A01	9/14/2007	242	218.8	222.7	238.1	-19.3		
2778	1	2S13W10A01	9/14/2007	241.5	218.8	222.7	237.6	-18.8		
2778	1	2S13W10A01	8/23/2007	240.9	218.8	222.7	237	-18.2		
2778	1	2S13W10A01	7/20/2007	239.9	218.8	222.7	236	-17.2		
2778	1	2S13W10A01	6/18/2007	239.6	218.8	222.7	235.7	-16.9		
2778	1	2S13W10A01	5/22/2007	238.8	218.8	222.7	234.9	-16.1		
2778	1	2S13W10A01	4/16/2007	239.9	218.8	222.7	236	-17.2		
2778	1	2S13W10A01	3/11/2007	239.8	218.8	222.7	235.9	-17.1		
2778	1	2S13W10A01	2/20/2007	240.1	218.8	222.7	236.2	-17.4		
2778	1	2S13W10A01	1/18/2007	240.3	218.8	222.7	236.4	-17.6		
2778	1	2S13W10A01	12/21/2006	241.5	218.8	222.7	237.6	-18.8		
2778	1	2S13W10A01	11/18/2006	239.5	218.8	222.7	235.6	-16.8		
2778	1	2S13W10A01	10/23/2006	242.1	218.8	222.7	238.2	-19.4		
2778	1	2S13W10A01	9/23/2006	240.5	218.8	222.7	236.6	-17.8		

2778	1	2S13W10A01	8/18/2006	240.2	218.8	222.7	236.3	-17.5		
2778	1	2S13W10A01	7/23/2006	241.2	218.8	222.7	237.3	-18.5		
2778	1	2S13W10A01	6/23/2006	241.3	218.8	222.7	237.4	-18.6		
2778	1	2S13W10A01	5/24/2006	239.1	218.8	222.7	235.2	-16.4		
2778	1	2S13W10A01	4/20/2006	242	218.8	222.7	238.1	-19.3		
2778	1	2S13W10A01	3/22/2006	240.4	218.8	222.7	236.5	-17.7		
2778	1	2S13W10A01	3/22/2006	240.4	218.8	222.7	236.5	-17.7		
2778	1	2S13W10A01	2/22/2006	242.7	218.8	222.7	238.8	-20		
2778	1	2S13W10A01	1/23/2006	242.6	218.8	222.7	238.7	-19.9		
2778	1	2S13W10A01	12/26/2005	240.1	218.8	222.7	236.2	-17.4		
2778	1	2S13W10A01	12/26/2005	240.1	218.8	222.7	236.2	-17.4		
2778	1	2S13W10A01	11/18/2005	242	218.8	222.7	238.1	-19.3		
2778	1	2S13W10A01	10/20/2005	241.1	218.8	222.7	237.2	-18.4		
2778	1	2S13W10A01	9/18/2005	242	218.8	222.7	238.1	-19.3		
2778	1	2S13W10A01	8/14/2005	244.9	218.8	222.7	241	-22.2		
2778	1	2S13W10A01	7/20/2005	244	218.8	222.7	240.1	-21.3		
2778	1	2S13W10A01	6/15/2005	242.4	218.8	222.7	238.5	-19.7		
2778	1	2S13W10A01	5/22/2005	243.5	218.8	222.7	239.6	-20.8		
2778	1	2S13W10A01	4/23/2005	243.1	218.8	222.7	239.2	-20.4		
2778	1	2S13W10A01	3/23/2005	243.9	218.8	222.7	240	-21.2		
2778	1	2S13W10A01	1/17/2005	244.1	218.8	222.7	240.2	-21.4		
2778	1	2S13W10A01	12/23/2004	248.8	218.8	222.7	244.9	-26.1		
2778	1	2S13W10A01	11/18/2004	247.2	218.8	222.7	243.3	-24.5		
2778	1	2S13W10A01	11/18/2004	247.2	218.8	222.7	243.3	-24.5		
2778	1	2S13W10A01	10/19/2004	250.5	218.8	222.7	246.6	-27.8		
2778	1	2S13W10A01	9/21/2004	248.5	218.8	222.7	244.6	-25.8		
2778	1	2S13W10A01	8/22/2004	249.5	218.8	222.7	245.6	-26.8		
2778	1	2S13W10A01	7/19/2004	247.6	218.8	222.7	243.7	-24.9		
2778	1	2S13W10A01	6/22/2004	251.3	218.8	222.7	247.4	-28.6		
2778	1	2S13W10A01	5/22/2004	243.9	218.8	222.7	240	-21.2		
2778	1	2S13W10A01	4/22/2004	243.3	218.8	222.7	239.4	-20.6		
2778	1	2S13W10A01	3/22/2004	243.3	218.8	222.7	239.4	-20.6		
2778	1	2S13W10A01	2/22/2004	243.6	218.8	222.7	239.7	-20.9		
2778	1	2S13W10A01	1/19/2004	244.5	218.8	222.7	240.6	-21.8		
2778	1	2S13W10A01	12/16/2003	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	11/22/2003	244.5	218.8	222.7	240.6	-21.8		
2778	1	2S13W10A01	10/22/2003	253.1	218.8	222.7	249.2	-30.4		
2778	1	2S13W10A01	9/20/2003	246.6	218.8	222.7	242.7	-23.9		
2778	1	2S13W10A01	8/20/2003	243.5	218.8	222.7	239.6	-20.8		
2778	1	2S13W10A01	7/16/2003	244	218.8	222.7	240.1	-21.3		
2778	1	2S13W10A01	6/23/2003	244.3	218.8	222.7	240.4	-21.6		
2778	1	2S13W10A01	5/24/2003	244	218.8	222.7	240.1	-21.3		

2778	1	2S13W10A01	4/18/2003	244.7	218.8	222.7	240.8	-22		
2778	1	2S13W10A01	3/15/2003	246.5	218.8	222.7	242.6	-23.8		
2778	1	2S13W10A01	2/20/2003	245.3	218.8	222.7	241.4	-22.6		
2778	1	2S13W10A01	1/23/2003	242.9	218.8	222.7	239	-20.2		
2778	1	2S13W10A01	12/20/2002	245	218.8	222.7	241.1	-22.3		
2778	1	2S13W10A01	11/20/2002	251.7	218.8	222.7	247.8	-29		
2778	1	2S13W10A01	10/23/2002	251.5	218.8	222.7	247.6	-28.8		
2778	1	2S13W10A01	9/12/2002	251.8	218.8	222.7	247.9	-29.1		
2778	1	2S13W10A01	8/22/2002	250	218.8	222.7	246.1	-27.3		
2778	1	2S13W10A01	7/22/2002	249.6	218.8	222.7	245.7	-26.9		
2778	1	2S13W10A01	6/22/2002	248.4	218.8	222.7	244.5	-25.7		
2778	1	2S13W10A01	5/22/2002	243.2	218.8	222.7	239.3	-20.5		
2778	1	2S13W10A01	5/22/2002	243.2	218.8	222.7	239.3	-20.5		
2778	1	2S13W10A01	4/18/2002	247.1	218.8	222.7	243.2	-24.4		
2778	1	2S13W10A01	3/22/2002	246.9	218.8	222.7	243	-24.2		
2778	1	2S13W10A01	2/22/2002	246.1	218.8	222.7	242.2	-23.4		
2778	1	2S13W10A01	1/22/2002	242.9	218.8	222.7	239	-20.2		
2778	1	2S13W10A01	11/23/2001	242.7	218.8	222.7	238.8	-20		
2778	1	2S13W10A01	10/24/2001	245.5	218.8	222.7	241.6	-22.8		
2778	1	2S13W10A01	9/15/2001	251.9	218.8	222.7	248	-29.2		
2778	1	2S13W10A01	8/16/2001	250.3	218.8	222.7	246.4	-27.6		
2778	1	2S13W10A01	7/16/2001	248.5	218.8	222.7	244.6	-25.8		
2778	1	2S13W10A01	6/15/2001	245.5	218.8	222.7	241.6	-22.8		
2778	1	2S13W10A01	5/24/2001	240	218.8	222.7	236.1	-17.3		
2778	1	2S13W10A01	5/24/2001	240	218.8	222.7	236.1	-17.3		
2778	1	2S13W10A01	4/20/2001	239.5	218.8	222.7	235.6	-16.8		
2778	1	2S13W10A01	4/20/2001	239.5	218.8	222.7	235.6	-16.8		
2778	1	2S13W10A01	3/23/2001	239.2	218.8	222.7	235.3	-16.5		
2778	1	2S13W10A01	2/22/2001	242	218.8	222.7	238.1	-19.3		
2778	1	2S13W10A01	1/20/2001	240.9	218.8	222.7	237	-18.2		
2778	1	2S13W10A01	12/14/2000	246	218.8	222.7	242.1	-23.3		
2778	1	2S13W10A01	12/14/2000	246	218.8	222.7	242.1	-23.3		
2778	1	2S13W10A01	11/15/2000	244.2	218.8	222.7	240.3	-21.5		
2778	1	2S13W10A01	10/25/2000	244.6	218.8	222.7	240.7	-21.9		
2778	1	2S13W10A01	9/12/2000	246	218.8	222.7	242.1	-23.3		
2778	1	2S13W10A01	8/22/2000	245.7	218.8	222.7	241.8	-23		
2778	1	2S13W10A01	7/20/2000	245.4	218.8	222.7	241.5	-22.7		
2778	1	2S13W10A01	6/14/2000	245.5	218.8	222.7	241.6	-22.8		
2778	1	2S13W10A01	6/14/2000	245.5	218.8	222.7	241.6	-22.8		
2778	1	2S13W10A01	5/15/2000	241.9	218.8	222.7	238	-19.2		
2778	1	2S13W10A01	4/22/2000	234	218.8	222.7	230.1	-11.3		
2778	1	2S13W10A01	3/22/2000	235.4	218.8	222.7	231.5	-12.7		

2778	1	2S13W10A01	3/22/2000	235.4	218.8	222.7	231.5	-12.7		
2778	1	2S13W10A01	3/22/2000	235.4	218.8	222.7	231.5	-12.7		
2778	1	2S13W10A01	2/24/2000	260	218.8	222.7	256.1	-37.3		
2778	1	2S13W10A01	2/24/2000	260	218.8	222.7	256.1	-37.3		
2778	1	2S13W10A01	2/24/2000	260	218.8	222.7	256.1	-37.3		
2778	1	2S13W10A01	2/24/2000	260	218.8	222.7	256.1	-37.3		
2778	1	2S13W10A01	2/24/2000	260	218.8	222.7	256.1	-37.3		
2778	1	2S13W10A01	1/23/2000	241	218.8	222.7	237.1	-18.3		
2778	1	2S13W10A01	1/23/2000	241	218.8	222.7	237.1	-18.3		
2778	1	2S13W10A01	1/23/2000	241	218.8	222.7	237.1	-18.3		
2778	1	2S13W10A01	1/23/2000	241	218.8	222.7	237.1	-18.3		
2778	1	2S13W10A01	12/23/1999	242.2	218.8	222.7	238.3	-19.5		
2778	1	2S13W10A01	12/23/1999	242.2	218.8	222.7	238.3	-19.5		
2778	1	2S13W10A01	11/22/1999	250.2	218.8	222.7	246.3	-27.5		
2778	1	2S13W10A01	10/20/1999	250	218.8	222.7	246.1	-27.3		
2778	1	2S13W10A01	10/20/1999	250	218.8	222.7	246.1	-27.3		
2778	1	2S13W10A01	10/1/1999		218.8	222.7			Temporarily inaccessible	
2778	1	2S13W10A01	9/24/1999	249.9	218.8	222.7	246	-27.2		
2778	1	2S13W10A01	7/22/1999	248.2	218.8	222.7	244.3	-25.5		
2778	1	2S13W10A01	6/17/1999	246.1	218.8	222.7	242.2	-23.4		
2778	1	2S13W10A01	6/17/1999	246.1	218.8	222.7	242.2	-23.4		
2778	1	2S13W10A01	6/17/1999	246.1	218.8	222.7	242.2	-23.4		
2778	1	2S13W10A01	5/18/1999	240.5	218.8	222.7	236.6	-17.8		
2778	1	2S13W10A01	5/18/1999	240.5	218.8	222.7	236.6	-17.8		
2778	1	2S13W10A01	5/11/1999	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	5/11/1999	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	4/21/1999	238.6	218.8	222.7	234.7	-15.9		
2778	1	2S13W10A01	4/21/1999	238.6	218.8	222.7	234.7	-15.9		
2778	1	2S13W10A01	4/17/1999	240	218.8	222.7	236.1	-17.3		
2778	1	2S13W10A01	4/17/1999	240	218.8	222.7	236.1	-17.3		
2778	1	2S13W10A01	3/20/1999	239.1	218.8	222.7	235.2	-16.4		
2778	1	2S13W10A01	3/20/1999	239.1	218.8	222.7	235.2	-16.4		
2778	1	2S13W10A01	2/17/1999	238.8	218.8	222.7	234.9	-16.1		
2778	1	2S13W10A01	2/17/1999	238.8	218.8	222.7	234.9	-16.1		
2778	1	2S13W10A01	1/18/1999	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	1/18/1999	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	5/15/1998	223.3	218.8	222.7	219.4	-0.6		
2778	1	2S13W10A01	4/10/1998	235.3	218.8	222.7	231.4	-12.6		
2778	1	2S13W10A01	3/19/1998	235.4	218.8	222.7	231.5	-12.7		
2778	1	2S13W10A01	2/25/1998	235.4	218.8	222.7	231.5	-12.7		
2778	1	2S13W10A01	1/14/1998	238.2	218.8	222.7	234.3	-15.5		
2778	1	2S13W10A01	12/24/1997	237.5	218.8	222.7	233.6	-14.8		

2778	1	2S13W10A01	11/16/1997	236	218.8	222.7	232.1	-13.3		
2778	1	2S13W10A01	10/23/1997	238.3	218.8	222.7	234.4	-15.6		
2778	1	2S13W10A01	9/23/1997	240.3	218.8	222.7	236.4	-17.6		
2778	1	2S13W10A01	8/23/1997	239.1	218.8	222.7	235.2	-16.4		
2778	1	2S13W10A01	7/23/1997	239.5	218.8	222.7	235.6	-16.8		
2778	1	2S13W10A01	6/20/1997	238.8	218.8	222.7	234.9	-16.1		
2778	1	2S13W10A01	6/3/1997	238.8	218.8	222.7	234.9	-16.1		
2778	1	2S13W10A01	5/20/1997	236.8	218.8	222.7	232.9	-14.1		
2778	1	2S13W10A01	5/12/1997	236.8	218.8	222.7	232.9	-14.1		
2778	1	2S13W10A01	4/22/1997	235.1	218.8	222.7	231.2	-12.4		
2778	1	2S13W10A01	4/22/1997	235.1	218.8	222.7	231.2	-12.4		
2778	1	2S13W10A01	3/18/1997	235.1	218.8	222.7	231.2	-12.4		
2778	1	2S13W10A01	3/18/1997	235.1	218.8	222.7	231.2	-12.4		
2778	1	2S13W10A01	2/18/1997	235.5	218.8	222.7	231.6	-12.8		
2778	1	2S13W10A01	2/18/1997	235.5	218.8	222.7	231.6	-12.8		
2778	1	2S13W10A01	1/23/1997	236.3	218.8	222.7	232.4	-13.6		
2778	1	2S13W10A01	1/23/1997	236.3	218.8	222.7	232.4	-13.6		
2778	1	2S13W10A01	12/23/1996	260	218.8	222.7	256.1	-37.3		
2778	1	2S13W10A01	12/23/1996	260	218.8	222.7	256.1	-37.3		
2778	1	2S13W10A01	11/19/1996	239.4	218.8	222.7	235.5	-16.7		
2778	1	2S13W10A01	11/19/1996	239.4	218.8	222.7	235.5	-16.7		
2778	1	2S13W10A01	10/17/1996	241.7	218.8	222.7	237.8	-19		
2778	1	2S13W10A01	10/17/1996	241.7	218.8	222.7	237.8	-19		
2778	1	2S13W10A01	9/23/1996	247.9	218.8	222.7	244	-25.2		
2778	1	2S13W10A01	8/17/1996	246.6	218.8	222.7	242.7	-23.9		
2778	1	2S13W10A01	8/17/1996	246.6	218.8	222.7	242.7	-23.9		
2778	1	2S13W10A01	7/18/1996	244.8	218.8	222.7	240.9	-22.1		
2778	1	2S13W10A01	6/20/1996	243.5	218.8	222.7	239.6	-20.8		
2778	1	2S13W10A01	6/20/1996	243.5	218.8	222.7	239.6	-20.8		
2778	1	2S13W10A01	5/23/1996	240	218.8	222.7	236.1	-17.3		
2778	1	2S13W10A01	4/22/1996	234.4	218.8	222.7	230.5	-11.7		
2778	1	2S13W10A01	3/20/1996	235	218.8	222.7	231.1	-12.3		
2778	1	2S13W10A01	3/20/1996	235	218.8	222.7	231.1	-12.3		
2778	1	2S13W10A01	2/22/1996	238.3	218.8	222.7	234.4	-15.6		
2778	1	2S13W10A01	2/1/1996	238.3	218.8	222.7	234.4	-15.6		
2778	1	2S13W10A01	1/22/1996	238.9	218.8	222.7	235	-16.2		
2778	1	2S13W10A01	1/22/1996	238.9	218.8	222.7	235	-16.2		
2778	1	2S13W10A01	12/21/1995	238.8	218.8	222.7	234.9	-16.1		
2778	1	2S13W10A01	12/21/1995	238.8	218.8	222.7	234.9	-16.1		
2778	1	2S13W10A01	11/18/1995	240.4	218.8	222.7	236.5	-17.7		
2778	1	2S13W10A01	10/14/1995	241.1	218.8	222.7	237.2	-18.4		
2778	1	2S13W10A01	9/15/1995	244.9	218.8	222.7	241	-22.2		

2778	1	2S13W10A01	8/23/1995	243.4	218.8	222.7	239.5	-20.7		
2778	1	2S13W10A01	7/14/1995	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	6/8/1995	240.6	218.8	222.7	236.7	-17.9		
2778	1	2S13W10A01	5/17/1995	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	4/19/1995	241.1	218.8	222.7	237.2	-18.4		
2778	1	2S13W10A01	3/17/1995	239.7	218.8	222.7	235.8	-17		
2778	1	2S13W10A01	2/22/1995	240.2	218.8	222.7	236.3	-17.5		
2778	1	2S13W10A01	1/16/1995	227.1	218.8	222.7	223.2	-4.4		
2778	1	2S13W10A01	12/20/1994	243	218.8	222.7	239.1	-20.3		
2778	1	2S13W10A01	11/15/1994	247.2	218.8	222.7	243.3	-24.5		
2778	1	2S13W10A01	10/19/1994	250.2	218.8	222.7	246.3	-27.5		
2778	1	2S13W10A01	9/19/1994	246.4	218.8	222.7	242.5	-23.7		
2778	1	2S13W10A01	8/19/1994	245.8	218.8	222.7	241.9	-23.1		
2778	1	2S13W10A01	7/22/1994	239.2	218.8	222.7	235.3	-16.5		
2778	1	2S13W10A01	6/21/1994	238.5	218.8	222.7	234.6	-15.8		
2778	1	2S13W10A01	5/18/1994	235	218.8	222.7	231.1	-12.3		
2778	1	2S13W10A01	4/15/1994	235.8	218.8	222.7	231.9	-13.1		
2778	1	2S13W10A01	3/22/1994	235.1	218.8	222.7	231.2	-12.4		
2778	1	2S13W10A01	2/22/1994	238.3	218.8	222.7	234.4	-15.6		
2778	1	2S13W10A01	1/19/1994	238.5	218.8	222.7	234.6	-15.8		
2778	1	2S13W10A01	12/22/1993	239.6	218.8	222.7	235.7	-16.9		
2778	1	2S13W10A01	11/19/1993	243.1	218.8	222.7	239.2	-20.4		
2778	1	2S13W10A01	10/20/1993	242.2	218.8	222.7	238.3	-19.5		
2778	1	2S13W10A01	8/20/1993	242.8	218.8	222.7	238.9	-20.1		
2778	1	2S13W10A01	7/15/1993	243.5	218.8	222.7	239.6	-20.8		
2778	1	2S13W10A01	6/14/1993	242.9	218.8	222.7	239	-20.2		
2778	1	2S13W10A01	5/11/1993	244.3	218.8	222.7	240.4	-21.6		
2778	1	2S13W10A01	4/21/1993	243.4	218.8	222.7	239.5	-20.7		
2778	1	2S13W10A01	3/12/1993	244.5	218.8	222.7	240.6	-21.8		
2778	1	2S13W10A01	2/24/1993	243.6	218.8	222.7	239.7	-20.9		
2778	1	2S13W10A01	1/25/1993	244.8	218.8	222.7	240.9	-22.1		
2778	1	2S13W10A01	12/14/1992	247	218.8	222.7	243.1	-24.3		
2778	1	2S13W10A01	11/13/1992	247.9	218.8	222.7	244	-25.2		
2778	1	2S13W10A01	10/20/1992	248.6	218.8	222.7	244.7	-25.9		
2778	1	2S13W10A01	9/17/1992	249.7	218.8	222.7	245.8	-27		
2778	1	2S13W10A01	8/21/1992	248.1	218.8	222.7	244.2	-25.4		
2778	1	2S13W10A01	7/15/1992	248.6	218.8	222.7	244.7	-25.9		
2778	1	2S13W10A01	6/17/1992	249.3	218.8	222.7	245.4	-26.6		
2778	1	2S13W10A01	5/15/1992	248.4	218.8	222.7	244.5	-25.7		
2778	1	2S13W10A01	4/11/1992	248.1	218.8	222.7	244.2	-25.4		
2778	1	2S13W10A01	3/19/1992	247.1	218.8	222.7	243.2	-24.4		
2778	1	2S13W10A01	2/21/1992	243.7	218.8	222.7	239.8	-21		

2778	1	2S13W10A01	1/27/1992	246.1	218.8	222.7	242.2	-23.4		
2778	1	2S13W10A01	12/19/1991	243.7	218.8	222.7	239.8	-21		
2778	1	2S13W10A01	11/14/1991	247.9	218.8	222.7	244	-25.2		
2778	1	2S13W10A01	10/24/1991	248.8	218.8	222.7	244.9	-26.1		
2778	1	2S13W10A01	8/2/1991	249.9	218.8	222.7	246	-27.2		
2778	1	2S13W10A01	7/24/1991	251.6	218.8	222.7	247.7	-28.9		
2778	1	2S13W10A01	5/3/1991	245.3	218.8	222.7	241.4	-22.6		
2778	1	2S13W10A01	2/14/1991	246.5	218.8	222.7	242.6	-23.8		
2778	1	2S13W10A01	1/25/1991	244.9	218.8	222.7	241	-22.2		
2778	1	2S13W10A01	1/25/1991	244.9	218.8	222.7	241	-22.2		
2778	1	2S13W10A01	12/26/1990	245.4	218.8	222.7	241.5	-22.7		
2778	1	2S13W10A01	11/14/1990	246.7	218.8	222.7	242.8	-24		
2778	1	2S13W10A01	10/5/1990	249.4	218.8	222.7	245.5	-26.7		
2778	1	2S13W10A01	9/11/1990	249.3	218.8	222.7	245.4	-26.6		
2778	1	2S13W10A01	8/15/1990	248.6	218.8	222.7	244.7	-25.9		
2778	1	2S13W10A01	7/31/1990	249.5	218.8	222.7	245.6	-26.8		
2778	1	2S13W10A01	7/27/1990	249.5	218.8	222.7	245.6	-26.8		
2778	1	2S13W10A01	5/9/1990	245.3	218.8	222.7	241.4	-22.6		
2778	1	2S13W10A01	4/11/1990	245.4	218.8	222.7	241.5	-22.7		
2778	1	2S13W10A01	3/7/1990	246.1	218.8	222.7	242.2	-23.4		
2778	1	2S13W10A01	3/7/1990	246.1	218.8	222.7	242.2	-23.4		
2778	1	2S13W10A01	2/14/1990	247.2	218.8	222.7	243.3	-24.5		
2778	1	2S13W10A01	2/14/1990	247	218.8	222.7	243.1	-24.3		
2778	1	2S13W10A01	1/25/1990	244.9	218.8	222.7	241	-22.2		
2778	1	2S13W10A01	1/12/1990	247.2	218.8	222.7	243.3	-24.5		
2778	1	2S13W10A01	1/9/1990	247.2	218.8	222.7	243.3	-24.5		
2778	1	2S13W10A01	12/11/1989	249.4	218.8	222.7	245.5	-26.7		
2778	1	2S13W10A01	12/11/1989	249.4	218.8	222.7	245.5	-26.7		
2778	1	2S13W10A01	11/14/1989	249.2	218.8	222.7	245.3	-26.5		
2778	1	2S13W10A01	11/14/1989	249.2	218.8	222.7	245.3	-26.5		
2778	1	2S13W10A01	10/17/1989	249.8	218.8	222.7	245.9	-27.1		
2778	1	2S13W10A01	9/14/1989	252.3	218.8	222.7	248.4	-29.6		
2778	1	2S13W10A01	8/9/1989	251.2	218.8	222.7	247.3	-28.5		
2778	1	2S13W10A01	7/15/1989	251.1	218.8	222.7	247.2	-28.4		
2778	1	2S13W10A01	6/13/1989	251	218.8	222.7	247.1	-28.3		
2778	1	2S13W10A01	5/15/1989	248.6	218.8	222.7	244.7	-25.9		
2778	1	2S13W10A01	4/18/1989	248.8	218.8	222.7	244.9	-26.1		
2778	1	2S13W10A01	4/18/1989	248.8	218.8	222.7	244.9	-26.1		
2778	1	2S13W10A01	3/21/1989	249.5	218.8	222.7	245.6	-26.8		
2778	1	2S13W10A01	3/21/1989	249.5	218.8	222.7	245.6	-26.8		
2778	1	2S13W10A01	2/13/1989	252.5	218.8	222.7	248.6	-29.8		
2778	1	2S13W10A01	2/13/1989	252.5	218.8	222.7	248.6	-29.8		

2778	1	2S13W10A01	1/18/1989	253	218.8	222.7	249.1	-30.3		
2778	1	2S13W10A01	12/8/1988	253	218.8	222.7	249.1	-30.3		
2778	1	2S13W10A01	12/8/1988	253	218.8	222.7	249.1	-30.3		
2778	1	2S13W10A01	11/15/1988	250.1	218.8	222.7	246.2	-27.4		
2778	1	2S13W10A01	11/15/1988	250.1	218.8	222.7	246.2	-27.4		
2778	1	2S13W10A01	10/12/1988	253.9	218.8	222.7	250	-31.2		
2778	1	2S13W10A01	10/12/1988	253.9	218.8	222.7	250	-31.2		
2778	1	2S13W10A01	9/7/1988	250.2	218.8	222.7	246.3	-27.5		
2778	1	2S13W10A01	9/7/1988	250.2	218.8	222.7	246.3	-27.5		
2778	1	2S13W10A01	8/9/1988	249.1	218.8	222.7	245.2	-26.4		
2778	1	2S13W10A01	8/9/1988	249.1	218.8	222.7	245.2	-26.4		
2778	1	2S13W10A01	7/11/1988	247.7	218.8	222.7	243.8	-25		
2778	1	2S13W10A01	6/15/1988	249.3	218.8	222.7	245.4	-26.6		
2778	1	2S13W10A01	6/15/1988	249.3	218.8	222.7	245.4	-26.6		
2778	1	2S13W10A01	4/18/1988	246.2	218.8	222.7	242.3	-23.5		
2778	1	2S13W10A01	4/18/1988	246.2	218.8	222.7	242.3	-23.5		
2778	1	2S13W10A01	3/8/1988	248.3	218.8	222.7	244.4	-25.6		
2778	1	2S13W10A01	3/8/1988	248.3	218.8	222.7	244.4	-25.6		
2778	1	2S13W10A01	2/28/1988	248	218.8	222.7	244.1	-25.3		
2778	1	2S13W10A01	2/8/1988	248	218.8	222.7	244.1	-25.3		
2778	1	2S13W10A01	1/28/1988	248.6	218.8	222.7	244.7	-25.9		
2778	1	2S13W10A01	1/28/1988	248.6	218.8	222.7	244.7	-25.9		
2778	1	2S13W10A01	12/21/1987	250.1	218.8	222.7	246.2	-27.4		
2778	1	2S13W10A01	12/21/1987	250.1	218.8	222.7	246.2	-27.4		
2778	1	2S13W10A01	11/16/1987	249.5	218.8	222.7	245.6	-26.8		
2778	1	2S13W10A01	11/16/1987	249.5	218.8	222.7	245.6	-26.8		
2778	1	2S13W10A01	10/16/1987	250.4	218.8	222.7	246.5	-27.7		
2778	1	2S13W10A01	10/16/1987	250.4	218.8	222.7	246.5	-27.7		
2778	1	2S13W10A01	9/18/1987	255	218.8	222.7	251.1	-32.3		
2778	1	2S13W10A01	9/18/1987	255	218.8	222.7	251.1	-32.3		
2778	1	2S13W10A01	7/13/1987	250.1	218.8	222.7	246.2	-27.4		
2778	1	2S13W10A01	7/13/1987	250.1	218.8	222.7	246.2	-27.4		
2778	1	2S13W10A01	6/24/1987	250.5	218.8	222.7	246.6	-27.8		
2778	1	2S13W10A01	6/24/1987	250.5	218.8	222.7	246.6	-27.8		
2778	1	2S13W10A01	5/20/1987	249.8	218.8	222.7	245.9	-27.1		
2778	1	2S13W10A01	4/24/1987	250.8	218.8	222.7	246.9	-28.1		
2778	1	2S13W10A01	3/19/1987	252.2	218.8	222.7	248.3	-29.5		
2778	1	2S13W10A01	2/19/1987	250.8	218.8	222.7	246.9	-28.1		
2778	1	2S13W10A01	1/21/1987	252	218.8	222.7	248.1	-29.3		
2778	1	2S13W10A01	12/16/1986	254.2	218.8	222.7	250.3	-31.5		
2778	1	2S13W10A01	11/21/1986	256.1	218.8	222.7	252.2	-33.4		
2778	1	2S13W10A01	10/29/1986	254.1	218.8	222.7	250.2	-31.4		

2778	1	2S13W10A01	9/19/1986	254.4	218.8	222.7	250.5	-31.7		
2778	1	2S13W10A01	8/22/1986	254.7	218.8	222.7	250.8	-32		
2778	1	2S13W10A01	7/25/1986	254.6	218.8	222.7	250.7	-31.9		
2778	1	2S13W10A01	5/19/1986	252.7	218.8	222.7	248.8	-30		
2778	1	2S13W10A01	4/21/1986	252	218.8	222.7	248.1	-29.3		
2778	1	2S13W10A01	1/21/1986	254.6	218.8	222.7	250.7	-31.9		
2778	1	2S13W10A01	12/19/1985	254	218.8	222.7	250.1	-31.3		
2778	1	2S13W10A01	11/15/1985	254.9	218.8	222.7	251	-32.2		
2778	1	2S13W10A01	10/21/1985	254.5	218.8	222.7	250.6	-31.8		
2778	1	2S13W10A01	9/18/1985	255.7	218.8	222.7	251.8	-33		
2778	1	2S13W10A01	8/21/1985	255.3	218.8	222.7	251.4	-32.6		
2778	1	2S13W10A01	7/24/1985	255.9	218.8	222.7	252	-33.2		
2778	1	2S13W10A01	4/26/1985	272.3	218.8	222.7	268.4	-49.6		
2778	1	2S13W10A01	2/14/1985	256.9	218.8	222.7	253	-34.2		
2778	1	2S13W10A01	1/24/1985	259.6	218.8	222.7	255.7	-36.9		
2778	1	2S13W10A01	11/20/1984	260	218.8	222.7	256.1	-37.3		
2778	1	2S13W10A01	10/19/1984	259.7	218.8	222.7	255.8	-37		
2778	1	2S13W10A01	9/13/1984	259.9	218.8	222.7	256	-37.2		
2778	1	2S13W10A01	8/20/1984	260.5	218.8	222.7	256.6	-37.8		
2778	1	2S13W10A01	7/16/1984	259.3	218.8	222.7	255.4	-36.6		
2778	1	2S13W10A01	6/18/1984	258.4	218.8	222.7	254.5	-35.7		
2778	1	2S13W10A01	5/10/1984	259.3	218.8	222.7	255.4	-36.6		
2778	1	2S13W10A01	4/18/1984	259	218.8	222.7	255.1	-36.3		
2778	1	2S13W10A01	3/13/1984	261.6	218.8	222.7	257.7	-38.9		
2778	1	2S13W10A01	2/16/1984	261.6	218.8	222.7	257.7	-38.9		
2778	1	2S13W10A01	1/19/1984	260.5	218.8	222.7	256.6	-37.8		
2778	1	2S13W10A01	12/15/1983	263.3	218.8	222.7	259.4	-40.6		
2778	1	2S13W10A01	11/14/1983	264.2	218.8	222.7	260.3	-41.5		
2778	1	2S13W10A01	10/20/1983	265.9	218.8	222.7	262	-43.2		
2778	1	2S13W10A01	9/14/1983	265.2	218.8	222.7	261.3	-42.5		
2778	1	2S13W10A01	8/30/1983	265.1	218.8	222.7	261.2	-42.4		
2778	1	2S13W10A01	7/26/1983	266.4	218.8	222.7	262.5	-43.7		
2778	1	2S13W10A01	6/16/1983	266.7	218.8	222.7	262.8	-44		
2778	1	2S13W10A01	5/26/1983	265.9	218.8	222.7	262	-43.2		
2778	1	2S13W10A01	4/21/1983	267.4	218.8	222.7	263.5	-44.7		
2778	1	2S13W10A01	2/25/1983	266.8	218.8	222.7	262.9	-44.1		
2778	1	2S13W10A01	1/21/1983	270.6	218.8	222.7	266.7	-47.9		
2778	1	2S13W10A01	12/29/1982	269.4	218.8	222.7	265.5	-46.7		
2778	1	2S13W10A01	11/23/1982	270.8	218.8	222.7	266.9	-48.1		
2778	1	2S13W10A01	10/20/1982	271.6	218.8	222.7	267.7	-48.9		
2778	1	2S13W10A01	9/21/1982	270.8	218.8	222.7	266.9	-48.1		
2778	1	2S13W10A01	8/25/1982	270.6	218.8	222.7	266.7	-47.9		

2778	1	2S13W10A01	7/20/1982	270.3	218.8	222.7	266.4	-47.6		
2778	1	2S13W10A01	6/22/1982	269.6	218.8	222.7	265.7	-46.9		
2778	1	2S13W10A01	5/25/1982	269	218.8	222.7	265.1	-46.3		
2778	1	2S13W10A01	3/23/1982	268.3	218.8	222.7	264.4	-45.6		
2778	1	2S13W10A01	2/16/1982	269.3	218.8	222.7	265.4	-46.6		
2778	1	2S13W10A01	1/12/1982	271.4	218.8	222.7	267.5	-48.7		
2778	1	2S13W10A01	12/23/1981	273.8	218.8	222.7	269.9	-51.1		
2778	1	2S13W10A01	11/9/1981	276.4	218.8	222.7	272.5	-53.7		
2778	1	2S13W10A01	10/22/1981	275.8	218.8	222.7	271.9	-53.1		
2778	1	2S13W10A01	9/29/1981	275.4	218.8	222.7	271.5	-52.7		
2778	1	2S13W10A01	8/21/1981	274.3	218.8	222.7	270.4	-51.6		
2778	1	2S13W10A01	7/29/1981	275.6	218.8	222.7	271.7	-52.9		
2778	1	2S13W10A01	6/23/1981	272.7	218.8	222.7	268.8	-50		
2778	1	2S13W10A01	5/12/1981	272.7	218.8	222.7	268.8	-50		
2778	1	2S13W10A01	3/31/1981	275	218.8	222.7	271.1	-52.3		
2778	1	2S13W10A01	2/20/1981	278.2	218.8	222.7	274.3	-55.5		
2778	1	2S13W10A01	1/26/1981	276.7	218.8	222.7	272.8	-54		
2778	1	2S13W10A01	12/18/1980	278.7	218.8	222.7	274.8	-56		
2778	1	2S13W10A01	11/12/1980	278.4	218.8	222.7	274.5	-55.7		
2778	1	2S13W10A01	10/29/1980	279.1	218.8	222.7	275.2	-56.4		
2778	1	2S13W10A01	9/25/1980	279.8	218.8	222.7	275.9	-57.1		
2778	1	2S13W10A01	7/21/1980	276.8	218.8	222.7	272.9	-54.1		
2778	1	2S13W10A01	6/24/1980	276	218.8	222.7	272.1	-53.3		
2778	1	2S13W10A01	3/31/1980	279.1	218.8	222.7	275.2	-56.4		
2778	1	2S13W10A01	1/21/1980	278.5	218.8	222.7	274.6	-55.8		
2778	1	2S13W10A01	12/17/1979	280.6	218.8	222.7	276.7	-57.9		
2778	1	2S13W10A01	11/16/1979	283.4	218.8	222.7	279.5	-60.7		
2778	1	2S13W10A01	10/15/1979	282.1	218.8	222.7	278.2	-59.4		
2778	1	2S13W10A01	8/31/1979	283.6	218.8	222.7	279.7	-60.9		
2778	1	2S13W10A01	7/26/1979	282.3	218.8	222.7	278.4	-59.6		
2778	1	2S13W10A01	4/24/1979	280.2	218.8	222.7	276.3	-57.5		
2778	1	2S13W10A01	3/30/1979	282.2	218.8	222.7	278.3	-59.5		
2778	1	2S13W10A01	2/27/1979	281.9	218.8	222.7	278	-59.2		
2778	1	2S13W10A01	1/26/1979	285.1	218.8	222.7	281.2	-62.4		
2778	1	2S13W10A01	12/21/1978	283.8	218.8	222.7	279.9	-61.1		
2778	1	2S13W10A01	11/14/1978	285.2	218.8	222.7	281.3	-62.5		
2778	1	2S13W10A01	10/17/1978	287.3	218.8	222.7	283.4	-64.6		
2778	1	2S13W10A01	9/22/1978	285.8	218.8	222.7	281.9	-63.1		
2778	1	2S13W10A01	8/22/1978	283.4	218.8	222.7	279.5	-60.7		
2778	1	2S13W10A01	7/14/1978	285.3	218.8	222.7	281.4	-62.6		
2778	1	2S13W10A01	6/20/1978	281.4	218.8	222.7	277.5	-58.7		
2778	1	2S13W10A01	5/9/1978	282.5	218.8	222.7	278.6	-59.8		

2778	1	2S13W10A01	4/21/1978	286.2	218.8	222.7	282.3	-63.5		
2778	1	2S13W10A01	3/15/1978	283.8	218.8	222.7	279.9	-61.1		
2778	1	2S13W10A01	2/15/1978	286	218.8	222.7	282.1	-63.3		
2778	1	2S13W10A01	1/13/1978	288.9	218.8	222.7	285	-66.2		
2778	1	2S13W10A01	12/13/1977	289	218.8	222.7	285.1	-66.3		
2778	1	2S13W10A01	10/11/1977	288.8	218.8	222.7	284.9	-66.1		
2778	1	2S13W10A01	9/13/1977	290.3	218.8	222.7	286.4	-67.6		
2778	1	2S13W10A01	8/9/1977	289.2	218.8	222.7	285.3	-66.5		
2778	1	2S13W10A01	7/12/1977	287.4	218.8	222.7	283.5	-64.7		
2778	1	2S13W10A01	6/13/1977	285.5	218.8	222.7	281.6	-62.8		
2778	1	2S13W10A01	5/16/1977	285.2	218.8	222.7	281.3	-62.5		
2778	1	2S13W10A01	4/12/1977	285.9	218.8	222.7	282	-63.2		
2778	1	2S13W10A01	3/8/1977	285.4	218.8	222.7	281.5	-62.7		
2778	1	2S13W10A01	2/8/1977	285.5	218.8	222.7	281.6	-62.8		
2778	1	2S13W10A01	1/10/1977	283.6	218.8	222.7	279.7	-60.9		
2778	1	2S13W10A01	12/7/1976	286.9	218.8	222.7	283	-64.2		
2778	1	2S13W10A01	10/13/1976	289	218.8	222.7	285.1	-66.3		
2778	1	2S13W10A01	9/7/1976	286.5	218.8	222.7	282.6	-63.8		
2778	1	2S13W10A01	8/9/1976	287.2	218.8	222.7	283.3	-64.5		
2778	1	2S13W10A01	7/6/1976	285.8	218.8	222.7	281.9	-63.1		
2778	1	2S13W10A01	6/8/1976	285.3	218.8	222.7	281.4	-62.6		
2778	1	2S13W10A01	5/13/1976	288	218.8	222.7	284.1	-65.3		
2778	1	2S13W10A01	4/29/1976	286.6	218.8	222.7	282.7	-63.9		
2778	1	2S13W10A01	3/17/1976	285.5	218.8	222.7	281.6	-62.8		
2778	1	2S13W10A01	1/13/1976	284.8	218.8	222.7	280.9	-62.1		
2778	1	2S13W10A01	12/10/1975	284.6	218.8	222.7	280.7	-61.9		
2778	1	2S13W10A01	11/12/1975	285.2	218.8	222.7	281.3	-62.5		
2778	1	2S13W10A01	10/9/1975	285.8	218.8	222.7	281.9	-63.1		
2778	1	2S13W10A01	9/4/1975	284.3	218.8	222.7	280.5	-61.6		
2778	1	2S13W10A01	8/11/1975	283.5	218.8	222.7	279.7	-60.8		
2778	1	2S13W10A01	8/5/1975	285	218.8	222.7	281.2	-62.3		
2778	1	2S13W10A01	7/8/1975		218.8	222.7			Well covered	
2778	1	2S13W10A01	6/9/1975		218.8	222.7			Well covered	
2778	1	2S13W10A01	5/8/1975	283.6	218.8	222.7	277.1	-60.9		
2778	1	2S13W10A01	4/11/1975	283.8	218.8	222.7	277.3	-61.1		
2778	1	2S13W10A01	3/12/1975	284.9	218.8	222.7	278.4	-62.2		
2778	1	2S13W10A01	2/5/1975	284.8	218.8	222.7	278.3	-62.1		
2778	1	2S13W10A01	1/6/1975	280.5	218.8	222.7	274	-57.8		
2778	1	2S13W10A01	12/5/1974	286.4	218.8	222.7	279.9	-63.7		
2778	1	2S13W10A01	12/3/1974	285.3	218.8	222.7	278.8	-62.6		
2778	1	2S13W10A01	11/13/1974	288.2	218.8	222.7	281.7	-65.5		
2778	1	2S13W10A01	10/2/1974	289.7	218.8	222.7	283.2	-67		

2778	1	2S13W10A01	9/11/1974	288.3	218.8	222.7	281.8	-65.6		
2778	1	2S13W10A01	8/9/1974	289.1	218.8	222.7	282.6	-66.4		
2778	1	2S13W10A01	7/2/1974	286.1	218.8	222.7	279.6	-63.4		
2778	1	2S13W10A01	6/6/1974	286.9	218.8	222.7	280.4	-64.2		
2778	1	2S13W10A01	4/30/1974	284.5	218.8	222.7	278	-61.8		
2778	1	2S13W10A01	4/1/1974	282.5	218.8	222.7	276	-59.8		
2778	1	2S13W10A01	3/4/1974	282.2	218.8	222.7	275.7	-59.5		
2778	1	2S13W10A01	2/5/1974	283.6	218.8	222.7	277.1	-60.9		
2778	1	2S13W10A01	1/16/1974	283.8	218.8	222.7	277.3	-61.1		
2778	1	2S13W10A01	10/30/1973	288.1	218.8	222.7	281.6	-65.4		
2778	1	2S13W10A01	10/2/1973	286.7	218.8	222.7	280.2	-64		
2778	1	2S13W10A01	9/5/1973	285.5	218.8	222.7	279	-62.8		
2778	1	2S13W10A01	8/10/1973	288.7	218.8	222.7	282.2	-66		
2778	1	2S13W10A01	7/3/1973	286	218.8	222.7	279.5	-63.3		
2778	1	2S13W10A01	6/1/1973	286.7	218.8	222.7	280.2	-64		
2778	1	2S13W10A01	5/8/1973	285.6	218.8	222.7	279.1	-62.9		
2778	1	2S13W10A01	4/3/1973	286.5	218.8	222.7	280	-63.8		
2778	1	2S13W10A01	3/5/1973	284.8	218.8	222.7	278.3	-62.1		
2778	1	2S13W10A01	2/15/1973	288.7	218.8	222.7	282.2	-66		
2778	1	2S13W10A01	1/8/1973	285.5	218.8	222.7	279	-62.8		
2778	1	2S13W10A01	12/13/1972	289.2	218.8	222.7	282.7	-66.5		
2778	1	2S13W10A01	11/8/1972	288.6	218.8	222.7	282.1	-65.9		
2778	1	2S13W10A01	10/11/1972	290.7	218.8	222.7	284.2	-68		
2778	1	2S13W10A01	9/12/1972	287.8	218.8	222.7	281.3	-65.1		
2778	1	2S13W10A01	8/22/1972	289.8	218.8	222.7	283.3	-67.1		
2778	1	2S13W10A01	7/12/1972	287.1	218.8	222.7	280.6	-64.4		
2778	1	2S13W10A01	6/15/1972	287.6	218.8	222.7	281.1	-64.9		
2778	1	2S13W10A01	5/11/1972	287.3	218.8	222.7	280.8	-64.6		
2778	1	2S13W10A01	4/11/1972	285.4	218.8	222.7	278.9	-62.7		
2778	1	2S13W10A01	3/7/1972	285	218.8	222.7	278.5	-62.3		
2778	1	2S13W10A01	2/8/1972	284	218.8	222.7	277.5	-61.3		
2778	1	2S13W10A01	1/10/1972	283.1	218.8	222.7	276.6	-60.4		
2778	1	2S13W10A01	12/2/1971	288.2	218.8	222.7	281.7	-65.5		
2778	1	2S13W10A01	11/4/1971	288.9	218.8	222.7	282.4	-66.2		
2778	1	2S13W10A01	10/5/1971	287.7	218.8	222.7	281.2	-65		
2778	1	2S13W10A01	9/2/1971	287.3	218.8	222.7	280.8	-64.6		
2778	1	2S13W10A01	8/4/1971	284.4	218.8	222.7	277.9	-61.7		
2778	1	2S13W10A01	7/2/1971	284	218.8	222.7	277.5	-61.3		
2778	1	2S13W10A01	6/1/1971	283.3	218.8	222.7	276.8	-60.6		
2778	1	2S13W10A01	5/3/1971	285.5	218.8	222.7	279	-62.8		
2778	1	2S13W10A01	4/5/1971	290.4	218.8	222.7	283.9	-67.7		
2778	1	2S13W10A01	3/1/1971	291	218.8	222.7	284.5	-68.3		

2778	1	2S13W10A01	2/2/1971	289.7	218.8	222.7	283.2	-67		
2778	1	2S13W10A01	1/5/1971	290	218.8	222.7	283.5	-67.3		
2778	1	2S13W10A01	11/10/1970	293.4	218.8	222.7	286.9	-70.7		
2778	1	2S13W10A01	10/16/1970	298.7	218.8	222.7	292.2	-76		
2778	1	2S13W10A01	9/28/1970	293.9	218.8	222.7	287.4	-71.2		
2778	1	2S13W10A01	8/10/1970	294.7	218.8	222.7	288.2	-72		
2778	1	2S13W10A01	7/7/1970	295.2	218.8	222.7	288.7	-72.5		
2778	1	2S13W10A01	6/16/1970	295.9	218.8	222.7	289.4	-73.2		
2778	1	2S13W10A01	5/18/1970	294.6	218.8	222.7	288.1	-71.9		
2778	1	2S13W10A01	4/21/1970	295.6	218.8	222.7	289.1	-72.9		
2778	1	2S13W10A01	3/4/1970	296.5	218.8	222.7	290	-73.8		
2778	1	2S13W10A01	2/4/1970	292.1	218.8	222.7	285.6	-69.4		
2778	1	2S13W10A01	1/6/1970	288.9	218.8	222.7	282.4	-66.2		
2778	1	2S13W10A01	12/9/1969	294.8	218.8	222.7	288.3	-72.1		
2778	1	2S13W10A01	11/4/1969	296.7	218.8	222.7	290.2	-74		
2778	1	2S13W10A01	10/6/1969	295.8	218.8	222.7	289.3	-73.1		
2778	1	2S13W10A01	9/2/1969	289.4	218.8	222.7	282.9	-66.7		
2778	1	2S13W10A01	8/5/1969	291.7	218.8	222.7	285.2	-69		
2778	1	2S13W10A01	7/9/1969	295.6	218.8	222.7	289.1	-72.9		
2778	1	2S13W10A01	6/3/1969	295.2	218.8	222.7	288.7	-72.5		
2778	1	2S13W10A01	5/6/1969	291.5	218.8	222.7	285	-68.8		
2778	1	2S13W10A01	4/22/1969	293	218.8	222.7	283.7	-70.3		
2778	1	2S13W10A01	4/11/1969	293.3	218.8	222.7	286.8	-70.6		
2778	1	2S13W10A01	3/11/1969	292.4	218.8	222.7	285.9	-69.7		
2778	1	2S13W10A01	2/7/1969	294.6	218.8	222.7	288.1	-71.9		
2778	1	2S13W10A01	1/7/1969	292.9	218.8	222.7	286.4	-70.2		
2778	1	2S13W10A01	12/4/1968	303.9	218.8	222.7	297.4	-81.2		
2778	1	2S13W10A01	11/6/1968	303.2	218.8	222.7	296.7	-80.5		
2778	1	2S13W10A01	10/2/1968	302	218.8	222.7	295.5	-79.3		
2778	1	2S13W10A01	9/4/1968	300	218.8	222.7	293.5	-77.3		
2778	1	2S13W10A01	8/6/1968	301.7	218.8	222.7	295.2	-79		
2778	1	2S13W10A01	7/9/1968	295.4	218.8	222.7	288.9	-72.7		
2778	1	2S13W10A01	6/6/1968	297.4	218.8	222.7	290.9	-74.7		
2778	1	2S13W10A01	5/7/1968	302.9	218.8	222.7	296.4	-80.2		
2778	1	2S13W10A01	4/3/1968	297.9	218.8	222.7	291.4	-75.2		
2778	1	2S13W10A01	3/5/1968	297.1	218.8	222.7	290.6	-74.4		
2778	1	2S13W10A01	2/6/1968	297.7	218.8	222.7	291.2	-75		
2778	1	2S13W10A01	1/3/1968	299.9	218.8	222.7	293.4	-77.2		
2778	1	2S13W10A01	12/6/1967	298.9	218.8	222.7	292.4	-76.2		
2778	1	2S13W10A01	11/7/1967	299.4	218.8	222.7	292.9	-76.7		
2778	1	2S13W10A01	10/4/1967	299.9	218.8	222.7	293.4	-77.2		
2778	1	2S13W10A01	9/6/1967	301.5	218.8	222.7	295	-78.8		

2778	1	2S13W10A01	8/2/1967	301.8	218.8	222.7	295.3	-79.1		
2778	1	2S13W10A01	7/5/1967	302.1	218.8	222.7	295.6	-79.4		
2778	1	2S13W10A01	6/6/1967	303.3	218.8	222.7	296.8	-80.6		
2778	1	2S13W10A01	5/9/1967	302	218.8	222.7	295.5	-79.3		
2778	1	2S13W10A01	4/10/1967	301.4	218.8	222.7	294.9	-78.7		
2778	1	2S13W10A01	3/7/1967	300.3	218.8	222.7	293.8	-77.6		
2778	1	2S13W10A01	2/8/1967	301.8	218.8	222.7	295.3	-79.1		
2778	1	2S13W10A01	1/4/1967	300.3	218.8	222.7	293.8	-77.6		
2778	1	2S13W10A01	12/13/1966	303.3	218.8	222.7	296.8	-80.6		
2778	1	2S13W10A01	11/28/1966	304.7	218.8	222.7	298.2	-82		
2778	1	2S13W10A01	10/4/1966	308.1	218.8	222.7	301.6	-85.4		
2778	1	2S13W10A01	9/7/1966	305	218.8	222.7	298.5	-82.3		
2778	1	2S13W10A01	8/2/1966	309.7	218.8	222.7	303.2	-87		
2778	1	2S13W10A01	7/13/1966	306.8	218.8	222.7	300.3	-84.1		
2778	1	2S13W10A01	6/8/1966	307.1	218.8	222.7	300.6	-84.4		
2778	1	2S13W10A01	5/4/1966	310.4	218.8	222.7	303.9	-87.7		
2778	1	2S13W10A01	4/5/1966	309.7	218.8	222.7	303.2	-87		
2778	1	2S13W10A01	3/2/1966	302.7	218.8	222.7	296.2	-80		
2778	1	2S13W10A01	2/8/1966	302.9	218.8	222.7	296.4	-80.2		
2778	1	2S13W10A01	1/4/1966	303.3	218.8	222.7	296.8	-80.6		
2778	1	2S13W10A01	12/7/1965	300	218.8	222.7	293.5	-77.3		
2778	1	2S13W10A01	11/2/1965	300	218.8	222.7	293.5	-77.3		
2778	1	2S13W10A01	10/5/1965	308.1	218.8	222.7	301.6	-85.4		
2778	1	2S13W10A01	9/15/1965	304.8	218.8	222.7	298.3	-82.1		
2778	1	2S13W10A01	8/3/1965	306.5	218.8	222.7	300	-83.8		
2778	1	2S13W10A01	7/6/1965	300.1	218.8	222.7	293.6	-77.4		
2778	1	2S13W10A01	6/22/1965	307	218.8	222.7	300.5	-84.3		
2778	1	2S13W10A01	5/11/1965	292.4	218.8	222.7	285.9	-69.7		
2778	1	2S13W10A01	4/6/1965	293.4	218.8	222.7	286.9	-70.7		
2778	1	2S13W10A01	3/2/1965	307.4	218.8	222.7	300.9	-84.7		
2778	1	2S13W10A01	2/2/1965	307.6	218.8	222.7	301.1	-84.9		
2778	1	2S13W10A01	1/12/1965	307.9	218.8	222.7	301.4	-85.2		
2778	1	2S13W10A01	12/1/1964	308.2	218.8	222.7	301.7	-85.5		
2778	1	2S13W10A01	10/6/1964	310	218.8	222.7	303.5	-87.3		Well covered in
2778	1	2S13W10A01	9/2/1964	309	218.8	222.7	302.5	-86.3		
2778	1	2S13W10A01	8/3/1964	307.2	218.8	222.7	300.7	-84.5		
2778	1	2S13W10A01	7/6/1964	306.4	218.8	222.7	299.9	-83.7		
2778	1	2S13W10A01	6/3/1964	310.1	218.8	222.7	303.6	-87.4		
2778	1	2S13W10A01	5/5/1964	309.4	218.8	222.7	302.9	-86.7		
2778	1	2S13W10A01	4/13/1964	309.4	218.8	222.7	302.9	-86.7		
2778	1	2S13W10A01	3/3/1964	315.7	218.8	222.7	309.2	-93		
2778	1	2S13W10A01	2/5/1964	312.5	218.8	222.7	306	-89.8		

2778	1	2S13W10A01	1/6/1964	309.9	218.8	222.7	303.4	-87.2		
2778	1	2S13W10A01	12/4/1963	313.9	218.8	222.7	307.4	-91.2		
2778	1	2S13W10A01	11/5/1963	314.9	218.8	222.7	308.4	-92.2		
2778	1	2S13W10A01	10/1/1963	317.6	218.8	222.7	311.1	-94.9		
2778	1	2S13W10A01	9/3/1963	313.4	218.8	222.7	306.9	-90.7		
2778	1	2S13W10A01	8/5/1963	316.3	218.8	222.7	309.8	-93.6		
2778	1	2S13W10A01	7/8/1963	315.2	218.8	222.7	308.7	-92.5		
2778	1	2S13W10A01	6/5/1963	317.7	218.8	222.7	311.2	-95		
2778	1	2S13W10A01	5/6/1963	315.7	218.8	222.7	309.2	-93		
2778	1	2S13W10A01	4/4/1963	319.5	218.8	222.7	313	-96.8		
2778	1	2S13W10A01	3/4/1963	317.3	218.8	222.7	310.8	-94.6		
2778	1	2S13W10A01	2/4/1963	319.4	218.8	222.7	312.9	-96.7		
2778	1	2S13W10A01	1/9/1963	318.9	218.8	222.7	312.4	-96.2		
2778	1	2S13W10A01	12/3/1962	319.7	218.8	222.7	313.2	-97		
2778	1	2S13W10A01	11/5/1962	325.9	218.8	222.7	319.4	-103.2		
2778	1	2S13W10A01	10/1/1962	329.7	218.8	222.7	323.2	-107		
2778	1	2S13W10A01	9/4/1962	325.6	218.8	222.7	319.1	-102.9		
2778	1	2S13W10A01	8/8/1962	329.2	218.8	222.7	322.7	-106.5		
2778	1	2S13W10A01	7/2/1962	327.1	218.8	222.7	320.6	-104.4		
2778	1	2S13W10A01	6/4/1962	326.2	218.8	222.7	319.7	-103.5		
2778	1	2S13W10A01	5/7/1962	326.1	218.8	222.7	319.6	-103.4		
2778	1	2S13W10A01	4/2/1962	324.7	218.8	222.7	318.2	-102		
2778	1	2S13W10A01	3/5/1962	325.2	218.8	222.7	318.7	-102.5		
2778	1	2S13W10A01	2/5/1962	326.1	218.8	222.7	319.6	-103.4		
2778	1	2S13W10A01	1/9/1962	324.8	218.8	222.7	318.3	-102.1		
2778	1	2S13W10A01	12/6/1961	325.2	218.8	222.7	318.7	-102.5		
2778	1	2S13W10A01	11/6/1961	324.9	218.8	222.7	318.4	-102.2		
2778	1	2S13W10A01	10/3/1961	328.3	218.8	222.7	321.8	-105.6		
2778	1	2S13W10A01	9/5/1961	325	218.8	222.7	318.5	-102.3		
2778	1	2S13W10A01	8/1/1961	325.1	218.8	222.7	318.6	-102.4		
2778	1	2S13W10A01	7/11/1961	323.9	218.8	222.7	317.4	-101.2		
2778	1	2S13W10A01	6/5/1961	321.4	218.8	222.7	314.9	-98.7		
2778	1	2S13W10A01	5/9/1961	324	218.8	222.7	317.5	-101.3		
2778	1	2S13W10A01	4/4/1961	324.2	218.8	222.7	317.7	-101.5		
2778	1	2S13W10A01	3/8/1961	325.2	218.8	222.7	318.7	-102.5		
2778	1	2S13W10A01	2/6/1961	323.5	218.8	222.7	317	-100.8		
2778	1	2S13W10A01	1/4/1961	323.2	218.8	222.7	316.7	-100.5		
2778	1	2S13W10A01	12/7/1960	324.8	218.8	222.7	318.3	-102.1		
2778	1	2S13W10A01	11/1/1960	327.5	218.8	222.7	321	-104.8		
2778	1	2S13W10A01	10/4/1960	326.6	218.8	222.7	320.1	-103.9		
2778	1	2S13W10A01	8/30/1960	327.5	218.8	222.7	321	-104.8		
2778	1	2S13W10A01	8/2/1960	325.6	218.8	222.7	319.1	-102.9		

2778	1	2S13W10A01	7/11/1960	322.4	218.8	222.7	315.9	-99.7		
2778	1	2S13W10A01	6/8/1960	323.2	218.8	222.7	316.7	-100.5		
2778	1	2S13W10A01	5/3/1960	322.5	218.8	222.7	316	-99.8		
2778	1	2S13W10A01	4/12/1960	322.3	218.8	222.7	315.8	-99.6		
2778	1	2S13W10A01	3/2/1960	323.1	218.8	222.7	316.6	-100.4		
2778	1	2S13W10A01	2/10/1960	322	218.8	222.7	315.5	-99.3		
2778	1	2S13W10A01	1/5/1960	319.7	218.8	222.7	313.2	-97		
2778	1	2S13W10A01	12/8/1959	320	218.8	222.7	313.5	-97.3		
2778	1	2S13W10A01	11/2/1959	319.7	218.8	222.7	313.2	-97		
2778	1	2S13W10A01	10/5/1959	320.1	218.8	222.7	313.6	-97.4		
2778	1	2S13W10A01	9/1/1959	321	218.8	222.7	314.5	-98.3		
2778	1	2S13W10A01	8/3/1959	319.3	218.8	222.7	312.8	-96.6		
2778	1	2S13W10A01	7/6/1959	316	218.8	222.7	309.5	-93.3		
2778	1	2S13W10A01	6/1/1959	316.2	218.8	222.7	309.7	-93.5		
2778	1	2S13W10A01	5/4/1959	317	218.8	222.7	310.5	-94.3		
2778	1	2S13W10A01	4/7/1959	316	218.8	222.7	309.5	-93.3		
2778	1	2S13W10A01	3/2/1959	317	218.8	222.7	310.5	-94.3		
2778	1	2S13W10A01	2/3/1959	315.2	218.8	222.7	308.7	-92.5		
2778	1	2S13W10A01	1/12/1959	312.5	218.8	222.7	306	-89.8		
2778	1	2S13W10A01	12/9/1958	317.4	218.8	222.7	310.9	-94.7		
2778	1	2S13W10A01	11/19/1958	318	218.8	222.7	311.5	-95.3		
2778	1	2S13W10A01	11/19/1958	318	218.8	222.7	317	-95.3		
2778	1	2S13W10A01	11/3/1958	317.3	218.8	222.7	310.8	-94.6		
2778	1	2S13W10A01	10/7/1958	319	218.8	222.7	312.5	-96.3		
2778	1	2S13W10A01	9/15/1958		218.8	222.7			Special (specify)	
2778	1	2S13W10A01	8/4/1958	314.1	218.8	222.7	307.6	-91.4		
2778	1	2S13W10A01	7/14/1958	314.5	218.8	222.7	308	-91.8		
2778	1	2S13W10A01	6/10/1958	315.8	218.8	222.7	309.3	-93.1		
2778	1	2S13W10A01	5/20/1958	314.9	218.8	222.7	308.4	-92.2		
2778	1	2S13W10A01	4/29/1958	312.2	218.8	222.7	305.7	-89.5		
2778	1	2S13W10A01	4/15/1958	310.3	218.8	222.7	303.8	-87.6		
2778	1	2S13W10A01	4/4/1958	312.9	218.8	222.7	306.4	-90.2		
2778	1	2S13W10A01	4/4/1958	312.9	218.8	222.7	311.9	-90.2		
2778	1	2S13W10A01	3/3/1958	311.9	218.8	222.7	305.4	-89.2		
2778	1	2S13W10A01	2/11/1958	312.8	218.8	222.7	306.3	-90.1		
2778	1	2S13W10A01	1/7/1958	312.3	218.8	222.7	305.8	-89.6		
2778	1	2S13W10A01	12/4/1957	311	218.8	222.7	304.5	-88.3		
2778	1	2S13W10A01	10/9/1957	318.5	218.8	222.7	312	-95.8		
2778	1	2S13W10A01	10/9/1957	318.5	218.8	222.7	317.5	-95.8		
2778	1	2S13W10A01	10/8/1957	310.2	218.8	222.7	303.7	-87.5		
2778	1	2S13W10A01	10/1/1957	306.3	218.8	222.7	299.8	-83.6		
2778	1	2S13W10A01	9/3/1957	311.4	218.8	222.7	304.9	-88.7		

2778	1	2S13W10A01	8/5/1957	311.2	218.8	222.7	304.7	-88.5		
2778	1	2S13W10A01	7/1/1957	310.5	218.8	222.7	304	-87.8		
2778	1	2S13W10A01	6/4/1957	309.3	218.8	222.7	302.8	-86.6		
2778	1	2S13W10A01	4/3/1957	306.2	218.8	222.7	299.7	-83.5		
2778	1	2S13W10A01	4/3/1957	306.2	218.8	222.7	305.2	-83.5		
2778	1	2S13W10A01	4/1/1957	304.6	218.8	222.7	298.1	-81.9		
2778	1	2S13W10A01	3/4/1957	304.4	218.8	222.7	297.9	-81.7		
2778	1	2S13W10A01	2/4/1957	304.8	218.8	222.7	298.3	-82.1		
2778	1	2S13W10A01	1/2/1957	303.8	218.8	222.7	297.3	-81.1		
2778	1	2S13W10A01	12/5/1956	305.1	218.8	222.7	298.6	-82.4		
2778	1	2S13W10A01	11/7/1956	305.4	218.8	222.7	298.9	-82.7		
2778	1	2S13W10A01	10/2/1956	294.5	218.8	222.7	288	-71.8		For office use only
2778	1	2S13W10A01	9/5/1956	303.9	218.8	222.7	297.4	-81.2		
2778	1	2S13W10A01	8/7/1956	302	218.8	222.7	295.5	-79.3		
2778	1	2S13W10A01	7/9/1956	302.9	218.8	222.7	296.4	-80.2		
2778	1	2S13W10A01	6/12/1956	304.8	218.8	222.7	298.3	-82.1		
2778	1	2S13W10A01	5/1/1956	299.1	218.8	222.7	292.6	-76.4		
2778	1	2S13W10A01	4/2/1956	299.4	218.8	222.7	292.9	-76.7		
2778	1	2S13W10A01	2/6/1956	297.9	218.8	222.7	291.4	-75.2		
2778	1	2S13W10A01	1/4/1956	298.5	218.8	222.7	292	-75.8		
2778	1	2S13W10A01	10/4/1955	298.1	218.8	222.7	291.6	-75.4		
2778	1	2S13W10A01	8/29/1955	297.5	218.8	222.7	291	-74.8		
2778	1	2S13W10A01	8/1/1955	296.2	218.8	222.7	289.7	-73.5		
2778	1	2S13W10A01	7/5/1955	292.9	218.8	222.7	286.4	-70.2		
2778	1	2S13W10A01	6/1/1955	292.5	218.8	222.7	286	-69.8		
2778	1	2S13W10A01	4/6/1955	291.9	218.8	222.7	285.4	-69.2		
2778	1	2S13W10A01	3/1/1955	290.2	218.8	222.7	283.7	-67.5		
2778	1	2S13W10A01	2/2/1955	290.7	218.8	222.7	284.2	-68		
2778	1	2S13W10A01	11/8/1954	287.7	218.8	222.7	281.2	-65		
2778	1	2S13W10A01	10/18/1954	288.3	218.8	222.7	281.8	-65.6		
2778	1	2S13W10A01	9/10/1954	294.8	218.8	222.7	288.3	-72.1		
2778	1	2S13W10A01	8/9/1954	286.8	218.8	222.7	280.3	-64.1		
2778	1	2S13W10A01	7/6/1954	282	218.8	222.7	275.5	-59.3		
2778	1	2S13W10A01	6/1/1954	281.3	218.8	222.7	274.8	-58.6		
2778	1	2S13W10A01	5/18/1954	282.6	218.8	222.7	276.1	-59.9		
2778	1	2S13W10A01	4/6/1954	280.7	218.8	222.7	274.2	-58		
2778	1	2S13W10A01	3/8/1954	280.5	218.8	222.7	274	-57.8		
2778	1	2S13W10A01	2/2/1954	280.1	218.8	222.7	273.6	-57.4		
2778	1	2S13W10A01	1/6/1954	280.4	218.8	222.7	273.9	-57.7		
2778	1	2S13W10A01	12/4/1953	280.2	218.8	222.7	273.7	-57.5		
2778	1	2S13W10A01	11/3/1953	279.5	218.8	222.7	273	-56.8		
2778	1	2S13W10A01	10/5/1953	279.1	218.8	222.7	272.6	-56.4		

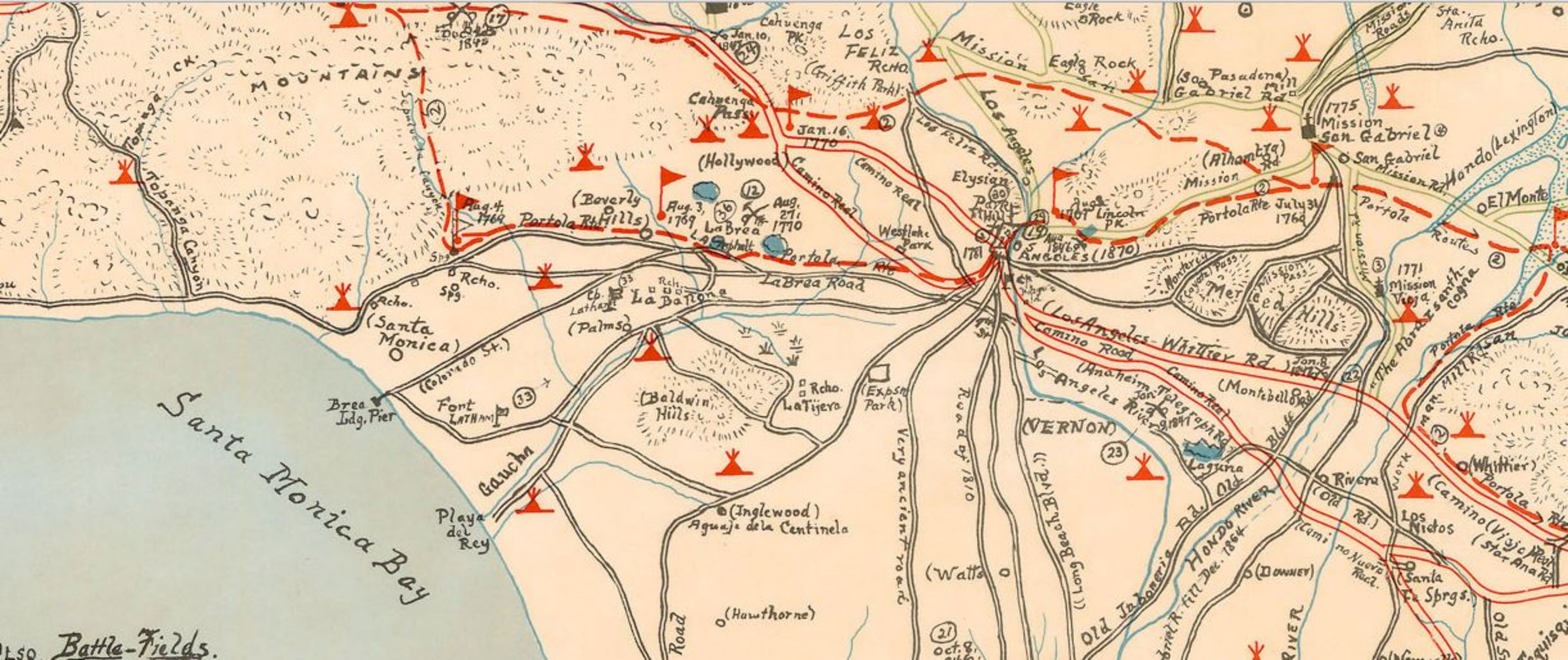
2778	1	2S13W10A01	8/31/1953	277.7	218.8	222.7	271.2	-55		
2778	1	2S13W10A01	8/11/1953	277.5	218.8	222.7	271	-54.8		
2778	1	2S13W10A01	7/7/1953	275.5	218.8	222.7	269	-52.8		
2778	1	2S13W10A01	6/1/1953	271.3	218.8	222.7	264.8	-48.6		
2778	1	2S13W10A01	5/13/1953	273.1	218.8	222.7	266.6	-50.4		
2778	1	2S13W10A01	4/1/1953	271	218.8	222.7	264.5	-48.3		
2778	1	2S13W10A01	3/3/1953	268.1	218.8	222.7	261.6	-45.4		
2778	1	2S13W10A01	2/2/1953	267.9	218.8	222.7	261.4	-45.2		
2778	1	2S13W10A01	1/6/1953	271.7	218.8	222.7	265.2	-49		
2778	1	2S13W10A01	12/17/1952	271.9	218.8	222.7	265.4	-49.2		
2778	1	2S13W10A01	11/5/1952	268.5	218.8	222.7	262	-45.8		
2778	1	2S13W10A01	9/29/1952	265.1	218.8	222.7	258.6	-42.4		
2778	1	2S13W10A01	8/25/1952	267.8	218.8	222.7	258.5	-45.1		
2778	1	2S13W10A01	7/2/1952	267.5	218.8	222.7	258.2	-44.8		
2778	1	2S13W10A01	6/4/1952	267.3	218.8	222.7	258	-44.6		
2778	1	2S13W10A01	5/12/1952	266.8	218.8	222.7	257.5	-44.1		
2778	1	2S13W10A01	4/2/1952	265.6	218.8	222.7	256.3	-42.9		
2778	1	2S13W10A01	3/4/1952	264.3	218.8	222.7	255	-41.6		
2778	1	2S13W10A01	2/4/1952	258.7	218.8	222.7	252.2	-36		
2778	1	2S13W10A01	1/8/1952	259.5	218.8	222.7	253	-36.8		
2778	1	2S13W10A01	11/6/1951	260.7	218.8	222.7	254.2	-38		
2778	1	2S13W10A01	10/2/1951	261.1	218.8	222.7	254.6	-38.4		
2778	1	2S13W10A01	9/12/1951	258.9	218.8	222.7	252.4	-36.2		
2778	1	2S13W10A01	8/6/1951	257.2	218.8	222.7	250.7	-34.5		
2778	1	2S13W10A01	7/3/1951	255.5	218.8	222.7	249	-32.8		
2778	1	2S13W10A01	6/5/1951	253.4	218.8	222.7	246.9	-30.7		
2778	1	2S13W10A01	5/1/1951	251.8	218.8	222.7	245.3	-29.1		
2778	1	2S13W10A01	4/11/1951	255.8	218.8	222.7	249.3	-33.1		
2778	1	2S13W10A01	3/12/1951	255	218.8	222.7	248.5	-32.3		
2778	1	2S13W10A01	2/6/1951	252.1	218.8	222.7	245.6	-29.4		
2778	1	2S13W10A01	1/3/1951	250.6	218.8	222.7	244.1	-27.9		
2778	1	2S13W10A01	12/5/1950	250.8	218.8	222.7	244.3	-28.1		
2778	1	2S13W10A01	10/30/1950	250.1	218.8	222.7	243.6	-27.4		
2778	1	2S13W10A01	9/26/1950	246.3	218.8	222.7	239.8	-23.6		
2778	1	2S13W10A01	8/14/1950	244.2	218.8	222.7	237.7	-21.5		
2778	1	2S13W10A01	7/10/1950	241.7	218.8	222.7	235.2	-19		
2778	1	2S13W10A01	6/5/1950	238.5	218.8	222.7	232	-15.8		
2778	1	2S13W10A01	5/10/1950	239.3	218.8	222.7	232.8	-16.6		
2778	1	2S13W10A01	4/10/1950	234.8	218.8	222.7	228.3	-12.1		
2778	1	2S13W10A01	12/7/1949	222	218.8	222.7	215.5	0.7		
2778	1	2S13W10A01	10/4/1949	222	218.8	222.7	215.5	0.7		
2778	1	2S13W10A01	8/31/1949	222	218.8	222.7	215.5	0.7		

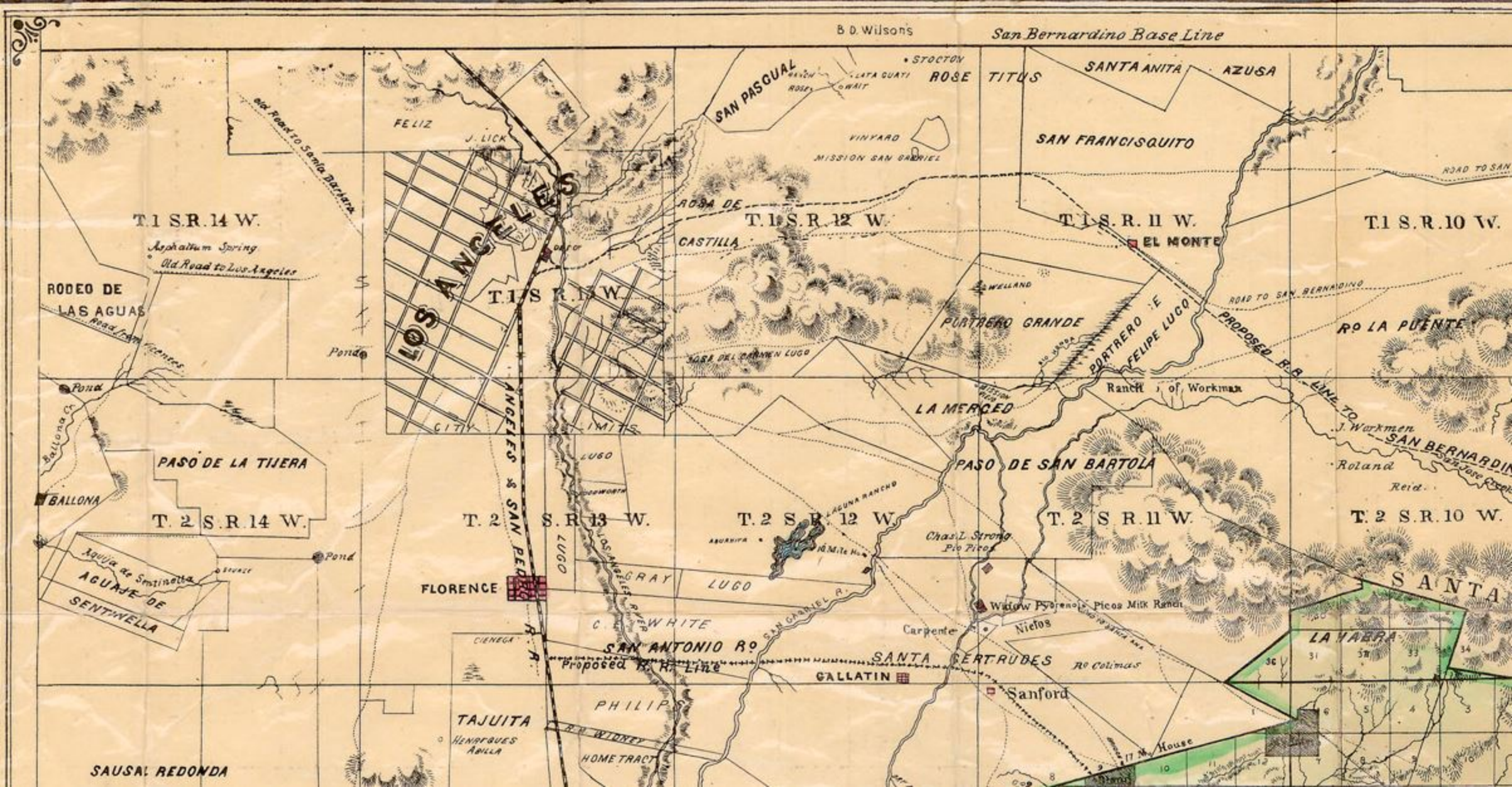
2778	1	2S13W10A01	8/1/1949	222	218.8	222.7	215.5	0.7		
2778	1	2S13W10A01	7/5/1949	222	218.8	222.7	215.5	0.7		
2778	1	2S13W10A01	6/14/1949	278.9	218.8	222.7	275	-56.2		
2778	1	2S13W10A01	6/7/1949	221.6	218.8	222.7	215.1	1.1		
2778	1	2S13W10A01	5/4/1949	220.5	218.8	222.7	214	2.2		
2778	1	2S13W10A01	4/5/1949	219	218.8	222.7	212.5	3.7		
2778	1	2S13W10A01	3/14/1949	219	218.8	222.7	212.5	3.7		
2778	1	2S13W10A01	2/21/1949	219.6	218.8	222.7	213.1	3.1		
2778	1	2S13W10A01	1/26/1949	221.5	218.8	222.7	215	1.2		
2778	1	2S13W10A01	12/7/1948	222	218.8	222.7	215.5	0.7		
2778	1	2S13W10A01	11/7/1948	222	218.8	222.7	215.5	0.7		
2778	1	2S13W10A01	10/13/1948	222.5	218.8	222.7	216	0.2		
2778	1	2S13W10A01	9/1/1948	220.8	218.8	222.7	214.3	1.9		
2778	1	2S13W10A01	8/3/1948	219.1	218.8	222.7	212.6	3.6		
2778	1	2S13W10A01	7/13/1948	216.8	218.8	222.7	210.3	5.9		
2778	1	2S13W10A01	6/22/1948	214	218.8	222.7	207.5	8.7		
2778	1	2S13W10A01	5/9/1948	207.2	218.8	222.7	200.7	15.5		
2778	1	2S13W10A01	4/2/1948	206.6	218.8	222.7	200.1	16.1		
2778	1	2S13W10A01	3/1/1948	204.8	218.8	222.7	198.3	17.9		
2778	1	2S13W10A01	2/2/1948	204.3	218.8	222.7	197.8	18.4		
2778	1	2S13W10A01	1/5/1948	203.3	218.8	222.7	196.8	19.4		
2778	1	2S13W10A01	12/15/1947	203.9	218.8	222.7	197.4	18.8		
2778	1	2S13W10A01	11/17/1947	197	218.8	222.7	190.5	25.7		
2778	1	2S13W10A01	10/6/1947	194.5	218.8	222.7	188	28.2		
2778	1	2S13W10A01	8/4/1947	192.1	218.8	222.7	185.6	30.6		
2778	1	2S13W10A01	7/1/1947	191.3	218.8	222.7	184.8	31.4		
2778	1	2S13W10A01	6/2/1947	191.8	218.8	222.7	185.3	30.9		
2778	1	2S13W10A01	5/12/1947	193.5	218.8	222.7	187	29.2		
2778	1	2S13W10A01	4/7/1947	192.2	218.8	222.7	185.7	30.5		
2778	1	2S13W10A01	3/10/1947	192.2	218.8	222.7	185.7	30.5		
2778	1	2S13W10A01	2/4/1947	188.1	218.8	222.7	181.6	34.6		
2778	1	2S13W10A01	1/8/1947	187.6	218.8	222.7	185.1	35.1		
2778	1	2S13W10A01	12/1/1946	189.2	218.8	222.7	186.7	33.5		
2778	1	2S13W10A01	11/4/1946	187.9	218.8	222.7	185.4	34.8		
2778	1	2S13W10A01	10/2/1946	187.7	218.8	222.7	185.2	35		
2778	1	2S13W10A01	8/5/1946	183.9	218.8	222.7	181.4	38.8		
2778	1	2S13W10A01	7/1/1946	183.7	218.8	222.7	181.2	39		
2778	1	2S13W10A01	6/3/1946	186.6	218.8	222.7	184.1	36.1		
2778	1	2S13W10A01	5/6/1946	182.8	218.8	222.7	180.3	39.9		
2778	1	2S13W10A01	4/24/1946	183.4	218.8	222.7	180.9	39.3		
2778	1	2S13W10A01	3/4/1946	181	218.8	222.7	180	41.7		
2778	1	2S13W10A01	11/29/1945	180.5	218.8	222.7	179.5	42.2		

2778	1	2S13W10A01	4/12/1945	173.4	218.8	222.7	172.4	49.3		
2778	1	2S13W10A01	4/22/1941	157	218.8	222.7	156	65.7		
2778	1	2S13W10A01	2/22/1940	150.9	218.8	222.7	149.9	71.8		
2778	1	2S13W10A01	1/29/1940	150.5	218.8	222.7	149.5	72.2		
2778	1	2S13W10A01	12/22/1939	151.2	218.8	222.7	150.2	71.5		
2778	1	2S13W10A01	10/12/1939	150.9	218.8	222.7	149.9	71.8		
2778	1	2S13W10A01	6/12/1939	147.2	218.8	222.7	146.2	75.5		
2778	1	2S13W10A01	5/11/1939	146.6	218.8	222.7	145.6	76.1		
2778	1	2S13W10A01	4/7/1939	146	218.8	222.7	145	76.7		
2778	1	2S13W10A01	3/9/1939	146.2	218.8	222.7	145.2	76.5		
2778	1	2S13W10A01	2/15/1939	146.3	218.8	222.7	145.3	76.4		
2778	1	2S13W10A01	1/31/1939	147.2	218.8	222.7	146.2	75.5		
2778	1	2S13W10A01	11/4/1938	145.3	218.8	222.7	144.3	77.4		
2778	1	2S13W10A01	6/23/1938		218.8	222.7			Casing leaking or wet	
2778	1	2S13W10A01	5/10/1938		218.8	222.7			Casing leaking or wet	
2778	1	2S13W10A01	3/30/1938		218.8	222.7			Casing leaking or wet	
2778	1	2S13W10A01	11/17/1937	153	218.8	222.7	152	69.7		
2778	1	2S13W10A01	9/9/1937	151.8	218.8	222.7	150.8	70.9		
2778	1	2S13W10A01	8/2/1937	151	218.8	222.7	150	71.7		
2778	1	2S13W10A01	7/1/1937	150.4	218.8	222.7	149.4	72.3		
2778	1	2S13W10A01	6/1/1937	150	218.8	222.7	149	72.7		
2778	1	2S13W10A01	4/28/1937	151.8	218.8	222.7	150.8	70.9		
2778	1	2S13W10A01	3/31/1937	152.1	218.8	222.7	151.1	70.6		
2778	1	2S13W10A01	2/16/1937	152.8	218.8	222.7	151.8	69.9		
2778	1	2S13W10A01	1/15/1937	153	218.8	222.7	152	69.7		
2778	1	2S13W10A01	12/1/1936	153	218.8	222.7	152	69.7		
2778	1	2S13W10A01	10/26/1936	152.4	218.8	222.7	151.4	70.3		
2778	1	2S13W10A01	9/22/1936	152.1	218.8	222.7	151.1	70.6		
2778	1	2S13W10A01	8/12/1936	151.1	218.8	222.7	150.1	71.6		
2778	1	2S13W10A01	7/9/1936	149.7	218.8	222.7	148.7	73		
2778	1	2S13W10A01	7/8/1936	149.5	218.8	222.7	148.5	73.2		
2778	1	2S13W10A01	7/7/1936	149.3	218.8	222.7	148.3	73.4		
2778	1	2S13W10A01	7/6/1936	149.3	218.8	222.7	148.3	73.4		
2778	1	2S13W10A01	7/5/1936	149.3	218.8	222.7	148.3	73.4		
2778	1	2S13W10A01	7/4/1936	149.6	218.8	222.7	148.6	73.1		
2778	1	2S13W10A01	7/3/1936	149.6	218.8	222.7	148.6	73.1		
2778	1	2S13W10A01	7/2/1936	149.6	218.8	222.7	148.6	73.1		
2778	1	2S13W10A01	7/1/1936	149.5	218.8	222.7	148.5	73.2		
2778	1	2S13W10A01	6/30/1936	149.5	218.8	222.7	148.5	73.2		
2778	1	2S13W10A01	6/29/1936	149.4	218.8	222.7	148.4	73.3		
2778	1	2S13W10A01	6/28/1936	149.5	218.8	222.7	148.5	73.2		
2778	1	2S13W10A01	6/27/1936	149.7	218.8	222.7	148.7	73		

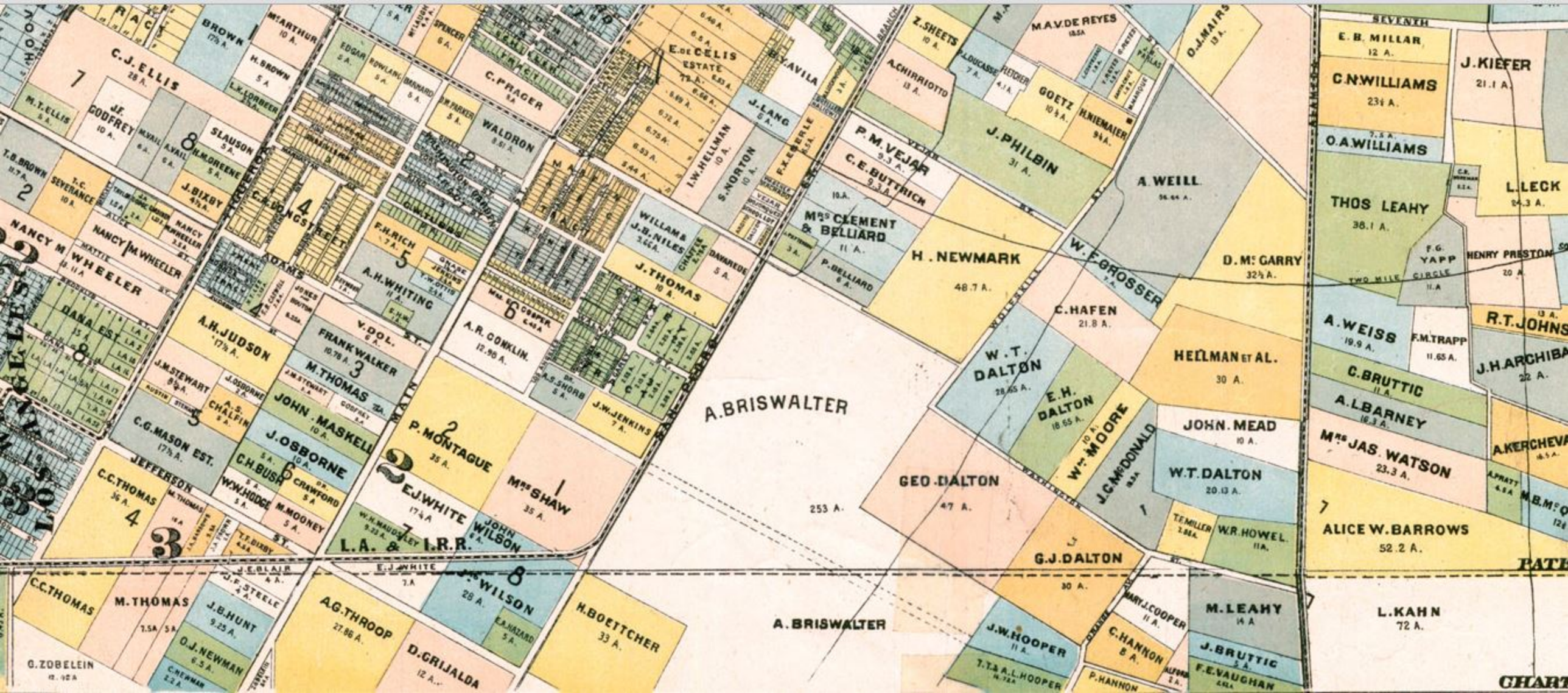
2778	1	2S13W10A01	6/26/1936	149.6	218.8	222.7	148.6	73.1		
2778	1	2S13W10A01	6/25/1936	149.4	218.8	222.7	148.4	73.3		
2778	1	2S13W10A01	6/24/1936	149.4	218.8	222.7	148.4	73.3		
2778	1	2S13W10A01	6/23/1936	149.3	218.8	222.7	148.3	73.4		
2778	1	2S13W10A01	6/22/1936	149.1	218.8	222.7	148.1	73.6		
2778	1	2S13W10A01	6/21/1936	149.2	218.8	222.7	148.2	73.5		
2778	1	2S13W10A01	6/20/1936	149.3	218.8	222.7	148.3	73.4		
2778	1	2S13W10A01	6/19/1936	149.3	218.8	222.7	148.3	73.4		
2778	1	2S13W10A01	6/18/1936	149.2	218.8	222.7	148.2	73.5		
2778	1	2S13W10A01	6/17/1936	149.1	218.8	222.7	148.1	73.6		
2778	1	2S13W10A01	6/16/1936	149.1	218.8	222.7	148.1	73.6		
2778	1	2S13W10A01	6/15/1936	149	218.8	222.7	148	73.7		
2778	1	2S13W10A01	6/14/1936	149.2	218.8	222.7	148.2	73.5		
2778	1	2S13W10A01	6/13/1936	149.2	218.8	222.7	148.2	73.5		
2778	1	2S13W10A01	6/12/1936	149.1	218.8	222.7	148.1	73.6		
2778	1	2S13W10A01	6/11/1936	149	218.8	222.7	148	73.7		
2778	1	2S13W10A01	6/10/1936	148.8	218.8	222.7	147.8	73.9		
2778	1	2S13W10A01	6/9/1936	148.7	218.8	222.7	147.7	74		
2778	1	2S13W10A01	6/8/1936	148.6	218.8	222.7	147.6	74.1		
2778	1	2S13W10A01	6/7/1936	148.7	218.8	222.7	147.7	74		
2778	1	2S13W10A01	6/6/1936	148.8	218.8	222.7	147.8	73.9		
2778	1	2S13W10A01	6/5/1936	148.8	218.8	222.7	147.8	73.9		
2778	1	2S13W10A01	6/4/1936	148.8	218.8	222.7	147.8	73.9		
2778	1	2S13W10A01	6/3/1936	148.8	218.8	222.7	147.8	73.9		
2778	1	2S13W10A01	6/2/1936	148.6	218.8	222.7	147.6	74.1		
2778	1	2S13W10A01	6/1/1936	148.3	218.8	222.7	147.3	74.4		

Jefferson
High School


Also Battle-Fields.
Santa Monica Bay
MOUNTAINS
Topanga Canyon
Topanga Ck.
Sepulveda Canyon
Aug. 4, 1769
Portola Rte.
Rcho. Spg.
(Santa Monica)
(Colorado St.)
Brea Ldg. Pier
Fort LATHAM
Gaucha
Playa del Rey
(Baldwin Hills)
Rcho. La Tijera
(Expsn Park)
La Brea Road
La Brea Pit
Aug. 3, 1769
Aug. 27, 1770
(Beverly Hills)
(Hollywood)
Cahuenga Pass
Cahuenga Pk.
Jan. 16, 1770
Camino Real
Westlake Park
LOS FELIZ RCHO.
(Griffith Park)
Los Feliz Rd.
Los Angeles
Elysian Park
Aug. 1781
LOS ANGELES (1870)
Mission
Eagle Rock
Eagle Rock
(Alhambra) Rd.
Mission
Portola Rte. July 31, 1769
Lincoln Pk.
(Los Angeles-Whittier Rd.)
Camino Road
(Anaheim Telegraph Rd.)
Los Angeles River
(VERNON)
Laguna
Old Bluff Road
(Montebello Rd.)
Rio Hondo
Very ancient road
(Inglewood)
Aguaje de la Centinela
(Hawthorne)
Road
(Watts)
(Long Beach Rd.)
Old Jonesia Rd.
HONDO RIVER
Rivera
(Old Rd.)
Camino Nuevo Road
(Donner)
Los Nietos
Santa Fe Sprgs.
(Whittier)
Portola Rte.
(Camino (Viejo) Real)
(Star Ana Rd.)
Mission Pass
Mission Hills
Mission Rd.
Mission Rd.
Mission Roads
Sta. Anita Rcho.
Pasadena
(San Gabriel) Mill Rd.
1775 Mission San Gabriel
San Gabriel
Hondo (Lexington)
El Monte
Portola Routes
1771 Mission Viejo
The Abbot's Santa Cogna
Man. Mill Rd. San
Portola Rte.



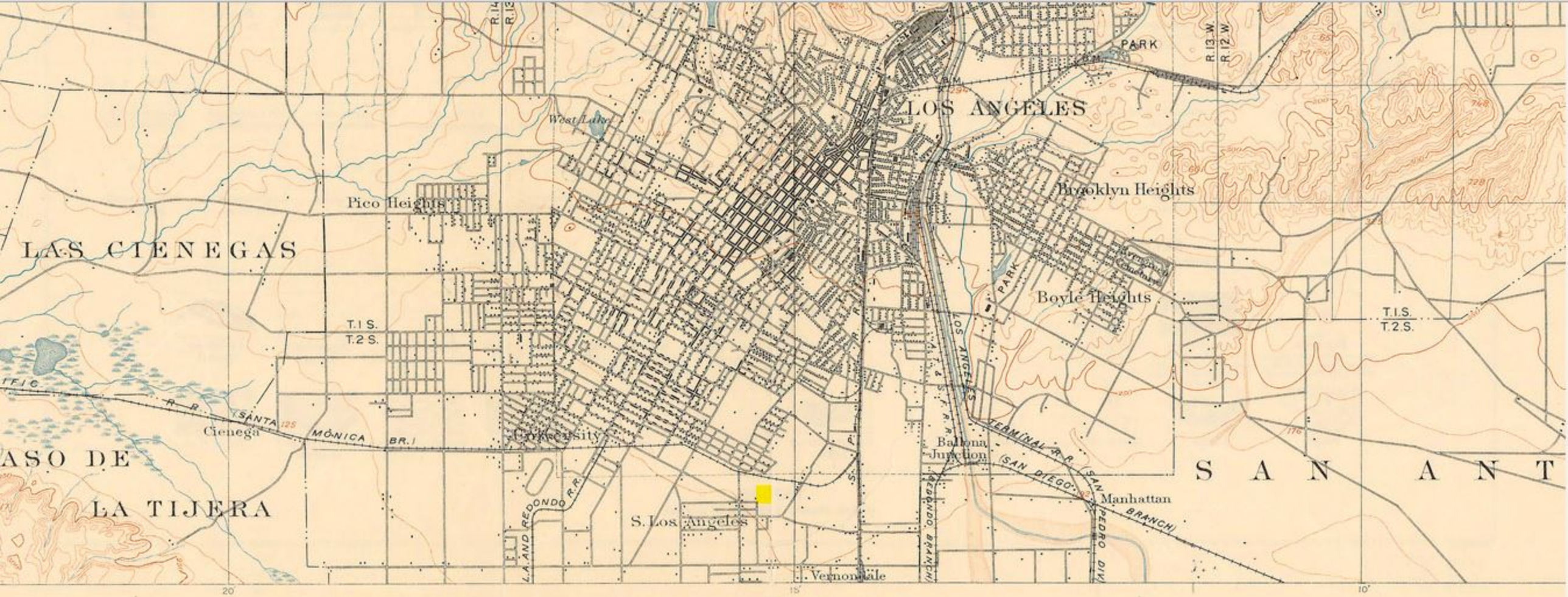
B. D. Wilson's
San Bernardino Base Line
STOCTON
ROSE TITUS
SANTA ANITA
AZUSA
SAN PASCUAL
LATA GUATI
WAIT
VINYARD
MISSION SAN GABRIEL
SAN FRANCISQUITO
ROAD TO SAN
FELIZ
J. LICK
Old Road to Santa Barbara
LOS ANGELES
ROSA DE CASTILLA
T. 1 S. R. 14 W.
T. 1 S. R. 12 W.
T. 1 S. R. 11 W.
T. 1 S. R. 10 W.
EL MONTE
Asphaltum Spring
Old Road to Los Angeles
RODEO DE LAS AGUAS
Road from Vicentes
T. 1 S. R. 13 W.
WELLAND
PORTRERO GRANDE
PORTRERO DE FELIPE LUGO
ROAD TO SAN BERNARDINO
PROPOSED R. R. LINE TO SAN BERNARDINO
Rº LA PUENTE
Pond
JOSE DEL CARMEN LUGO
Ranch of Workman
LA MERCED
J. Workmen
Roland
Reid
Ballona Cr.
CITY LIMITS
PASO DE LA TIJERA
LUGO
PASO DE SAN BARTOLA
BALLONA
T. 2 S. R. 14 W.
T. 2 S. R. 13 W.
T. 2 S. R. 12 W.
T. 2 S. R. 11 W.
T. 2 S. R. 10 W.
LAGUNA RANCHO
Chas. L. Strong
Pio Picos
Aguija de Sentinella
AGUAJE DE SENTINELLA
FLORENCE
GRAY
LUGO
SAN GABRIEL R.
Widow Pyrenees
Picos Milk Ranch
SANTA
C. E. WHITE
Carpente
Nietos
LA HABRA
CIENEGA
SAN ANTONIO Rº
Proposed R. R. Line
SANTA GERTRUDES
Rº Colimas
GALLATIN
Sanford
PHILIPS
TAJUITA
HENRIQUES ABILLA
R. R. WIDNEY
HOME TRACT
SAUSAL REDONDA
17 M. House



LOS ANGELES
C.J. ELLIS 28 A.
J.F. GODFREY 10 A.
M.T. ELLIS 5 A.
BROWN 17½ A.
McARTHUR 10 A.
H. BROWN 5 A.
SLAUSON 5 A.
H.M. GREENE 5 A.
J. BIXBY 4½ A.
T.B. BROWN 11.7 A.
T.C. SEVERANCE 10 A.
NANCY M. WHEELER
NANCY M. WHEELER
DANA EST.
A.H. JUDSON 17½ A.
J.M. STEWART 8½ A.
A.S. CHALFIN 5 A.
C.G. MASON EST. 17½ A.
JEFFERSON
C.C. THOMAS 36 A.
M. THOMAS
J.B. HUNT 9.25 A.
O.J. NEWMAN 6.5 A.
G. ZOBELEIN
C.A. LONGSTREET
ADAMS
F.H. RICH 7 A.
A.H. WHITING 11 A.
V. DOL. 6 A.
FRANK WALKER 10.78 A.
M. THOMAS
JOHN MASKELL 10 A.
J. OSBORNE 10 A.
C.H. BUSH
W.W. HODGE 5 A.
M. MOONEY 5 A.
CRAWFORD 5 A.
A.G. THROOP 27.86 A.
D. GRIJALDA 12 A.
J.E. BLAIR 4 A.
J.F. STEELE 4 A.
E.J. WHITE 7 A.
J.W. WILSON 28 A.
E.A. HAZARD 5 A.
H. BOETTCHER 33 A.
P. MONTAGUE 35 A.
E.J. WHITE 17¼ A.
JOHN WILSON 6 A.
Mrs SHAW 35 A.
L.A. & I.R.R.
A.R. CONKLIN 12.98 A.
A.S. SHORB 5 A.
J.W. JENKINS 7 A.
WILLAM & J.B. NILES 3.66 A.
J. THOMAS 10 A.
DAVAREDE 5 A.
E. DE CELIS ESTATE 72 A.
I.W. HELLMAN 10 A.
S. NORTON 10 A.
J. LANG 5 A.
B.Y. AVILA
F.X. EBERLE
Mrs CLEMENT & BELLIARD 11 A.
P. BELLIARD 6 A.
H. NEWMARK 48.7 A.
A. BRISWALTER 253 A.
A. BRISWALTER
Z. SHEETS 10 A.
A. CHIRRIOTTO 13 A.
P.M. VEJAR 9.3 A.
C.E. BUTTRICH 9.3 A.
J. PHILBIN 31 A.
M.A.V. DE REYES
GOETZ 10½ A.
H. NIEMAIER 9½ A.
A. WEILL
W.F. GROSSER 7 A.
C. HAFEN 21.8 A.
W.T. DALTON 28.65 A.
E.H. DALTON 18.65 A.
Wm MOORE 10 A.
J.C. McDONALD
GEO. DALTON 47 A.
G.J. DALTON 30 A.
J.W. HOOPER 11 A.
T.T. & A.L. HOOPER
C. HANNON 8 A.
P. HANNON
MARY J. COOPER 11 A.
M. LEAHY 14 A.
J. BRUTTIC 5 A.
F.E. VAUGHAN
O.J. MAIRS 13 A.
D. McGARRY 32½ A.
HELLMAN ET AL. 30 A.
JOHN MEAD 10 A.
W.T. DALTON 20.13 A.
T.F. MILLER
W.R. HOWEL 11 A.
L. KAHN 72 A.
SEVENTH
E.B. MILLAR 12 A.
C.N. WILLIAMS 23½ A.
J. KIEFER 21.1 A.
O.A. WILLIAMS
THOS LEAHY 38.1 A.
L. LECK 24.3 A.
F.G. YAPP 11 A.
HENRY PRESTON 20 A.
TWO MILE CIRCLE
A. WEISS 19.9 A.
F.M. TRAPP 11.65 A.
R.T. JOHNS 13 A.
J.H. ARCHIBA 22 A.
C. BRUTTIC 11 A.
A.L. BARNEY 16.3 A.
Mrs JAS. WATSON 23.3 A.
A. KERCHEVA 16.5 A.
ALICE W. BARROWS 52.2 A.
PATE
CHART

....I- 7	Olvera st. ....H- 9		
....F- 9	Olney st. ....N- 5		
....E- 8	Olympian ave. ....D- 8		
....C- 8	Omaha st. ....G- 7		
....C-12	Omar ave. ....I- 9		
....J-12	Ontario st. ....C- 6		
....G-11	Opal st. K-11		
....F-11	Orange st. ....H- 6		
....O- 6	Orchard ave. ....K- 4		
....J-14	Ord st. ....G- 9		
....I-10	Oregon K-12		
....K- 7	Orme ave. L-11		
....O- 9	Oro st. ....F- 6		
....L- 8	Ortega st. ....O- 7		
....E- 5	Ottawa st. ....I- 6		
....F-10	Otter st. ....F- 7		
....G-10	Outlet st. L-11		
....G- 9	Overton st. ....I- 6		
....H- 9	Oxford ave. ....I- 2		
....F-11	Pacheco st. ....F- 6		
....J- 4	Pacific ave. ....I- 4		
....F- 6	Paige C-14		
....A-15	Palm st. ....J- 7		
....H- 4	Palm Drive ....K- 6		
....H- 9	Palmer st. ....J- 9		
....I-12	Palmetto st. ....J- 9		
....K- 1	Palo Alto st. ....F- 7		
....K- 8	Paloma ave. ....K- 8		
....A-14	Palmer ave. ....F- 8		
....H-14	Paragon st. L-11		
....I- 7	Park ave. ....F- 7		
....O- 6	Park Grove ave. ....K- 5		
....G-13	Park View ave. ....H- 5		
....L- 3	Pasadena ave. C-12		
....J- 5	Patton st. ....G- 7		
....I- 6	Pavillion Place ....G- 9		

Philadelphia st. A-14	Rinehart st. H-12	Scarff st. ....K- 5	Stephenson ave. K-13	Turner st.
Philleo st. ....E- 6	Rio st. I-10	Schleffelin F-10	Stevens Place ....G- 9	Turtle ave.
Pico Place	Rio Vista ave. L-11	Schlesinger ....F- 9	Stewart st. ....I- 6	Twelfth st.
Pico st. ....I- 5	River st. D-11	Schumacher st. ....I- 3	Stockton st. ....H- 9	Twentieth
Piedmont ave. A-14	Rivera st. J-13	Scott ave. ....F- 7	Story st. H-13	Twenty-first
Pioneer ave. ....K- 2	Robinson st. ....E- 5	Seaton st. ....J- 9	Sugg st. ....E- 6	Twenty-seco
Plata st. ....F- 6	Robles st. G-11	Second st. ....H- 8	Sullivan ave. L-12	Twenty-thir
Plasa st. ....H- 9	Rockwood st. ....G- 7	Semple st. ....F- 5	Sulphur C-11	Twenty-four
Pleasant ave. H-11	Romeo st. ....J- 3	Seneca ave. ....O- 6	Summit ave. H-11	Twenty-fifth
Plymouth st. H-12	Romulo st. D-11	Sentous ....I- 6	Sumner Place ....F- 8	Twenty-seve
Pollard A-15	Rosabell st. G-10	Sepulveda ....I- 3	Sunbury ave. ....I- 6	Twenty-eigh
Pomeroy ave. H-13	Rosalind st. L-11	Seventh st. ....I- 8	Sunrise K-12	Twenty-nint
Pomona st. E-13	Rose st. ....I- 9	Seventeenth st. ....J- 5	Sunset Boulevard ....E- 7	Union ave.
Porter st. K-10	Rosecrans Way ....M- 5	Severance st. ....K- 5	Sutter st. ....I- 4	Upper oBul
Portia st. ....E- 8	Rosemont st. ....F- 6	Seville ....L- 1	Swift st. ....L- 5	Utah st.
Portland st. ....K- 5	Rossini L-14	Shatto st. ....H- 6	Sylvan ave. D-12	Valencia st.
Post st. E-12	Rowan st. F-13	Shearer st. ....K- 9	Tallman st. ....K- 4	Valentine
Powell st. ....J- 1	Rowland st. ....I- 4	Sheridan st. H-12	Tarleton ....L- 9	Vallejo
Poydras st. J-14	Roxbury st. ....I- 3	Sherman st. ....G- 5	Taylor st. ....D- 8	Valley
Preston ave. ....D- 8	Royal st. ....L- 5	Short st. ....I- 9	Teed st. ....G- 9	Valverde st.
Prichard st. F-13	Rubio ....O- 9	Sichel st. F-12	Tehama st. H-12	Vancouver
Princeton ave. ....D- 8	Ruby st. A-15	Sierra st. E-13	Tejon st. ....K- 1	Vargas st.
Prospect Drive B-13	Ruth ave. ....J- 9	Silver st. ....G- .	Temple st. ....G- 8	Velasco st.
Prospect Place H-11	Ruth Upham ave. D-14	Sinova st. C-14	Tennessee st. ....K- 9	Vendome st
Prudent st. G-10	Sabina st. K-13	Siskivou st. L-13	Tenth st. ....I- 7	Verde st.
Putnam st. G-12	Sacramento st. K-10	Sixth st. ....I- 8	Thalia st. ....K- 9	Vermont av
Quebec st. ....F- 6	Safford H-12	Sixteenth st. ....J- 6	Third st. ....H- 8	Vernon ave.
Queirolo st. G-10	San Benito st. H-12	Slauson ave. ....O- 5	Thirtieth st. ....L- 6	Vestal ave.
Quincy st. ....K- 4	Sanchefl (Sanchel st.) ....H- 9	Sloat st. I-13	Thirty-first st. ....L- 5	Victor st.
Quintero st. ....E- 8	San Diego st. ....O- 9	Smith st. ....E- 6	Thirty-second st. ....L- 5	Victoria st.
Railroad st. G-10	San Fernando st. F-10	Solano st. F-10	Thirty-third st. ....L- 5	View st.
Ramirez st. H-10	San Fernando Road D-10	Sonoma st. ....E- 6	Thirty-fifth st. ....L- 4	Vignes st.
Ramona ave. ....G- 8	San Joaquin st. ....G- 6	Sotello st. F-10	Thirty-sixth st. ....L- 4	Vineland st.
Rampart st. ....G- 5	San Julian st. ....J- 8	Soto st. J-12	Thirty-seventh st. ....L- 4	Viola st.
Raymond ave. ....K- 3	San Leandro st. L-10	Spence st. L-13	Thirty-eighth st. ....L- 4	Violet st.
Radcliff st. ....C- 6	San Marino st. ....H- 4	Spring st. ....I- 8	Thirty-ninth st. ....N- 7	Virgil ave.
Redondo st. G-10	San Pasqual st. A-15	St. Andrews Place ....I- 2	Thomas st. F-13	Visnaino (V
Redwood st. ....K- 9	San Pablo st. G-13	St Charles st. G-13	Thompson st. ....K- 5	Vista ave.
Reid st. ....I- 4	San Pedro st. ....K- 7	St. Elmo st. L-10	Thorne A-15	Von Keithla
Reed st. ....N- 5	Santa Barbara ave. ....M- 4	St. James st. G-10	Thornton ave. ....J- 4	Wabash ave
Reno ....E- 5	Santa Clara st. L-10	St. James Park ....K- 5	Thorp st. ....N- 5	Waco ave.
Repton A-15	Santa Cruz st. ....E- 6	St. John st. G-10	Toberman st. ....J- 5	Wadsworth
Republic ....H- 9	Santa Fe ave. I-10	St. Louis st. J-11	Toledo ave. A-14	Wall st.
Requna st. ....H- 9	Santa st. ....F- 8	St. Paul ave. ....H- 7	Toluca st. ....G- 7	Walnut st.



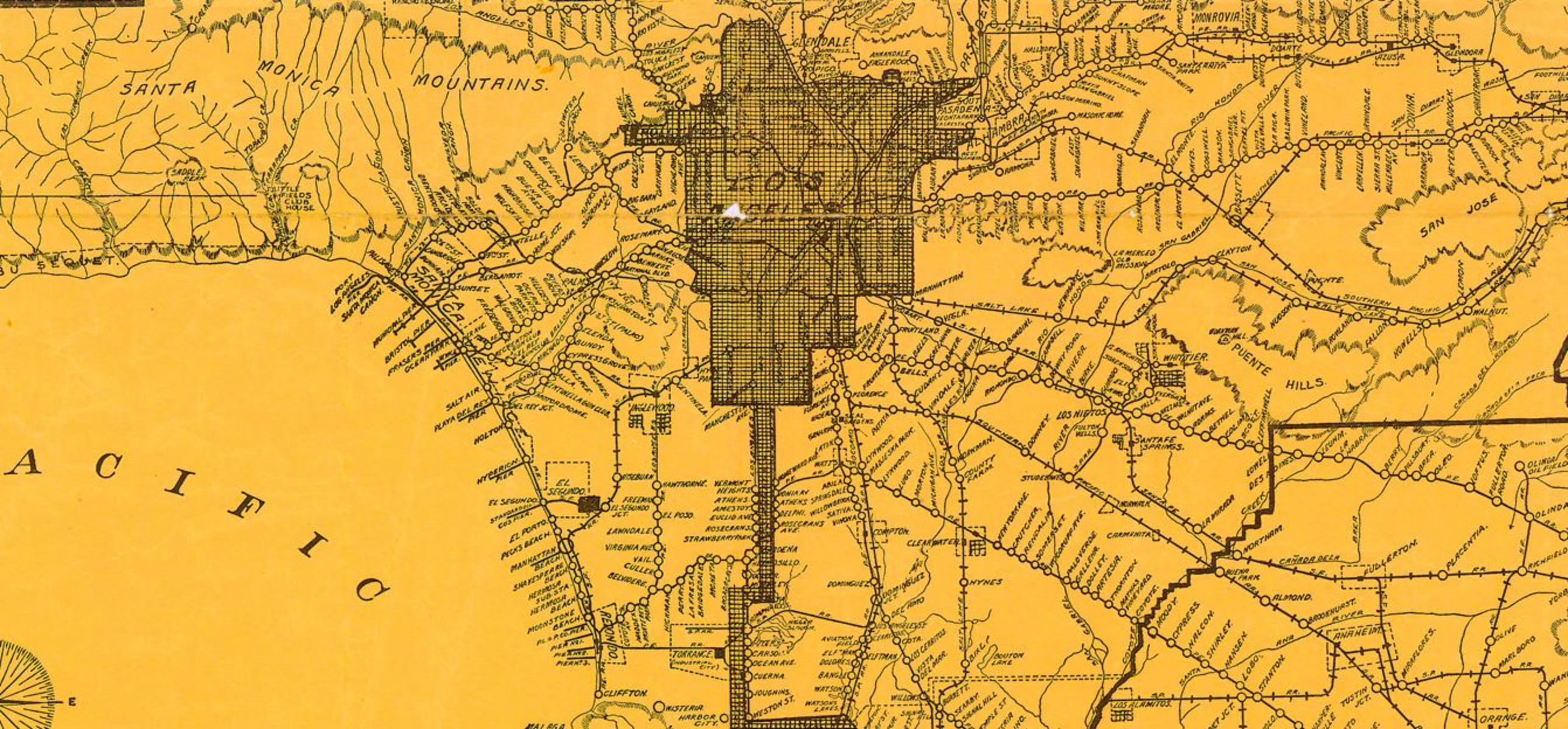
Scale $\frac{1}{62500}$

Miles

Kilometers

Contour interval 50 feet.

Datum is mean sea level.


SANTA MONICA MOUNTAINS.
PACIFIC
GLENDALE
PASADENA
SOUTH PASADENA
ALHAMBRA
MONROVIA
DUARTE
AZUSA
GLENDORA
SAN JOSE
PUENTE HILLS.
WHITTIER.
LOS NIETOS
SANTA FE SPRINGS.
NORWALK
CARMENITA
LA MIRADA
NORTHAM
FULLERTON.
PLACENTIA.
ANAHEIM
ORANGE.
LOS ALAMITOS.
COMPTON.
CLEARWATER
HYNES
DOMINGUEZ
TORRANCE.
CLIFFTON.
WISTERIA.
HARBOR CITY.
EL SEGUNDO.
INGLEWOOD.
MANHATTAN
SANTA MONICA
SADDLE PEAK
LITTLE FIELDS CLUB HOUSE
BU SEQUET.
SALT AIR
PLAYA DEL REY PIER
HOLTON
HYBERICH PIER
EL SEGUNDO
EL PORTO
PECKS BEACH
MANHATTAN BEACH
SHAKESPEARE BEACH
HERMOSA SUB STA
HERMOSA BEACH
MOONSTONE BEACH
REDONDO
LAWNDALE
VIRGINIA AVE
VAIL
CULLER
BELVIDERE
HAWTHORNE
FREEMAN
EL POSO
VERMONT HEIGHTS
ATHENS
AMESTOY
EUCLID AVE
DELPHI
ROSECRANS AVE
STRAWBERRY PARK
CARSON
OCEAN AVE
CUERNA
JOUGHINS
WESTON ST
ROSEMARY
PALMS
SUNSET
BERGAMOT
CYPRESS GROVE
MANHATTAN
SALT LAKE
PACIFIC
SOUTHERN
SAN GABRIEL
RIO HONDO
PUENTE
WALNUT
HOWELLS
FALLON
LEMON
COVINA
AZUSA
DOUTON LAKE
LOS CERRITOS
VISTA DEL MAR
DOMINGUEZ
AVIATION FIELD
ELFTMAN
DOLORES
BANGLE
WATSON
WATSON LAKES
WILLOWS
SEARBY
SEMPLE ST
SEARBY HILL
BIRCH
BURBANK
FLORENCE
BELLS
CUDAHY
VINEWOOD
LAGUNA
RIO HONDO
SOUTHERN
DOWNEY
FULTON WELLS
STUDEBAKER
NORWALK
CARMENITA
LA MIRADA
CANADA DELA
BUENA PARK
ALMOND
BROOKHURST
RIVER
ANA
SANTA
CYPRESS
HALCON
SHIRLEY
HANSEN
LOBO
STANTON
TUSTIN JCT
MARLBORO
OLIVE
MIRAFLORES
FULLERTON ROAD
OLINDA
BRERA
LOWEL
DES PINES
LEUMA
LA HABRA
BERRY
HILLSBURY
BREA
OLEO
FOFTUS
RICHFIELD
YORBA
E

DEPARTMENT OF BUILDING AND SAFETY

May 25, 2016

Document Report

Documents

Document Number(s)

1906LA05611

Record Description

Record ID: 9030739
Doc Type: BUILDING PERMIT
Sub Type: BLDG-NEW
Doc Date: 07/26/1906
Status: None
Doc Version: None
AKA Address: None
Project Name: None
Disaster ID: None
Subject: None
Product Name: None
Manufacturer's Name: None
Expired Date: None
Receipt Number: None
Case Number: None
Scan Number: None
Dwelling Units: None
Comments: This document shows the following information: Type Const 1 = D; Stories = 1.

Property Address(es)

1319 E 41ST ST

Legal Description(s)

Tract:
Block: Lot: Arb:
Modifier: Map Reference:

PIN(s)

115-5A211 9

Assessor Number(s)

5114-036-900

District Offices(s)

LA

DEPARTMENT OF BUILDING AND SAFETY

May 25, 2016

Document Report

Film RBF

Type: HIST P1005; 001; 0121

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Note: If you have any questions, please visit one of our Records Counter Section open Monday thru Fridays from 7:30 AM to 4:30 PM, EXCEPT on Wednesdays which opens from 9:00 AM to 4:30 PM.

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Locations: Metro - 201 N. Figueroa St., 1st Floor Rm. 110, Los Angeles CA 90012
Van Nuys - 6262 Van Nuys Blvd, 2nd Floor Van Nuys CA 91401

(Bldg. Dept. Form 2)

All applications must be filled out by applicant

WARD 6

PLANS AND SPECIFICATIONS and other data must also be filed

BOARD OF PUBLIC WORKS

DEPARTMENT OF BUILDINGS

2

Application for the Erection of Frame Building

CLASS "D"

To the Board of Public Works of the City of Los Angeles:

Application is hereby made to the Board of Public Works of the City of Los Angeles, through the office of the Chief Inspector of Buildings, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

TAKE TO ROOM No. 6 FIRST FLOOR ASSESSOR PLEASE VERIFY

Lot No. 33 Block 5.
(Description of Property)
Bowens Vernon & Hooper Ave Tract

District No. 14th M. B. Page 6a F. B. Page 106

O. K. City Assessor By ..... Deputy.

TAKE TO ROOM No. 34 THIRD FLOOR ENGINEER PLEASE VERIFY

No. 1319 E. 41st St.
(Location of Job)
..... Street

O. K. City Engineer By ..... Deputy.

(USE INK OR INDELIBLE PENCIL)

1. Purpose of Building Dwelling No. of Rooms 5 No. of families 1
2. Owner's name F. J. Cooper Phone JM 8988
3. Owner's address 1541 E 42nd St.
4. Architect's name ..... Phone .....
5. Contractor's name Globe Building Co. Phone JM 8988
6. Contractor's address 815 Higgins Bldg 77256
7. ENTIRE COST OF PROPOSED BUILDING {Including Plumbing, Gas Fitting, Sewers, Cesspools, Elevators, Painting, Finishing, etc.} $ 1600.00
8. Any other buildings on the lot? no How used? —
9. Size of proposed building 26 x 39 Height to highest point 17 feet
10. Number of stories in height one Character of ground Sand
11. Material of foundation Concrete Size footings 12" Size wall 8" Depth below ground 6"
12. Material of chimneys brick Number of inlets to flues 2 Interior size of flues 8x12
13. Give sizes of following materials: REDWOOD MUDSILLS 2x6 Girders 3x4 EXTERIOR studs 2x3 INTERIOR BEARING studs 2x3 Interior Non-Bearing studs 2x3 Ceiling joists 2x4 Roof rafters 2x4 FIRST FLOOR JOISTS 2x6 Second floor joists x Third floor joists x Specify material of roof Composition
14. State number of Plumbing fixtures to be installed 5 Number of gas outlets 4
15. State if there is a sewer or cesspool to be constructed on this lot sewer
(No cesspools allowed where there is a street sewer.)
16. Plumbing and gas fitting contractor's name Globe Building Co.

I have carefully examined and read the above application and know the same is true and correct, and that all provisions of the Building Ordinances will be complied with, whether herein specified or not.

(Sign here) Globe Building Co. By H. M. Field
(Owner or Authorized Agent)

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and specifications checked and found to conform to Ordinances, State Laws, etc. (Use Ink)	Application checked and found O. K. (Use Rubber Stamp)	Stamp here when permit is issued
7618	Plan Examiner.	MAY 24 1915 P.L. Clerk.	ISSUED MAY 24 1915

A. L. Coombs

REMARKS

All Applications must be filled out by Applicant

Bldg. Form 3

PLANS AND SPECIFICATIONS and other data must also be filed

3

BOARD OF PUBLIC WORKS

DEPARTMENT OF BUILDINGS

Application to Alter, Repair or Demolish

To the Board of Public Works of the City of Los Angeles:

Application is hereby made to the Board of Public Works of the City of Los Angeles, through the office of the Chief Inspector of Buildings, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

(38)

TAKE TO REAR OF NORTH ANNEX 1st FLOOR

CITY CLERK PLEASE VERIFY

Lot No. ..... Block .....
(Description of Property)

18 acs of land on W side of Compton Ave beg at the N.W. cor of Compton Ave & 38 St thence W on N line of 38 St 433-98 ft thence N ely to S line of Floyd St etc

District No. 1 M. B. Page 17 F. B. Page 19

O. K. City Clerk By ..... Deputy

TAKE TO ROOM No. 405 SOUTH ANNEX

ENGINEER PLEASE VERIFY

No. 1319 E 38th St. Street
(Location of Job)

Hooper & Compton

(USE INK OR INDELIBLE PENCIL)

O. K. City Engineer By ..... Deputy

(USE INK OR INDELIBLE PENCIL)

1. What purpose is the present Building now used for? School Purposes
2. What purpose will Building be used for hereafter? " "
3. Owner's name L.A. High School District Phone .....
4. Owner's address Board of Education - Security Bldg
5. Architect's name Norman F Marsh Phone 619-2
6. Contractor's name Same as owner Phone .....
7. Contractor's address " " "
8. VALUATION OF PROPOSED WORK {Including Plumbing, Gas Fitting, Sewers, Cesspools, Elevators, Painting, Finishing, all Labor, etc.} $ 125,000
9. Class of present Building "C" Brick No. of rooms at present 3 story
10. Number of stories in height 3 story Size of present Building See plot plan sht #1
11. State how many buildings are on this lot of Blueprints
12. State purpose buildings on lot are used for School purposes
(Tenement House, Hotel, Residence, or any other purpose.)

STATE ON FOLLOWING LINES EXACTLY WHAT ALTERATIONS, ADDITIONS, ETC., WILL BE MADE TO THIS BUILDING:

Addition of Assembly hall to present Administration Bldg
New square tank & gas, cold water, west end west ends of present Administration Bldg

I have carefully examined and read the above application and know the same is true and correct, and that all provisions of the Ordinances and Laws governing Building Construction will be complied with, whether herein specified or not.

OVER

(Sign here) Norman F Marsh per A. S. Hayes Engr.
(Owner or Authorized Agent)

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked and found to conform to Ordinances, State Laws, etc.	Application checked and found O. K.	Stamp here when permit is issued
6571	Plan Examiner	Clerk	RECEIVED FEB 14 1929 TOUCH

Entered

107

13. Size of new addition 80 x 160. No. of Stories in height 2 stories

14. Material of foundation conc. Size footings as shown Size wall as shown Depth below ground 4'-0"

15 Size of Redwood Mudsills —— x —— : Size of interior bearing studs —— x ——

16 Size of exterior studs —— x ——. Size of interior non-bearing studs as shown

17. Size of first floor joists 2 x 10 Second floor joists none x

18. Will all provisions of State Dwelling House Act be complied with? yes

I have carefully examined and read the above blank and know the same is true and correct, and that all provisions of the Ordinances and Laws governing Building Construction will be complied with, whether herein specified or not.

Norman F. Wright
per A. S. Mayer
Engr.

(Sign here)

(Owner or Authorized Agent)

FOR DEPARTMENT USE ONLY

APPLICATION	O. K.
CONSTRUCTION	O. K.
ZONING	O. K.
SET-BACK LINE	O. K.
ORD. 33761 (N. S.)	O. K.
FIRE DISTRICT	O. K.

Valuation raised because of alter. addition & reinforced conc. foundation, from $135,000 to $145,000

Norman F. Wright Inc.
per. A. S. Mayer.

L-5

All Applications must be filled out by Applicant

Bldg. Form 1

PLANS AND SPECIFICATIONS and other data must also be filed

BOARD OF PUBLIC WORKS

DEPARTMENT OF BUILDINGS

Application for the Erection of Buildings

CLASS ~~A~~—~~B~~—~~C~~ D Brick

To the Board of Public Works of the City of Los Angeles:

Application is hereby made to the Board of Public Works of the City of Los Angeles, through the office of the Chief Inspector of Buildings, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

TAKE TO REAR OF NORTH ANNEX 1st FLOOR CITY CLERK PLEASE VERIFY

TAKE TO ROOM No. 405 SOUTH ANNEX ENGINEER PLEASE VERIFY

Lot No. ..... Block .....
(Description of Property)

Beth. 7th Hope Bounded on the 30 ft. Hill St. on the North Adams Blvd. on the South the West 200 ft. thereof

District No. 123 M. B. Page 12 F. B. Page 197

No. 1319 E. 37th Street
(Location of Job)
3rd Council District

O. K. City Clerk By ..... Deputy

O. K. City Engineer By ..... Deputy

(USE INK OR INDELIBLE PENCIL)

1. Purpose of Building School Gymnasium No. of Rooms ..... No. of Families .....
2. Owner's name L. A. City High School Dist Phone .....
3. Owner's address Security Bldg.
4. Architect's name Norman F. Marsh Phone 87282
5. Contractor's name ..... Phone .....
6. Contractor's address .....
7. TOTAL VALUATION OF BUILDING {Including Plumbing, Gas Fitting, Sewers, Cesspools, Elevators, Painting, Finishing, all Labor, etc.} $ 60,000.00
8. Any other buildings on lot at present? yes How used? School
9. Size of proposed building 73' x 92' Size of lot ..... x ..... feet
10. Number of stories in height Three Height to highest point .....
11. Material of foundation Conc. Character of soil Sandy
12. Size of footings As shown Depth below surface of ground 3'-0"
13. Number of chimneys None Material of chimneys .....
14. Number of inlets to each flue " Interior size of such flues ..... x ..... x .....
15. Material of exterior walls Masonry
16. Material of interior construction " and Frame
17. Material of floors Wood
18. Material of roof Composition
19. Are there any other buildings within 30 feet of the proposed structure? yes

I have carefully examined and read the above application and know the same is true and correct, and hereby certify and agree that if a permit is issued that all of the provisions of the Building Ordinances will be complied with, whether herein specified or not; also certify that the plans and specifications herewith filed conform to all of the provisions of the Building Ordinances and State Laws.

OVER

(Sign here) Norman F. Marsh per A. E. Mayer
(Owner or Authorized Agent.)

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked and found to conform to Ordinances, State Laws, etc.	Application checked and found O. K.	Stamp here when permit is issued.
3897	1-22-24 Clyde M. Drislan Plan Examiner	1/23/24 Clerk	

Plans PLANS E. B. Clement 24 70.00

REMARKS

I hereby agree to locate and erect this building or structure and every portion thereof, except unenclosed porches, back a distance from the front property line equal to the set-back line of the nearest building now erected on any lot in this block in Zone "A" or "B" on the same side of the street.

Owner.

All Applications Must be Filled Out by Applicant

Bldg. Form 3

PLANS AND SPECIFICATIONS and other data must also be filed

BUILDING DIVISION

3

DEPARTMENT OF BUILDING AND SAFETY

Application to Alter, Repair or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

	REMOVED FROM	REMOVED TO
TAKE TO ROOM No. 248 (2ND FLOOR) CITY CLERK PLEASE VERIFY	Lot ____ Block ____	Lot ____ Block ____
	Tract ____	Tract ____
	JEFFERSON HIGH	School -
TAKE TO ROOM No. 5 (MAIN ST. FLOOR) ENGINEER PLEASE VERIFY	Book ____ Page ____ F. B. Page ____	Book ____ Page ____ F. B. Page ____
	~~From No.~~ 1319 E. 38th Street	
	~~To No.~~ Bet. Compton Ave. & Hooper Ave. Street	

O. K. City Clerk ____ By ____ Deputy

O. K. City Engineer ____ By ____ Deputy

(USE INK OR INDELIBLE PENCIL)

1. What purpose is the present Building now used for? Public School.
2. What purpose will Building be used for hereafter? " "
3. Owner's name L. A. City School District Phone ____
4. Owner's address 7th Floor c/o Building
5. Architect's name Board of Education Phone WE 1121.
6. Contractor's name Owners Phone Sta. 160
7. Contractor's address ____
8. VALUATION OF PROPOSED WORK {Including all Material, Labor, Finishing, Equipment and Appliances in Completed Building.} $ 2080.00
9. Class of present Building B. No. of rooms at present 20
10. Number of stories in height 2 Size present Building 65' x 160'
11. State how many buildings are on this lot 6
12. State purpose buildings on lot are used for Public Schools. (Apartment House, Hotel, Residence, or any other purpose.)
13. What Zone is Property in? C

STATE ON FOLLOWING LINES EXACTLY WHAT ALTERATIONS, ADDITIONS, ETC., WILL BE MADE TO THIS BUILDING:

Replace old wood floor and sleepers over concrete floor damaged by termites. No structural changes to building.

I have carefully examined and read the above application and know the same is true and correct, and that all provisions of the Ordinances and Laws governing Building Construction will be complied with, whether herein specified or not.

OVER

(Sign here) BOARD OF EDUCATION
(Owner or Authorized Agent.)

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked and found to conform to Ordinances, State Laws, etc.	Application checked and found O. K.	Stamp here when permit is issued.
18067	Plan Examiner	Clerk	RECEIVED JUL 11 1929

No Plans

OK 13 Bldg Insp.

14. Size of new addition NONE x No. of Stories in height

15. Material of foundation Size footings size wall Depth below ground

16. Size of Redwood Mudsills x Size of interior bearing studs x

17. Size of exterior studs x Size of interior non-bearing studs x

18. Size of first floor joists x Second floor joists x

19. Will all Lathing and Plastering Comply with Ordinance? NONE

20. Will all provisions of State Housing Act be complied with? Yes

I have carefully examined and read the above blank and know the same is true and correct, and that all provisions of the Ordinance and Laws governing Building Construction will be complied with, whether herein specified or not.

(Sign here) BOARD OF EDUCATION
(Owner or Authorized Agent)

FOR DEPARTMENT USE ONLY

APPLICATION	O. K.
CONSTRUCTION	O. K.
ZONING	O. K.
SET-BACK LINE	O. K.
ORD. 33761 (N. S.)	O. K.
FIRE DISTRICT	O. K.

REMARKS

All Applications Must be Filled Out by Applicant

Bldg. Form 2

PLANS AND SPECIFICATIONS and other data must also be filed

BUILDING DIVISION

2 DEPARTMENT OF BUILDING AND SAFETY

Application for the Erection of Frame Buildings

CLASS "D"

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

TAKE TO ROOM No. 248 (2ND FLOOR) CITY CLERK PLEASE VERIFY

Lot No. ..... Block .....
(Description of Property)

JEFFERSON HIGH SCHOOL.

District No. ..... M. B. Page ..... F. B. Page .....

O. K. City Clerk By ..... Deputy

TAKE TO ROOM No. 5 (MAIN ST. FLOOR) ENGINEER PLEASE VERIFY

No. 1319 E. 38th Street
(Location of Job)
Bet. Hooper Ave & Compton Ave.

O. K. City Engineer By ..... Deputy

(USE INK OR INDELIBLE PENCIL)

1. Purpose of Building GARDEN HOUSE AND PERGOLA. No. of Rooms — No. of Families —
2. Owner's name L. A. CITY SCHOOL DISTRICT. Phone .....
3. Owner's address 7th FLOOR - C/C BUILDING.
4. Architect's name BOARD OF EDUCATION - BUS. DEPT. Phone WE 1121.
5. Contractor's name OWNERS. Phone Sto. 160
6. Contractor's address .....
7. VALUATION OF PROPOSED WORK {Including all Material, Labor, Finishing Equipment and Appliances in Completed Building.} $ 850.00
8. Is there any existing building or permit for a building on lot? YES. How Used? SCHOOLS
9. Size of proposed building 14'-0" x 68'-0" Height to highest point 19'-0" feet
10. Number of Stories in height 1 Character of ground SANDY LOAM.
11. Material of foundation CONC. Size of footings 24" Size of wall — Depth below ground 12"
12. Material of chimneys NONE Number of Inlets to flue — Interior size of flues — x —
13. Material of exterior walls WOOD POSTS.
14. Give sizes of following materials: REDWOOD MUDSILLS — x — Girders DIRT x FLOOR. EXTERIOR studs 6"x6" x RAFTS INTERIOR BEARING studs — x — Interior Non-Bearing Studs — x — Ceiling joists 6" x 8" Roof Rafters 6" x 8" FIRST FLOOR JOISTS DIRT FLOOR Second floor joists — x — Specify material of roof SHINGLES - (WOOD)
15. Will all provisions of State Housing Act be Complied with? NONE
17. Will all lathing and plastering Comply with Ordinance? Yes.
16. What Zone is Property in? .....

I have carefully examined and read the above application and know the same is true and correct, and that all provisions of the Ordinances and Laws governing Building Construction will be complied with, whether herein specified or not.

OVER

(Sign Here) BOARD OF EDUCATION
(Owner or Authorized Agent)

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked and found to conform to Ordinances, State Laws, etc.	Application checked and found O. K.	Stamp here when permit is issued.
15629	Plan Examiner	Clerk	ISSUED JUN 11 1929

PLANS

FOR DEPARTMENT USE ONLY

APPLICATION	O.K.
CONSTRUCTION	O.K.
ZONING	O.K.
SET-BACK LINE	O.K.
ORD. 33761 (N. S.)	O.K.
FIRE DISTRICT	O.K.

REMARKS

The building referred to in this application will be more than 100 feet from 38th street.

Owner or Authorized Agent

All Applications Must be Filled Out by Applicant

Bldg. Form 2

2

PLANS AND SPECIFICATIONS and other data must also be filed

BUILDING DIVISION

DEPARTMENT OF BUILDING AND SAFETY

Application for the Erection of Frame Buildings

CLASS "D"

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

TAKE TO ROOM No. 248 (2ND FLOOR) CITY CLERK PLEASE VERIFY

Lot No. ..... Block .....
(Description of Property)

JEFFERSON HIGH SCHOOL

District No. ..... M. B. Page ..... F. B. Page .....

O. K. City Clerk ..... By ..... Deputy

TAKE TO ROOM No. 5 (MAIN ST. FLOOR) ENGINEER PLEASE VERIFY

No. 1319 E. 38th ~~Street~~
(Location of Job)

Bet. Compton and Hooper Ave. —

O. K. City Engineer ..... By ..... Deputy

(USE INK OR INDELIBLE PENCIL)

1. Purpose of Building GLASS HOUSE No. of Rooms 1 No. of Families —
2. Owner's name L. A. CITY SCHOOL DISTRICT Phone .....
3. Owner's address 7th FLOOR - C/C BUILDING -
4. Architect's name BOARD OF EDUCATION Phone WE. 1121.
5. Contractor's name OWNERS. Phone STA. 160
6. Contractor's address .....
7. VALUATION OF PROPOSED WORK {Including all Material, Labor, Finishing Equipment and Appliances in Completed Building.} $ 1800.00
8. Is there any existing building or permit for a building on lot? YES. How Used? SCHOOLS
9. Size of proposed building 20'-2" x 24'-2" Height to highest point 11'-0" feet
10. Number of Stories in height 1 Character of ground SANDY LOAM
11. Material of foundation CONC. Size of footings 12" Size of wall 7" Depth below ground 12"
12. Material of chimneys NONE. Number of Inlets to flue — Interior size of flues — x —
13. Material of exterior walls WOOD - GLASS
14. Give sizes of following materials: REDWOOD MUDSILLS 2" x 6" Girders DIRT x FLOOR. EXTERIOR studs 2" x 4" INTERIOR BEARING studs 4" x 4" x posts Interior Non-Bearing Studs — x — Ceiling joists 2" x 4" Roof Rafters 2" x 4" FIRST FLOOR JOISTS DIRT x FLOOR. Second floor joists — x — Specify material of roof GLASS.
15. Will all provisions of State Housing Act be Complied with? YES.
17. Will all lathing and plastering Comply with Ordinance? NONE.
16. What Zone is Property in? .....

I have carefully examined and read the above application and know the same is true and correct, and that all provisions of the Ordinances and Laws governing Building Construction will be complied with, whether herein specified or not.

OVER

(Sign Here) BOARD OF EDUCATION
(Owner or Authorized Agent)

STREET WIDENING FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked and found to conform to Ordinances, State Laws, etc.	Application checked and found O. K.	Stamp here when permit is issued.
1796	Plan Examiner	1-28-30 Clerk	ISSUED JAN 28 1930

1-28 Thos

PLANS

FOR DEPARTMENT USE ONLY

APPLICATION	O. K.
CONSTRUCTION	O. K.
ZONING	O. K.
SET-BACK LINE	O. K.
ORD. 33761 (N. S.)	O. K.
FIRE DISTRICT	O. K.

REMARKS

The building referred to in this application will be more than 100 feet from 38th. Street

Board of Education
Owner or Authorized Agent

Murbach

Bldg. Form 3

3

USE INK OR INDELIBLE PENCIL

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot x	Lot x
JEFFERSON HIGH SCHOOL	
Tract	Tract

Present location of building } 1319 E. 38th Street. (House Number and Street)

New location of building } (House Number and Street)

Between what cross streets } Compton Ave. & Hooper Ave.

Approved by City Engineer. _____ Deputy.

1. Purpose of PRESENT building BOILER HOUSE (Store, Residence, Apartment House, or any other purpose.) Families — Rooms 1
2. Use of building AFTER alteration or moving SAME Families — Rooms 1
3. Owner (Print Name) LOS ANGELES CITY SCHOOL DISTRICT Phone
4. Owner's address 7th FLOOR - C/L BUILDING -
5. Certificated Architect A. S. HIBECKER JR. State License No. B-976 Phone PR. 1121
6. Licensed Engineer State License No. Phone Sto. 162
7. Contractor OWNERS. State License No. Phone
8. Contractor's address
9. VALUATION OF PROPOSED WORK {Including all Material, Labor, Finishing, Equipment and Appliances in Completed Building.} $ 850.00
10. State how many buildings NOW on lot and give use of each. } 10 Schools. (Residence, Hotel, Apartment House, or any other purpose.)
11. Size of existing building 43' x 50' Number of stories high 1 Height to highest point 24'-8"
12. Class of building "C" Material of existing walls Brick Exterior framework Brick (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Rebuild main chimney up to top of firewall. Install steel stack on top of concrete chimney.
Earthquake Damage

Fill in Application on other Side and Sign Statement (OVER)

PERMIT NO.	FOR DEPARTMENT USE ONLY			Fee
14007	Plans and Specifications checked	Zone T3	Fire District No. 20	Stamp here when Permit is issued
	Corrections verified	Set Back Ft.	Street Widening Ft.	SEP 27 1933
PLANS	Plans, Specifications and Applications rechecked and approved	Application checked and approved Clerk.		
Rec'd	For Plans See / Filed with	SPRINKLER Required Valuation Included / Specified Yes—No		Inspector

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition NONE.....Size of Lot.....x.....Number of Stories when complete.....

Material of Foundation.....Width of Footing.....Depth of footing below ground.....

Width Foundation Wall.....Size of Redwood Sill.....x.....Material Exterior Walls.....

Size of Exterior Studs.....x.....Size of Interior Bearing Studs.....x.....

Joists: First Floor.....x.....Second Floor.....x.....Rafters.....x.....Roofing Material.....

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here BOARD OF EDUCATION
(Owner or Authorized Agent)

By .....

FOR DEPARTMENT USE ONLY

Application.....	Fire District.....	Set back.....	Termite Inspection .....
Construction.....	Zoning	Street Widening.....	Forced Draft Ventil.....

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

.....Street

Sign Here.....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here .....
Owner or Authorized Agent.

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here .....
(Owner or Authorized Agent)

REMARKS: .....

Bldg. Form 3

3

USE INK OR INDELIBLE PENCIL

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot GLEN ALTA SCHOOL	Lot JEFFERSON HIGH SCHOOL
Tract	Tract (BUNGALOW AA-151)

Present location of building } 451 N. Lincoln Park Ave. (House Number and Street)

New location of building } 1319 E. 38th Street. (House Number and Street)

Between what cross streets } Compton Ave and Hooper Ave.

Approved by City Engineer.

Deputy.

1. Purpose of PRESENT building Temporary School Bungalow (Store, Residence, Apartment House, or any other purpose.) Families — Rooms —
2. Use of building AFTER alteration or moving Same. Families — Rooms —
3. Owner (Print Name) Los Angeles City School District Phone
4. Owner's address 7th Floor City Building
5. Certificated Architect A. I. Nibecker Jr. State License No. Phone PR. 1121.
6. Licensed Engineer State License No. Phone Sta. 162
7. Contractor Owners. State License No. Phone
8. Contractor's address
9. VALUATION OF PROPOSED WORK {Including all Material, Labor, Finishing, Equipment and Appliances in Completed Building.} $ 600.00
10. State how many buildings NOW on lot and give use of each. } 10. Schools. (Residence, Hotel, Apartment House, or any other purpose.)
11. Size of existing building 28' x 94' Number of stories high 1 Height to highest point 17'
12. Class of building D Material of existing walls Wood Exterior framework Wood (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Move bungalow onto lot, and set up on 2"x4" underpinning, 4"x6" mudsills. To be set at least 20' from all buildings on lot, and 20' from property lines.

Fill in Application on other Side and Sign Statement (OVER)

PERMIT NO.	FOR DEPARTMENT USE ONLY			Fee
16969	Plans and Specifications checked	Zone B	Fire District No.	Stamp here when Permit is issued
	Corrections verified	Set Back No Ft.	Street Widening Ft.	DEC 10 1934
	Plans, Specifications and Applications rechecked and approved	Application checked and approved Clerk.		
PLANS No.	For Plans See	Filed with	SPRINKLER Required Specified Valuation Included Yes No	Inspector

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition: None Size of Lot: Entire Block Number of Stories when complete: 1

Material of Foundation: R.W. Width of Footing: — Depth of footing below ground: —

Width Foundation Wall: — Size of Redwood Sill: 4" x 6" Material Exterior Walls: Wood.

Size of Exterior Studs: 2" x 4" Size of Interior Bearing Studs: — x —

Joists: First Floor: 2" x 16" Second Floor: — x — Rafters: — x — Roofing Material: Comp.

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here: BOARD OF EDUCATION
(Owner or Authorized Agent)

By: [signature]

FOR DEPARTMENT USE ONLY

Application: [signature]	Fire District: [signature]	Set back:	Termite Inspection: Building moved OK to set down. Termite inspected & approved
Construction:	Zoning:	Street Widening:	Forced Draft Ventil:

(1) REINFORCED CONCRETE

Barrels of Cement:

Tons of Reinforcing Steel:

(2) The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

Street

Sign Here:
(Owner or Authorized Agent)

(3) No required windows will be obstructed.

Sign Here:
Owner or Authorized Agent.

(4) There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here:
(Owner or Authorized Agent)

REMARKS:

ALL WOOD AND LUMBER BELOW THE FIRST FLOOR BOARDS WILL BE TREATED AGAINST TERMITE INFESTATION AS REQUIRED BY SEC. 106 OF BUILDING ORDINANCE.

[signature]
OWNER OR AUTHORIZED AGENT

Bldg. Form 2

2

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

BUILDING DIVISION

Application for the Erection of a Building

OF

CLASS "D"

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

Lot No. .....

THOS. JEFFERSON HIGH SCHOOL.

Tract PART OF SEC. 9 - T2S - R. 13 W. S.B.M.

Location of Building 1319 E. 38TH STREET. (House Number, and Street)

Between what cross streets COMPTON AVE. AND HOOPER AVE.

Approved by City Engineer

Deputy

USE INK OR INDELIBLE PENCIL

1. Purpose of building Temporary school Classroom Tent (Store, Residence, Apartment House, Hotel or any other purpose) Families - Rooms 1
2. Owner (Print Name) Los Angeles City School District Phone .....
3. Owner's address 7th floor, Chamber of Commerce Building
4. Certificated Architect A. S. Nibecker, Jr. State License No. B-976 Phone PR 1121
5. Licensed Engineer ..... State License No. ..... Phone Sta. 162
6. Contractor Owner's State License No. ..... Phone .....
7. Contractor's address .....
8. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.) $250.00
9. State how many buildings NOW on lot and give use of each. Public Schools (Store, Residence, Apartment House, Hotel, or any other purpose)
10. Size of new building 16' x 24' No. Stories 1 Height to highest point 12½' Size lot ..... x .....
11. Type of soil Sandy loam Foundation (Material) R.W. Depth in ground --
12. Width of footing -- Width of foundation Wall -- Size of Redwood Sill 4" x 4"
13. Material Exterior Wall Wood & Canvas Size of studs: (Exterior) 2" x 4" (Interior Bearing) ..... x .....
14. Joists: First Floor 2" x 4" Second floor ..... x ..... Rafters 2" x 4" Material of Roof Canvas
15. Chimney (Material) none Size Flue - x ..... No. Inlets each flue - Depth footing in ground .....

I have carefully examined and read the above completed Application and know the same is true and correct, and hereby certify and agree that if a permit is issued all the provisions of the Building Ordinances and State Laws will be complied with, whether herein specified or not; I also certify that plans and specifications filed will conform to all the Building Ordinances and State Laws.

Sign here BOARD OF EDUCATION (Owner or Authorized Agent)

By [signature]

Plans, Specifications and other data must be filed if required.

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked	Zone	Fire District No.	Fee 2
2133	Corrections verified	Bldg. Line Ft.	Street Widening Ft.	Stamp here when Permit is issued FEB 7 1934
PLANS	Plans, Specifications and Application rechecked and approved	Application checked and approved Clerk		
Rec'd	For Plans See	Filed with	SPRINKLER Required Valuation included Year	Inspector

FOR DEPARTMENT USE ONLY

Application.....	Fire District.....	Bldg. Line.....	Forced Draft Ventil.....
Construction.....	Zoning.....	Street widening.....	

(1)

REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2) The building referred to in this Application will be more than 100 feet from

.....Street

Sign here.....
(Owner or Authorized Agent)

(3) This building will be not less than 10 feet from any other building used for residential purposes on this lot.

Sign here.....
(Owner or Authorized Agent)

(4) There will be an unobstructed passageway at least 10 feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign here.....
(Owner or Authorized Agent)

REMARKS:.....

Bldg. Form 2

2

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

BUILDING DIVISION

REVOCABLE PERMIT

Application for the Erection of a Building

OF

CLASS "D"

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

Lot No. .....

Jefferson High School

Tract .....

Location of Building 1319 E. 38th St. (House Number, and Street)

Between what cross streets Hooper Ave. & Compton Ave.

Approved by City Engineer

Deputy

USE INK OR INDELIBLE PENCIL

1. Purpose of building Temporary School Classroom Tent (Store, Residence, Apartment House, Hotel or any other purpose) Families ..... Rooms 11
2. Owner (Print Name) Los Angeles City School District Phone .....
3. Owner's address 7th Floor, Chamber of Commerce Building
4. Certificated Architect A. S. Nibecker, Jr. State License No. B-976 Phone RR 1121
5. Licensed Engineer ..... State License No. ..... Phone Sta. 162
6. Contractor ..... State License No. ..... Phone .....
7. Contractor's address Owners
8. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $ 250.00
9. State how many buildings NOW on lot and give use of each. Public Schools (Store, Residence, Apartment House, Hotel, or any other purpose)
10. Size of new building 16' x 24' No. Stories 1 Height to highest point 12' Size lot ..... x .....
11. Type of soil Sandy Loam Foundation (Material) R.W. Depth in ground .....
12. Width of footing ..... Width of foundation Wall ..... Size of Redwood Sill 4" x 4"
13. Material Exterior Wall Wood & Canvas Size of studs: (Exterior) 2" x 4" (Interior Bearing) ..... x .....
14. Joists: First Floor 2" x 4" Second floor ..... x ..... Rafters 2" x 4" Material of Roof Canvas
15. Chimney (Material) None Size Flue ..... x ..... No. Inlets each flue ..... Depth footing in ground .....

I have carefully examined and read the above completed Application and know the same is true and correct, and hereby certify and agree that if a permit is issued all the provisions of the Building Ordinances and State Laws will be complied with, whether herein specified or not; I also certify that plans and specifications filed will conform to all the Building Ordinances and State Laws.

Sign here ..... (Owner or Authorized Agent)

By .....

Plans, Specifications and other data must be filed if required.

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked	Zone	Fire District	Fee .....
7408	Corrections verified	Bldg. Line Ft.	Street Widening Ft.	Stamp here when Permit is issued
PLANS	Plans, Specifications and Application rechecked and approved.	Application checked and approved JUN 6 1934 Chief.		JUN 7 1934
Rec'd	For Plans Sec / Filed with	SPRINKLER Required Specified Valuation Included Yes No		Inspector 3 for Kenney

FOR DEPARTMENT USE ONLY

Application.....	Fire District.....	Bldg. Line.....	Forced Draft Ventil.....
Construction.....	Zoning.....	Street widening.....	

(1)

REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)

The building referred to in this Application will be more than 100 feet from

.....Street

Sign here.....
(Owner or Authorized Agent)

(3) This building will be not less than 10 feet from any other building used for residential purposes on this lot.

Sign here.....
(Owner or Authorized Agent)

(4)

There will be an unobstructed passageway at least 10 feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign here.....
(Owner or Authorized Agent)

REMARKS:.....

Bldg. Form 2

2

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

BUILDING DIVISION

Application for the Erection of a Building

OF

CLASS "D"

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

Lot No. .....

Jefferson High School

Tract .....

Location of Building 1319 E. 38th Street. (House Number, and Street)

Between what cross streets Compton Ave and Hooper Ave.

Approved by City Engineer

..... Deputy.

USE INK OR INDELIBLE PENCIL

1. Purpose of building School Bungalow (Temporary) (Store, Residence, Apartment House, Hotel or any other purpose) Families — Rooms 1
2. Owner (Print Name) Los Angeles City School District Phone .....
3. Owner's address 7th Floor - C/c Building
4. Certificated Architect A. S. Hibacker Jr. State License No. 5-976 Phone PR. 1121.
5. Licensed Engineer ..... State License No. ..... Phone No. 166.
6. Contractor Owner (School Students) State License No. ..... Phone .....
7. Contractor's address .....
8. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $ 1000.00
9. State how many buildings NOW on lot and give use of each. 10 - Schools. (Store, Residence, Apartment House, Hotel, or any other purpose)
10. Size of new building 24' x 32' No. Stories 1 Height to highest point 17' Size lot Entire x Block.
11. Type of soil Sandy Loam Foundation (Material) R.W. Depth in ground —
12. Width of footing — Width of foundation Wall — Size of Redwood Sill 3" x 6"
13. Material Exterior Wall Wood Size of studs: (Exterior) 2" x 4" (Interior Bearing) — x —
14. Joists: First Floor 2" x 8" Second floor — x — Rafters x Material of Roof Composition
15. Chimney (Material) None Size Flue — x No. Inlets each flue — Depth footing in ground —

I have carefully examined and read the above completed Application and know the same is true and correct, and hereby certify and agree that if a permit is issued all the provisions of the Building Ordinances and State Laws will be complied with, whether herein specified or not; I also certify that plans and specifications filed will conform to all the Building Ordinances and State Laws.

Sign here L.A. City School District (Owner or Authorized Agent)

Plans Specifications and other data must be filed if required.

By .....

PERMIT NO.	FOR DEPARTMENT USE ONLY			Fee
4751	Plans and Specifications checked	Zone	Fire District No.	Stamp here when Permit is issued
	Corrections verified	Bldg. Line Ft.	Street Widening Ft.	MAR 22 1935
PLANS	Plans, Specifications and Application checked and approved	Application checked and approved		
Rec.	For Plans See	Filed with	SPRINKLER Required Valuation Included Yes — No Specified	Inspector

FOR DEPARTMENT USE ONLY

Application.....	Fire District.....	Bldg. Line.....	Forced Draft Ventil.....
Construction.....	Zoning.....	Street widening.....	

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building referred to in this Application will be more than 100 feet from

.....Street

Sign here.....
(Owner or Authorized Agent)

(3) This building will be not less than 10 feet from any other building used for residential purposes on this lot.

Sign here.....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least 10 feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign here.....
(Owner or Authorized Agent)

REMARKS:.....

Bldg. Form 3

USE INK OR INDELIBLE PENCIL

3

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot: x	Lot: x
Jefferson High School	
Tract:	Tract: (Administration & Auditorium)

Present location of building: 1319 E. 38th. Street (House Number and Street)

New location of building: (House Number and Street)

Between what cross streets: Compton Ave and Hooper Ave.

Approved by City Engineer. _____ Deputy.

1. Purpose of PRESENT building: Public School. (Store, Residence, Apartment House, or any other purpose.) Families: — Rooms: 40
2. Use of building AFTER alteration or moving: — Families: 0 Rooms: 0
3. Owner (Print Name): Los Angeles City High School District Phone: PR. 1121
4. Owner's address: 7th Floor c/o Building Sta. 166
5. Certificated Architect: None State License No. _____ Phone _____
6. Licensed Engineer: State License No. _____ Phone _____
7. Contractor: Owners (S.E.R.A. labor) State License No. _____ Phone _____
8. Contractor's address _____
9. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.) $ 3000.00
10. State how many buildings NOW on lot and give use of each: 15 Schools. (Residence, Hotel, Apartment House, or any other purpose.)
11. Size of existing building: 70' x 185' Number of stories high: 3 Height to highest point: 50'
12. Class of building: "C" Material of existing walls: Brick Exterior framework: Brick (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Demolish building to ground and remove.

Fill in Application on other Side and Sign Statement (OVER)

PERMIT NO.	FOR DEPARTMENT USE ONLY			Fee: 12.00
5052	Plans and Specifications checked	Zone	Fire District No.	Stamp here when Permit is issued
	Corrections verified	Bldg. Line Ft.	Street Widening Ft.	MAR 28 1935
PLANS	Plans, Specifications and Applications rechecked and approved	Application checked and approved	Clerk	
Rec'd	Per Plans See	Filed with	SPRINKLER Required Valuation Included / Specified Yes—No	Inspector

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition..NONE.....Size of Lot.....x.....Number of Stories when complete.....

Material of Foundation.....Width of Footing.....Depth of footing below ground.....

Width Foundation Wall.....Size of Redwood Sill.....x.....Material Exterior Walls.....

Size of Exterior Studs.....x.....Size of Interior Bearing Studs.....x.....

Joists: First Floor.....x.....Second Floor.....x.....Rafters.....x.....Roofing Material.....

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here.....Board of Education
(Owner or Authorized Agent)

By.....Rinball

FOR DEPARTMENT USE ONLY

Application.....	Fire District.....	Bldg. Line.....	Termite Inspection .....
Construction.....	Zoning	Street Widening.....	Forced Draft Ventil.....

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

.....Street

Sign Here.....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here .....
Owner or Authorized Agent.

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here .....
(Owner or Authorized Agent)

REMARKS: .....

Bldg. Form 1

1

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application for the Erection of a Building
OF
CLASS "A", "B" OR "C"

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

Lot No. .....

JEFFERSON HIGH SCHOOL

Tract .....

Location of building 1319 E. 38th Street (House Number, and Street)

Between what cross streets Compton and Hooper Aves.

Approved by City Engineer

..... Deputy.

USE INK OR INDELIBLE PENCIL

1. Purpose of building School Auditorium (Store, Residence, Apartment House, Hotel, or any other purpose) Families — Rooms 6
2. Owner (Print Name) Los Angeles City High School District Phone PR. 1121.
3. Owner's address 7th Floor, Ic Building Gr. 166
4. Certificated Architect Stiles O. Clements State License No. B-813 Phone .....
5. Licensed Engineer Edwin F. Rudolph State License No. 777 Phone .....
6. Contractor None State License No. ..... Phone .....
7. Contractor's address .....
8. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $ ~~93,000.00~~ $118,000.00 U.W.M.
9. State how many buildings NOW on lot and give use of each. 10 Schools (Store, Residence, Apartment House, Hotel or any other purpose)
10. Size of new building 81'-8" x 152'-3" No. Stories 2 Height to highest point 38'-0"
11. Size of lot Entire x Block Type of soil Sand - Loam
12. Foundation (Material) Concrete Depth in ground 4'-0" (Min)
13. Material Exterior Walls Concrete Skeleton framework Reinforced Concrete (Structural Steel, Reinforced Concrete)
14. Material of floors Concrete Roofing material Composition

I have carefully examined and read the above completed Application and know the same is true and correct and hereby certify and agree that if a permit is issued all the provisions of the Building Ordinances and State Laws will be complied with, whether herein specified or not; I also certify that plans and specifications filed will conform to all the Building Ordinances and State Laws.

Sign here BOARD OF EDUCATION (Owner or Authorized Agent)

Plans, Specifications and other data must be filed.

By .....

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked	Zone	Fire District	Fee.
35261	Corrections verified	Bldg. Line 1.05 Ft.	Street Widening Ft.	Stamp here when Permit is issued DEC 10 1936
PLANS Rec'd.	Plans, Specifications and Application rechecked and approved.	Application checked and approved Clerk		
	For Plans See / Filed with	SPRINKLER Required / Valuation Included	Specified Yes — No	Inspector

202

FOR DEPARTMENT USE ONLY

Application.....	Fire District.....	Bldg. Line.....	Forced Draft Ventil.....
Construction.....	Zoning.....	Street widening.....	

(1)
REINFORCED CONCRETE

Barrels of Cement....4350.....

Tons of Reinforcing Steel....48.....

(2)
The building referred to in this Application will be more than 100 feet from

.....Street

Sign here.....
(Owner or Authorized Agent)

(3) This building will be not less than 10 feet from any other building used for residential purposes on this lot.

Sign here.....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least 10 feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign here.....
(Owner or Authorized Agent)

REMARKS:

PLAN CHECKING

RECEIPT NO. 7826

VALUATION $ 173000

FEE PAID $ 1271.20

Bldg. Form 3

USE INK OR INDELIBLE PENCIL

3

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

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Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot.....	Lot.....
.....	.....
Tract.....	Tract.....

Present location of building } 1319 E. 38th St. (House Number and Street)

New location of building } ..... (House Number and Street)

Between what cross streets } .....

Approved by City Engineer.

.....
Deputy.

1. Purpose of PRESENT building School Families..... Rooms.....
(Store, Residence, Apartment House, Hotel, or any other purpose)
2. Use of building AFTER alteration or moving..... Families..... Rooms.....
3. Owner (Print Name) L. A. Bd of Education Phone.....
4. Owner's Address 1425 So. San Pedro St.
5. Certificated Architect None State License No..... Phone.....
6. Licensed Engineer None State License No. 24061 Phone.....
7. Contractor Tile Seal Mfg. Co State License No. T 408 Phone He. 7511
8. Contractor's Address 1013 No. Sycamore Ave
Tile Setting Ord. Fee $1.00 Contractors Reg. No.....
9. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $.....
10. State how many buildings NOW on lot and give use of each. } ..... (Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building.....x.....Number of stories high.....Height to highest point.....
12. Class of building D Material of existing walls..... Exterior framework..... (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Install tile toilet rooms.

Fill in Application on other Side and Sign Statement **(OVER)**

PERMIT NO.	FOR DEPARTMENT USE ONLY			Fee 100
4917	Plans and Specifications checked	Zone	Fire District / No.	Stamp here when Permit is issued
	Corrections verified	Bldg. Line Ft.	Street Widening Ft.	MAR -5 1936
PLANS Rec'd.....	Plans, Specifications and Applications rechecked and approved	Application checked and approved Bruce 3/5/36 Clerk		
	For Plans See / Filed with	SPRINKLER Required Valuation Included / Specified Yes—No		Inspector H D Quillman Chm. Bldg

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition.....x.....Size of Lot.....x.....Number of Stories when complete.....

Material of Foundation.....Width of Footing.....Depth of footing below ground.....

Width Foundation Wall.....Size of Redwood Sill.....x.....Material Exterior Walls.....

Size of Exterior Studs.....x.....Size of Interior Bearing Studs.....x.....

Joists: First Floor.....x.....Second Floor.....x.....Rafters.....x.....Roofing Material.....

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here Tile Seal Mfg. Co
(Owner or Authorized Agent)

By Arthur Doherty

FOR DEPARTMENT USE ONLY

Application	Fire District.....	Bldg. Line	Termite Inspection.....
Construction.....	Zoning	Street Widening	Forced Draft Ventil.....

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

.....Street

Sign Here.....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here.....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here.....
(Owner or Authorized Agent)

REMARKS: .....

Bldg. Form 3

3

USE INK OR INDELIBLE PENCIL

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

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Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot ✕	Lot ✓
JEFFERSON HIGH	SCHOOL
Tract	Tract

Present location of building } 1319 E. 41st Street. (House Number and Street)

New location of building } (House Number and Street)

Between what cross streets } Compton Ave and Hooper Ave.

Approved by City Engineer. _____ Deputy.

1. Purpose of PRESENT building Public School Shops Families — Rooms 10 (Store, Residence, Apartment House, Hotel, or any other purpose)
2. Use of building AFTER alteration or moving Same Families — Rooms 20
3. Owner (Print Name) Los Angeles City High School District Phone PR. 1121.
4. Owner's Address 7th Floor - Ex Building Sta. 166
5. Certificated Architect Stiles O. Clements State License No. 813 Phone
6. Licensed Engineer Edwin F. Rudolph State License No. 777 Phone
7. Contractor None State License No. Phone
8. Contractor's Address
9. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $ 50,000.00
10. State how many buildings NOW on lot and give use of each. } 10 Schools. (Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building 100' x 200' Number of stories high 2 Height to highest point 37'
12. Class of building "B" Material of existing walls Brick Exterior framework Brick (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Construct 8 room 1 story class "B" addition to present building.

Fill in Application on other Side and Sign Statement (OVER)

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked	Zone	Fire District	Fee 123.00
1330	W. F. Norman	B	No.	Stamp here when Permit is issued
	Corrections verified W. F. Norman	Bldg. Line Ft.	Street Widening Ft.	JAN 14 '38
	Plans, Specifications and Applications rechecked and approved W. F. Norman	Application checked and approved 1/14/38	Clerk	
PLANS 1/24/5	For Plans See	Filed with	SPRINKLER Required Valuation Included / Specified Yes No	Inspector W. B. Hecht

202

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition 59'-8" x 110' Size of Lot Future Stock Number of Stories when complete 1

Material of Foundation Concrete Width of Footing 2'-0" Depth of footing below ground 4' (Min)

Width Foundation Wall 12" Size of Redwood Sill — x — Material Exterior Walls Conc.

Size of Exterior Studs 10" Conc. Walls Size of Interior Bearing Studs 10" Conc. Walls

Joists: First Floor Slab Second Floor None Rafters 2" x 12" Roofing Material Composition

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here .....
(Owner or Authorized Agent)

By Tinkell

FOR DEPARTMENT USE ONLY

Application None	Fire District	Bldg. Line	Termite Inspection
Construction	Zoning	Street Widening	Forced Draft Ventil.

(1)
REINFORCED CONCRETE

Barrels of Cement 725

Tons of Reinforcing Steel 30

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

..... Street

Sign Here .....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here .....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here .....
(Owner or Authorized Agent)

REMARKS:

PLAN CHECKING

RECEIPT No. 17923

VALUATION $ 50000 00

FEE PAID $ 60 00

Bldg. Form 3

3

USE INK OR INDELIBLE PENCIL

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

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Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot.....	Lot.....
.....	.....
Tract.....	Tract.....

Present location of building } 1319 East 38th St (House Number and Street)

New location of building } ..... (House Number and Street)

Between what cross streets } .....

Approved by City Engineer. .....

Deputy.

1. Purpose of PRESENT building School (Store, Residence, Apartment House, Hotel, or any other purpose) Families..... Rooms.....
2. Use of building AFTER alteration or moving..... Families..... Rooms.....
3. Owner (Print Name) City of Los Angeles Phone.....
4. Owner's Address.....
5. Certificated Architect ..... State License No..... Phone.....
6. Licensed Engineer ..... State License No..... Phone.....
7. Contractor Cleveland Wrecking Co State License No. 21064 Phone Cd 6175
8. Contractor's Address 175 East Jefferson
9. VALUATION OF PROPOSED WORK { Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon. } $ 2000.00 ~~1000~~
10. State how many buildings NOW on lot and give use of each. } ..... (Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building 60 x 150 Number of stories high 3 Height to highest point.....
12. Class of building Brick Material of existing walls Brick Exterior framework Brick (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Wreck & Remove

Fill in Application on other Side and Sign Statement (OVER)

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked	Zone	Fire District No.	Fee..... Stamp here when Permit is issued
1511	Corrections verified	Bldg. Line Ft.	Street Widening Ft.	JAN 15 1937
PLANS Rec'd.....	Plans, Specifications and Applications rechecked and approved	Application checked and approved 1/15/37 Clerk		
	For Plans See	Filed with	SPRINKLER Required Valuation Included / Specified Yes—No	Inspector

202 on file

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition.....x.....Size of Lot.....x.....Number of Stories when complete.....

Material of Foundation.....Width of Footing.....Depth of footing below ground.....

Width Foundation Wall.....Size of Redwood Sill.....x.....Material Exterior Walls.....

Size of Exterior Studs.....x.....Size of Interior Bearing Studs.....x.....

Joists: First Floor.....x.....Second Floor.....x.....Rafters.....x.....Roofing Material.....

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State Laws.

Sign Here Charles Greeley Co
(Owner or Authorized Agent)

By

FOR DEPARTMENT USE ONLY

Application	Fire District.....	Bldg. Line	Termite Inspection.....
Construction.....	Zoning	Street Widening	Forced Draft Ventil.....

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

.....Street

Sign Here.....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here.....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here.....
(Owner or Authorized Agent)

REMARKS: Approved by RMW 11-14-56 for 2000 do. Lodge fee as applicant was ready to take it off but had insufficient money to pay the difference in table of valuation. Promise to return a.m. of the 15th to complete transaction. Parcel

Bldg. Form 8

USE INK OR INDELIBLE PENCIL

3

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION
Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

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Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot	Lot
Emerson Junior High School	Jefferson High School
Tract	Tract

DISTRICT

Present location of building: 1650 Selby Ave. (Bungalow AA-217) (House Number and Street)

New location of building: 1319 East 41st Street. (House Number and Street)

Between what cross streets: Compton Ave and Hooper Ave.

Approved by City Engineer. Deputy.

1. Purpose of PRESENT building: Temporary School Bungalow (Store, Residence, Apartment House, Hotel or any other purpose) Families — Rooms 2
2. Use of building AFTER alteration or moving: Same Families — Rooms 2
3. Owner (Print Name): Los Angeles City School District Phone Pa. 1121
4. Owner's Address: 7th Floor - Ac Building Sta. 166
5. Certificated Architect: None State License No. Phone
6. Licensed Engineer: None State License No. Phone
7. Contractor: Owners State License No. Phone
8. Contractor's Address: GEM
9. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $ 100.00
10. State how many buildings NOW on lot and give use of each: 10 - School (Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building 24' x 76' Number of stories high 1 Height to highest point 17
12. Class of building D Material of existing walls Wood Exterior framework Wood (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Move bungalow onto school site: Set up on 2"x6" P.W. mudsills and 2"x4" underpinning.

To be located 20' from property lines and 20' from all other buildings on site.

Fill in Application on other Side and Sign Statement (OVER)

PERMIT NO.	FOR DEPARTMENT USE ONLY			Fee 150
36347	Plans and Specifications checked	Zone C	Fire District No. No	Stamp here when Permit is issued
	Corrections verified	Bldg. Line No Ft.	Street Widening No Ft.	
	Plans, Specifications and Applications rechecked and approved Morris	Application checked and approved 10-28-31 Clerk		
PLANS ✓ Rec'd	For Plans See / Filed with	SPRINKLER Required — Specified Valuation Included Yes—No		Inspector

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition None ...Size of Lot — x — ..Number of Stories when complete 1 .

Material of Foundation R.C. ..Width of Footing — ..Depth of footing below ground — ..

Width Foundation Wall — ...Size of Redwood Sill. 2" x 6" ..Material Exterior Walls Wood.

Size of Exterior Studs 2" x 4" ...Size of Interior Bearing Studs — x —

Joists: First Floor 2" x 8" Second Floor — x — ..Rafters — x — Roofing Material Comp.

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

BOARD OF EDUCATION

Sign Here.....
(Owner or Authorized Agent)

By.....

FOR DEPARTMENT USE ONLY

Application	Fire District	Bldg. Line	Termite Inspection
Construction	Zoning	Street Widening	Forced Draft Ventil.

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

.....Street

Sign Here.....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here.....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here.....
(Owner or Authorized Agent)

REMARKS: .....

Bldg. Form 1

USE INK OR INDELIBLE PENCIL

3

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

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Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot	Lot
Tract 41st St.	Tract

Present location of building: 1319 E 41st St, LA. ~~38th & Hooper~~ (House Number and Street)

New location of building: Demolished at above site. (House Number and Street)

Between what cross streets:

Approved by City Engineer. Deputy.

1. Purpose of PRESENT building: Abandoned (Store, Residence, Apartment House, Hotel, or any other purpose) Families — Rooms —
2. Use of building AFTER alteration or moving: — Families — Rooms —
3. Owner (Print Name): LA Board of Education Phone PR 1121
4. Owner's Address: 1425 So San Pedro St., LA.
5. Certificated Architect: State License No. Phone
6. Licensed Engineer: State License No. Phone
7. Contractor: Kiss Crane Service State License No. City # 750 36337 Phone KL 1300
8. Contractor's Address: 5400 E. Imperial, South Gate Cal
9. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon) $ [redacted]
10. State how many buildings NOW on lot and give use of each: Several School buildings (Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building 50 x 100 Number of stories high 2½ Height to highest point 30 ft
12. Class of building Brick Material of existing walls Brick Exterior framework Wood or Steel (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Demolish Old brick Mechanics building at Jefferson School Site - LA.

Ok to issue without Certificate of Registration & Inspection & Maintenance of L.S. Chapman

Fill in Application on other Side and Sign Statement 1/5/38 (OVER)

FOR DEPARTMENT USE ONLY				
PERMIT NO. 410	Plans and Specifications checked	Zone	Fire District No.	Fee 90¢ Stamp here when Permit is issued
	Corrections verified	Bldg. Line Ft.	Street Widening Ft.	JAN -5 '38
	Plans, Specifications and Applications rechecked and approved Marcus	Application checked and approved 1/5/38 Clerk		
PLANS Rec'd	For Plans See	Filed with	SPRINKLER Required — Specified — Valuation Included — Note No	Inspector

202

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition Non x.....Size of Lot.....x.....Number of Stories when complete.....

Material of Foundation.....Width of Footing.....Depth of footing below ground.....

Width Foundation Wall.....Size of Redwood Sill.....x.....Material Exterior Walls.....

Size of Exterior Studs.....x.....Size of Interior Bearing Studs.....x.....

Joists: First Floor.....x.....Second Floor.....x.....Rafters.....x.....Roofing Material.....

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here Kiss Crane Service
(Owner or Authorized Agent)

By Jack Wilcox

FOR DEPARTMENT USE ONLY

Application	Fire District	Bldg. Line	Termite Inspection.....
Construction.....	Zoning	Street Widening	Forced Draft Ventil.....

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

.....Street

Sign Here.....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here.....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here.....
(Owner or Authorized Agent)

REMARKS: .....

Bldg. Form 8

3

USE INK OR INDELIBLE PENCIL

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM

Lot: Emerson Jr. High School

Tract:

REMOVED TO

Lot: Jefferson High School

Tract:

Present location of building: 1620 Selby Ave. (AA-236) (House Number and Street)

New location of building: 1319 E. 41st St. (House Number and Street)

Between what cross streets: Compton Ave. & Hooper Ave.

Approved by City Engineer.

Deputy.

1. Purpose of PRESENT building: Temporary School Bungalow (Store, Residence, Apartment House, Hotel, or any other purpose) Families — Rooms 2
2. Use of building AFTER alteration or moving: Same Families — Rooms 2
3. Owner (Print Name): Los Angeles City School District Phone PR.1121.
4. Owner's Address: 7th Floor - City Building MA.166.
5. Certificated Architect: None State License No. Phone
6. Licensed Engineer: None State License No. Phone
7. Contractor: Owner State License No. Phone
8. Contractor's Address:
9. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $ 200.00
10. State how many buildings NOW on lot and give use of each: 10 Schools (Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building 24' x 76' Number of stories high 1 Height to highest point 17
12. Class of building D Material of existing walls Wood Exterior framework Wood (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Move bungalow onto school site. Set up on 2"x6" mudsills and 2"x4" underpinning.

To be located at least 20' from all other buildings on site, and 20' from property lines.

8-8-39

Fill in Application on other Side and Sign Statement (OVER)

FOR DEPARTMENT USE ONLY

PERMIT NO. 31894	Plans and Specifications checked	Zone B	Fire District No. No	Fee 5.00 Stamp here when Permit is issued
	Corrections verified	Bldg. Line No Ft.	Street Widening No Ft.	AUG 14 1939
PLANS Rec'd	Plans, Specifications and Applications rechecked and approved	Application checked and approved 8/8/39 Clerk		
	For Plans See / Filed with	SPRINKLER Required Valuation Included / Specified Yes—No		Inspector

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition MOVE ..... Size of Lot — x — ..... Number of Stories when complete 1 .....

Material of Foundation R. W. ..... Width of Footing — ..... Depth of footing below ground — .....

Width Foundation Wall — ..... Size of Redwood Sill 2" x 6" ..... Material Exterior Walls [illegible]

Size of Exterior Studs 2" x 4" ..... Size of Interior Bearing Studs 2" x 4" .....

Joists: First Floor 2" x 8" Second Floor — x — ..... Rafters — x — ..... Roofing Material Comp. .....

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State Laws.

BOARD OF EDUCATION

Sign Here .....
(Owner or Authorized Agent)

By .....

FOR DEPARTMENT USE ONLY

Application	Fire District	Bldg. Line	Termite Inspection .....
Construction	Zoning	Street Widening	Forced Draft Ventil. .....

(1)
REINFORCED CONCRETE

Barrels of Cement .....

Tons of Reinforcing Steel .....

(2)
The building (and/or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

..... Street

Sign Here .....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here .....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here .....
(Owner or Authorized Agent)

REMARKS: .....

3

APPLICATION TO ALTER, REPAIR OR DEMOLISH
AND FOR A
Certificate of Occupancy

Form B-1-[illegible]
CITY OF LOS ANGELES
DEPARTMENT
OF
BUILDING AND SAFETY
BUILDING DIVISION

Lot No. _____

Tract (Jefferson High) (Garbage House)

Location of Building 1319 E. 41st St. (Street Number and Street)

Approved by City Engineer _____

Between what cross streets Compton & Hooper Ave's.

Density _____

USE INK OR INDELIBLE PENCIL

1. Present use of building Public School Cafeteria (Store, Dwelling, Apartment House, Hotel or other purpose) Families — Rooms 12
2. State how long building has been used for present occupancy 12 years
3. Use of building AFTER alteration or moving Same Families — Rooms 13
4. Owner Los Angeles City High School District Phone PR.1184
5. Owner's Address 1425 S. So. Pedro St. P. O. Box 54 Phone RI.386
6. Certificated Architect — State License No. — Phone —
7. Licensed Engineer H. E. Bigelow State License No. 753 Phone PR.1184
8. Contractor Owner State License No. — Phone RI.386
9. Contractor's Address Same

10. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and service equipment, furnace or furnace) $ 600.00
11. State how many buildings NOW on lot and give use of each. 20 - School Buildings (Store, Dwelling, Apartment House, Hotel or other purpose)
12. Size of existing building 92' x 108' Number of stories high 1 Height to highest point 20'-6"
13. Material Exterior Walls Reinforced Concrete (Wood, Steel or Masonry) Exterior framework Masonry (Wood or Steel)
14. Describe briefly all proposed construction and work: Build Garbage House addition to existing Cafeteria Bldg. as shown on plans.

Garbage House Addition — NEW CONSTRUCTION

15. Size of Addition 6'-6" x 12'-6" Size of Lot [illegible] Number of Stories when complete 1
16. Footing: Width 12" Depth in Ground 12" min. Width of Wall 8" Size of Floor Joists [illegible]
17. Size of Studs 2" x 4" Material of Floor [illegible] Size of Rafters 2" x 4" Type of Roofing Composition.

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here Board of Education (Owner or Authorized Agent)

DISTRICT OFFICE _____ By J. E. Gale

FOR DEPARTMENT USE ONLY

DEC 31 PLAN CHECKING

Date _____
Receipt No. 16294
Valuation $ 600
Fee Paid $ 2.00

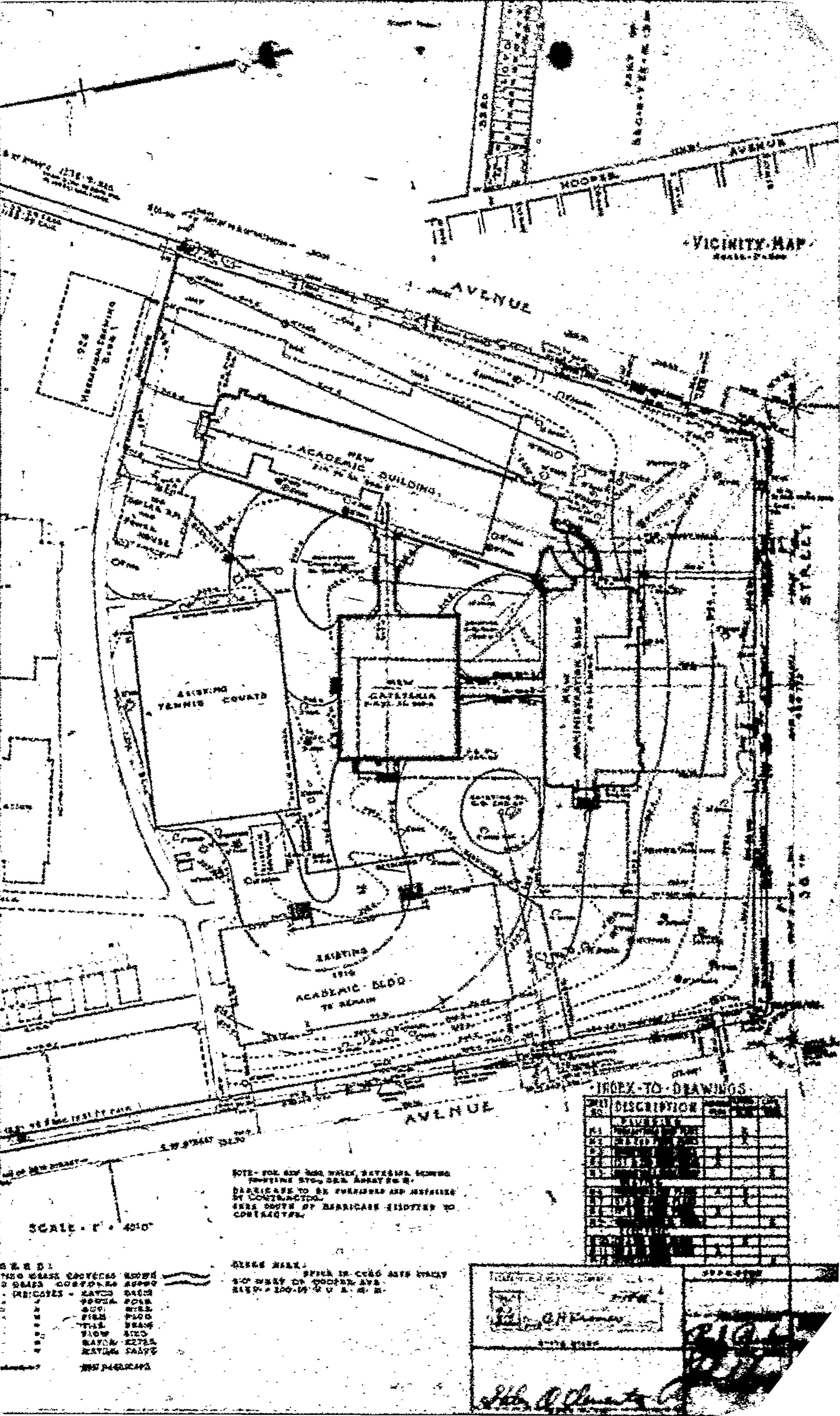
REINFORCED CONCRETE
Bldg. Cement _____
Type of Reinforcing Steel _____

FEES
Bldg. Per _____
Cert. of Occupancy X
Total 4.00

TYPE	GROUP	Building No.	Inside Lot / Corner Lot	Key Lot / Corner Lot Reversed	Lot Size	Front Yard Alley / Rear Alley	Check
V	5	—			Irregl	X	

PERMIT No.	Plans and specifications checked	Zone	Fire District	District Map No.
36733	Wyman 12-5-47	R-3	—	4018
	Corrections Verified: Wyman 12-5-47	Bldg. Line — Ft.	Fire Limits Building — Ft.	
	Plans, Specifications and Application including fees approved.	Application checked and approved.		Permit is Issued: DEC 31 1947
PLANS				

Set No.	For Plans Any	Plans with	Inspection	Inspector Investigated / Telephone Installed / Time — Min.	Inspector
	X	X	X		


VICINITY MAP
AVENUE
HOOPER
AVENUE
ACADEMIC BUILDING
EXISTING TENNIS COURTS
NEW CAFETERIA PAVILION
EXISTING 1916 ACADEMIC BLDG TO REMAIN
AVENUE
INDEX TO DRAWINGS
DESCRIPTION
SCALE - 1" = 40'-0"

1

APPLICATION TO ERECT A NEW BUILDING

CITY OF LOS ANGELES
DEPARTMENT
OF
BUILDING AND SAFETY
BUILDING DIVISION

Lot No.

Tract Jefferson High School

Tract Part of Sec. 9-T2S-R.13W. S.B.M.

Location of Building 1319 E. 41st STREET (Street Number and Street)

Between what cross streets Compton & Hooper Aves.

Approved by City Engineer

Engineer

USE INK OR INDELIBLE PENCIL

1. Purpose of building Public School (Temporary) (Store, Dwelling, Apartment House, Hotel or other purpose) Families Rooms 2

2. Owner Los Angeles City School District (Print Name) Phone

3. Owner's address 1425 South San Pedro Street P.O. Los Angeles 54

4. Certificated Architect A. S. Hibscher, Jr. Date License No. 3-976 Phone RE 1171

5. Licensed Engineer C. R. Hart Date License No. Phone Ex. 357

6. Contractor Owners Date License No. Phone

7. Contractor's address

8. VALUATION OF PROPOSED WORK (Including all labor and materials and all permanent fixtures, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevators. Temporary therein or thereon) $ 12,000.00

9. State how many buildings NOW on lot and give use of each. 1 - Public School (Store, Dwelling, Apartment House, Hotel, or other purpose)

10. Size of new building 24' x 76' No. Stories 1 Height to highest point 16' Size lot 160' x 231'

11. Material Exterior Walls Redwood Siding Type of Roofing Compo.

12. For Accessory Buildings and similar structures
(a) Footing: Width — Depth in Ground — Width of Wall —
(b) Size of Studs 2" x 4" Material of Floor Wood
(c) Size of Floor Joists 2" x 8" Size of Rafters 2" x 6"

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Plans, Specifications and other data must be filed.

Sign here BOARD OF EDUCATION (Owner or Authorized Agent)

By [signature]

FOR DEPARTMENT USE ONLY

(1) MAY 15 1951 FAX CHECKING
Receipt No. 5268
Valuation $ 12000
Fee Paid $ 2.50

(2) REINFORCED CONCRETE
Bldg. Consent
Tests of Reinforcing Steel

(3) The building referred to in this application will be more than 100 feet from Street
Sign here (Owner or Authorized Agent)

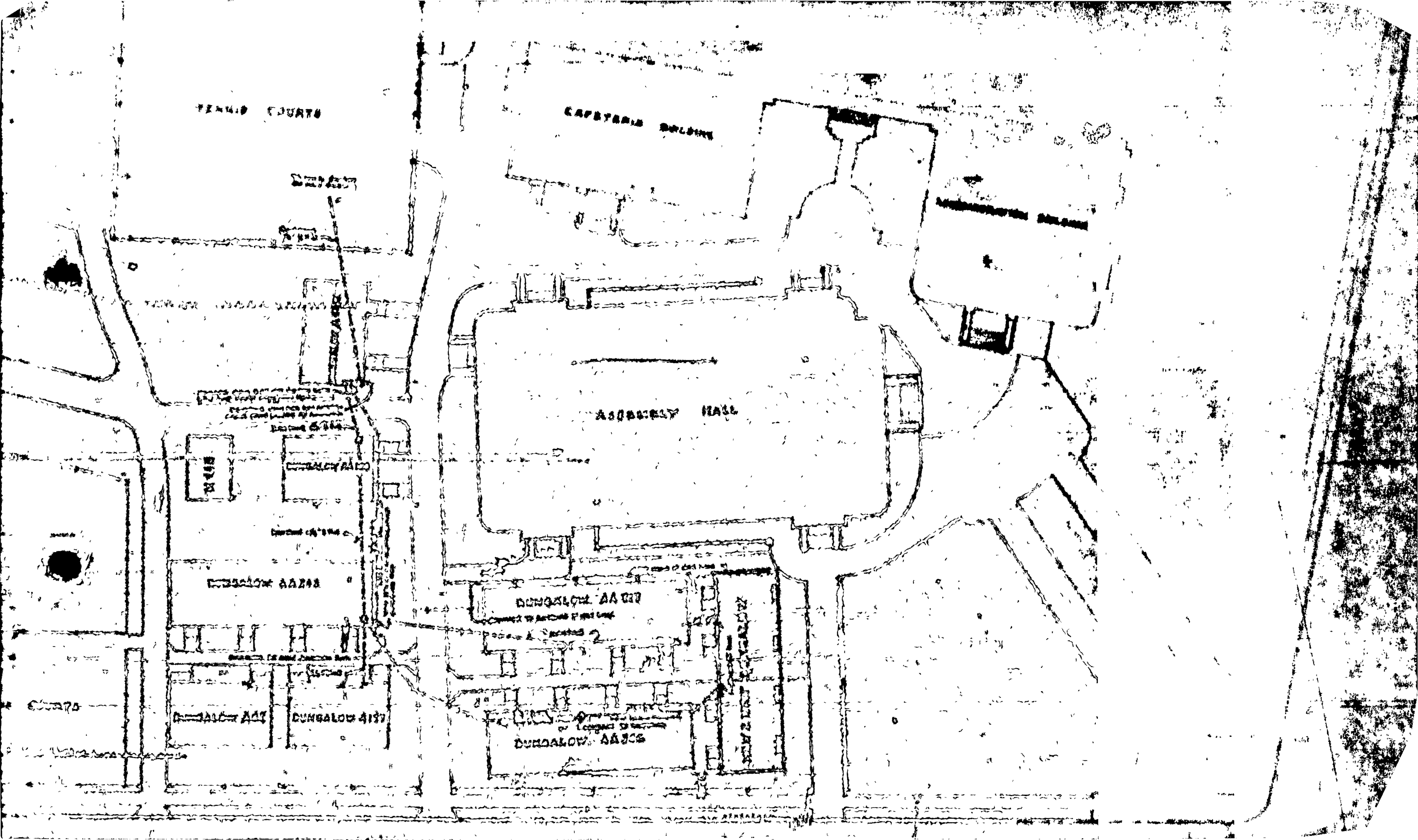
TYPE	GROUP	Building No.	Block Lot	Lot	Lot Size		
V	5	70	Corner Lot	Corner Lot Double			
Focus No. 9404		Zone R-3					
PLANS							
DATE							

PAGE F-342 873

May 8, 1947

Approve issuance of permit as per action of Commission and in conformance with proposed ordinance amendment.

Dept of City Planning
L. F. Brinkman
C. N. RK


TENNIS COURTS
CAFETERIA BUILDING
ASSEMBLY HALL
DUNGALOW AA 2
DUNGALOW AA 3
DUNGALOW AA 4
DUNGALOW 4137
DUNGALOW AA 5

1

APPLICATION TO ERECT A NEW BUILDING AND FOR A CERTIFICATE OF OCCUPANCY

Form B-1-036-9-46
CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Lot No. Parcel of Land Stephens

Tract

Location of Building 1319 E 41st St (Number and Street)

Between what cross streets Hooper & Compton

Approved by City Engineer [signature] Deputy

USE INK OR INDELIBLE PENCIL

1. Purpose of building STORAGE (Store, Dwelling, Apartment House, Hotel, or other purpose) Families ___ Rooms ___
2. Owner Los Angeles City High School District (Print Name) Phone Fe 1121
3. Owner's address 1875 S. San Pedro P.O. Los Angeles
4. Certificated Architect ___ State License No. ___ Phone ___
5. Licensed Engineer Jean Case State License No. 5322 Phone Tu 2711
6. Contractor Soule Steel Co State License No. ___ Phone ___
7. Contractor's address 6200 Washington Ave Los Angeles
8. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent fixtures, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon.) $ 7000.00
9. State how many buildings NOW on lot and give use of each. Numerous - School Bldgs (See Plot Plan Attached) (Store, Dwelling, Apartment House, Hotel or other purpose)
10. Size of new building 60 x 40 No. Stories 1 Height to highest point 21' Size lot ___ x ___
11. Material Exterior Walls Corr. Iron Type of Roofing Corr. Iron

For Accessory Buildings and similar structures:
(a) Footing: Width ___ Depth in Ground ___ Width of Wall ___
(b) Size of Studs ___ Material of Floor ___
(c) Size of Floor Joists ___ x ___ Size of Rafters ___ x ___

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Plans, Specifications and other data must be filed.

Sign here [signature] (Owner or Authorized Agent)

By ___

FOR DEPARTMENT USE ONLY

PLAN CHECKING

Date MAY 20 1946
Receipt No. 31777
Valuation $ 7000.00
Fee Paid $ 15.22

REINFORCED CONCRETE
Bbls. Cement ___
Tons of Reinforcing Steel ___

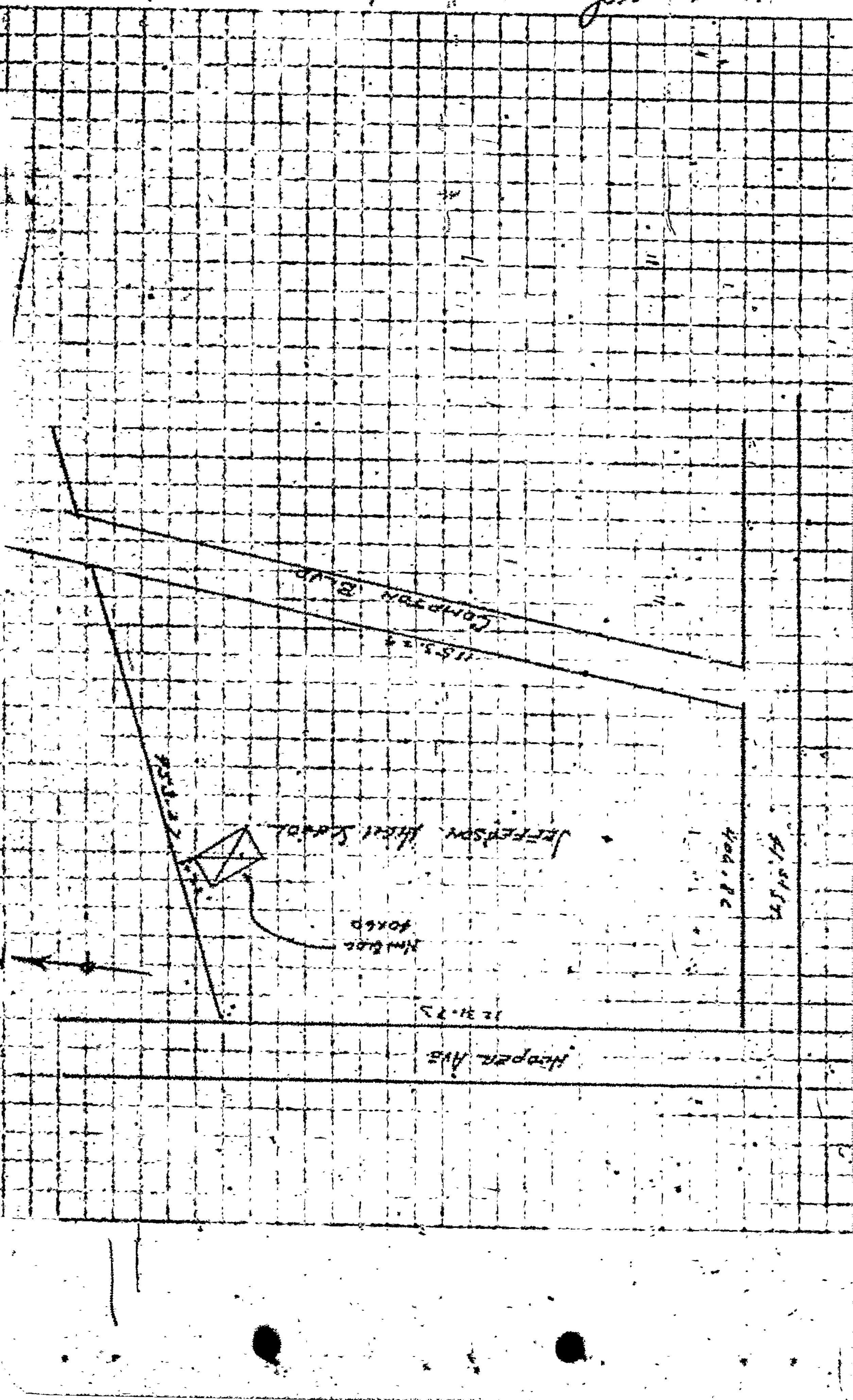
FEES
Bldg. Per. ___
Cert. of Occupancy ___
Total 24.00

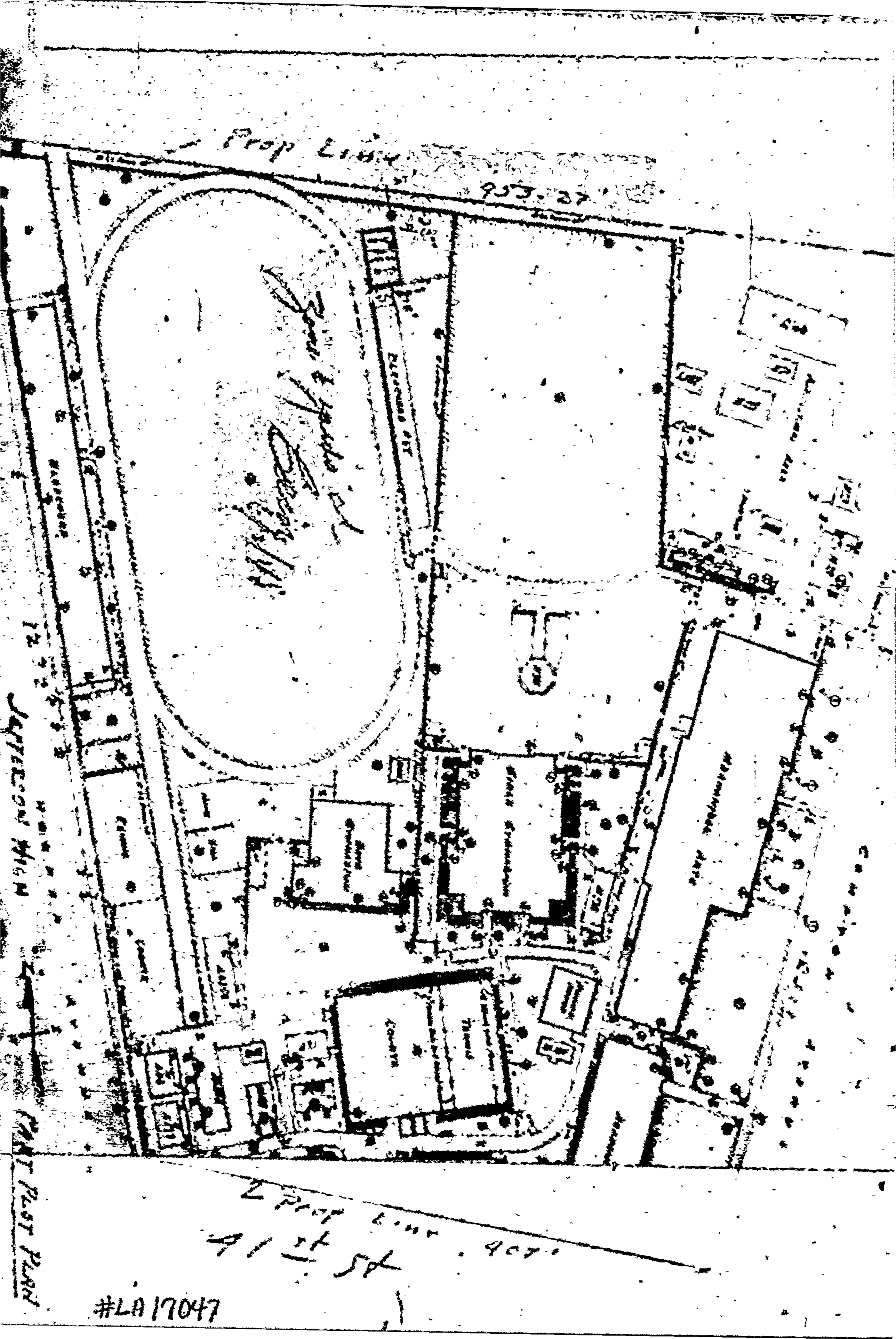
TYPE	GROUP	Maximum No. Occupants	Inside Lot / Corner Lot	Key Lot / Corner Lot Keyed	Lot size average	Ft. rear alley / Ft. side alley	Clerk Lelle
IIB	G						

PERMIT No.	Plans and Specifications checked	Zone R-3	Fire Districts ✓	District Map No. 5222
A 17047	Location Stake	Bldg. Line ✓ Ft.	Street Widening ✓ Ft.	
	Plans, Specifications and Application Examined and Approved: Rad	Application checked and Approved: Paley JUN -2 1947 Clerk		Stamp here when Permit is issued: JUN -2 1948
PLANS 1	For Plans See ___	Filed with ___	Commission Inspection: None	SPRINKLER: Specified / Required / Tabulated / Installed / Tel. ___ No. ___	Inspector Called

7764

APPROVED FOR CONSTRUCTION J.H.W.J. 5-20-48 No new driveways to be built




Prop Line
953.27
Jefferson High
Court Plot Plan
2 Prop Line 407
41st St
#LA17047

1

APPLICATION TO ERECT A NEW BUILDING AND FOR A CERTIFICATE OF OCCUPANCY

Form B 1-[illegible]

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Lot No. —

Jefferson High School

Tract Part of Sec. 9 - T. 2 S. - R. 13 W. - S.B.M.

Location of Building 1319 E. 41st St.
(House Number and Street)

Between what cross streets Compton & Hooper Ave.

Approved by City Engineer

Deputy.

USE INK OR INDELIBLE PENCIL

1. Purpose of building Incinerator (Store, Dwelling, Apartment House, Hotel or other purpose) Families — Rooms —
2. Owner Los Angeles City School District (Print Name) Phone El. 7-4471
3. Owner's address 1425 S. Mesa St. P.O. San Pedro, California
4. Certificated Architect — State License No. — Phone —
5. Licensed Engineer C. M. Hart State License No. 5382 Phone —
6. Contractor owner State License No. — Phone —
7. Contractor's address —
8. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon.) $ 1200.00
9. State how many buildings NOW on lot and give use of each. 22 - School buildings (Store, Dwelling, Apartment House, Hotel or other purpose)
10. Size of new building 6' x 15'-9" No. Stories — Height to highest point 12' Size lot Acreage x
11. Material Exterior Walls Brick Type of Roofing None
12. For Accessory Buildings and similar structures (a) Footing: Width — Depth in Ground — Width of Wall —
(b) Size of Studs See plans Material of Floor —
(c) Size of Floor Joists — x — Size of Rafters — x —

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here Board of Education
(Owner or Authorized Agent)

DISTRICT OFFICE

By C. M. Hart

FOR DEPARTMENT USE ONLY

PLAN CHECKING

Date MAY 23 '49
Receipt No. 2310
Valuation $ 1200.00
Fee Paid $ 3.00

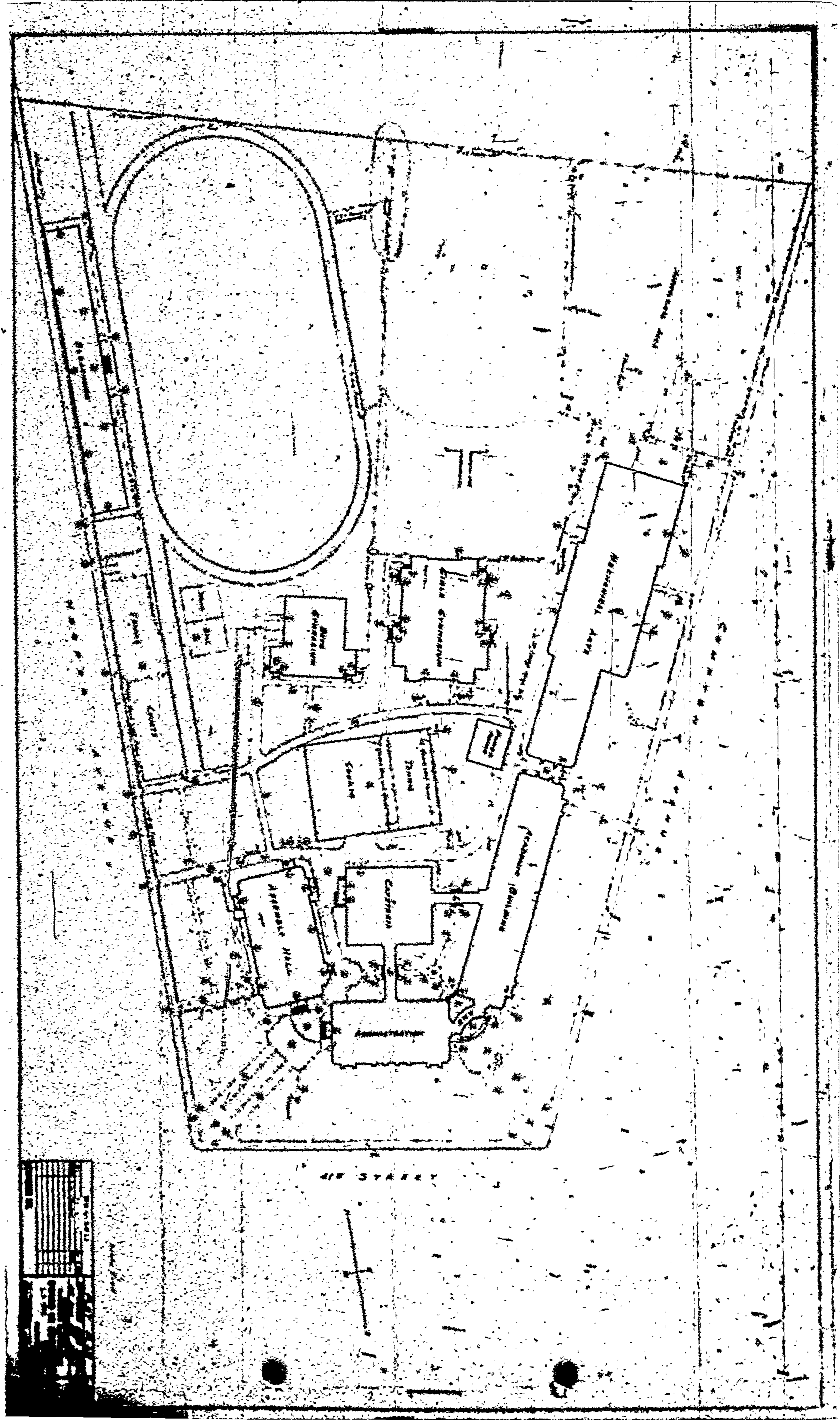
REINFORCED CONCRETE
Bbls. Cement
Tons of Reinforcing Steel

FEES
Bldg. Per.
Cert. of Occupancy
Total $3.00

TYPE	GROUP	Maximum No. Occupants	Inside Lot	Key Lot	Lot size	Ft. rear alley / Ft. side alley	Area
IV	G	Incinerator	Corner Lot	Corner Lot Keyed	1.844 Acres		

PERMIT No.	Plans and Specifications checked	Zone	Fire District	District Map No.
LA 6332	[illegible]	R-3	No.	5282
	Corrections Verified [illegible]	Bldg. Line Ft.	Street Widening Ft.	
	Plans, Specifications and Application rechecked and approved. [illegible]	Application checked and approved [illegible] Clerk		Stamp here when Permit is issued MAY 23 '49
PLANS Set 4	For Plans see	Filed with	Continuous Inspection No	SPRINKLER Specified Required Yes No / Valuation Included Yes No	Inspector [illegible]

Cash 3.00



3

APPLICATION TO ALTER, REPAIR, OR DEMOLISH AND FOR A Certificate of Occupancy

Form B-4—Rev. 10-48
CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Lot No. Part of 9

Tract 25 13 W - S.B.M

Location of Building 1319 E 41 ST (House Number and Street)

Between what cross streets Hooper & Compton

Approved by City Engineer

Deputy

USE INK OR INDELIBLE PENCIL

1. Present use of building Cafeteria (Store, Dwelling, Apartment House, Hotel or other purpose) Families 0 Rooms 11
2. State how long building has been used for present occupancy 24 Years
3. Use of building AFTER alteration or moving Cafeteria Families 0 Rooms
4. Owner L. A. City Bd of Educ. (Print Name) Phone R. 7448 1
5. Owner's Address 1925 S Soto Rodeo P.O. L.A. 54
6. Certificated Architect E.C. Bilbeck State License No. B-1362 Phone Sk 386
7. Licensed Engineer None State License No. Phone
8. Contractor Not yet awarded State License No. Phone
9. Contractor's Address
10. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon.) $ 4000 00
11. State how many buildings NOW on lot and give use of each 21 Schools (Store, Dwelling, Apartment House, Hotel or other purpose)
12. Size of existing building 68 x 22 Number of stories high 1 Height to highest point 22'
13. Material Exterior Walls Masonry (Wood, Steel or Masonry) Exterior framework Wood (Wood or Steel)
14. Describe briefly all proposed construction and work:

Interior non-structural partitions to create new dishwashing room.

NEW CONSTRUCTION

15. Size of Addition No add Size of Lot Accd Size Number of Stories when complete 1
16. Footing: Width Depth in Ground Width of Wall Size of Floor Joists x
17. Size of Studs x Material of Floor Size of Rafters x Type of Roofing

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here L.A. City Bd of Educ. (Owner or Authorized Agent)

By

DISTRICT OFFICE

FOR DEPARTMENT USE ONLY

PLAN CHECKING	CHANGE OF OCCUPANCY	FEES	
Date	Area of Bldg. Sq. Ft.		Bldg. Per. 15 00
Receipt No. 5180	Date		Cert. of Occupancy
Valuation $ 4000 00	Receipt No.		
Fee Paid $ 7 50	Fee Paid $		Total 15 00

TYPE	GROUP	Maximum No. Occupants	Inside Lot	Key Lot	Lot Size	ft. rear alley / ft. side alley	Clerk
REINFORCED CONCRETE			Corner Lot	Corner Lot Keyed	1.81 acres		Dugan
Bags Cement	Tons of Reinforcing Steel						

PERMIT No.	Plans and Specifications checked	Zone R-3	Fire District No.	District Map No. 5282
LA10061	Inspection Verified	Bldg. Line ft.	Street Widening ft.	
	Plans, Specifications and Application rechecked and approved	Application checked and approved Apr 25 1950 Clerk		Stamp here when Permit is issued APR 26 1950
PLANS		Continuous Inspection	SPRINKLER Specified—Required Valuation Included Fee —50	Inspector Jaimos
Sent	For Filing Fee / Filed with			

Form to Zoning

1

APPLICATION TO ERECT A NEW BUILDING AND FOR A CERTIFICATE OF OCCUPANCY

Form L1
CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Lot No. Part of Sec. 9 - T.2-S - R.13-W - S.B.M (Jefferson High)

Tract

Location of Building 1319 E. 41st Street (House Number and Street)

Between what cross streets Compton & Hooper

Approved by City Engineer

Deputy.

USE INK OR INDELIBLE PENCIL

1. Purpose of building Music Building (Store, Dwelling, Apartment House, Hotel or other purpose) Families — Rooms 5
2. Owner Los Angeles City High School District (Full Name) Phone RI.7-9981
3. Owner's address 1425 S. Soto St. P. O. L.A., 54
4. Certificated Architect E.R.C. Billerbeck State License No. B-1567 Phone RI.7-9981
5. Licensed Engineer Harold Oursted State License No. 5258 Phone Sh.3185
6. Contractor Job not awarded State License No. — Phone —
7. Contractor's address
8. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon) $ 35,000
9. State how many buildings NOW on lot and give use of each 6 - School Buildings (Store, Dwelling, Apartment House, Hotel or other purpose)
10. Size of new building 30' x 60' No. Stories 1 Height to highest point 17' Size lot Acreage
11. Material Exterior Walls Stucco Type of Roofing Composition
12. For Accessory Buildings and similar structures: (a) Footing: Width ____ Depth in Ground ____ Width of Wall ____ (b) Size of Studs See plans Material of Floor ____ (c) Size of Floor Joists ____ x ____ Size of Rafters ____ x ____

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here Board of Education (Owner or Authorized Agent)

DISTRICT OFFICE

By J. M. Taylor

FOR DEPARTMENT USE ONLY

PLAN CHECKING

Date MAR 1 1 51

Receipt No. LA 4080

Valuation $ 35,000

Fee Paid $ 80.00

REINFORCED CONCRETE

Bbls. Cement

Tons of Reinforcing Steel

FEES

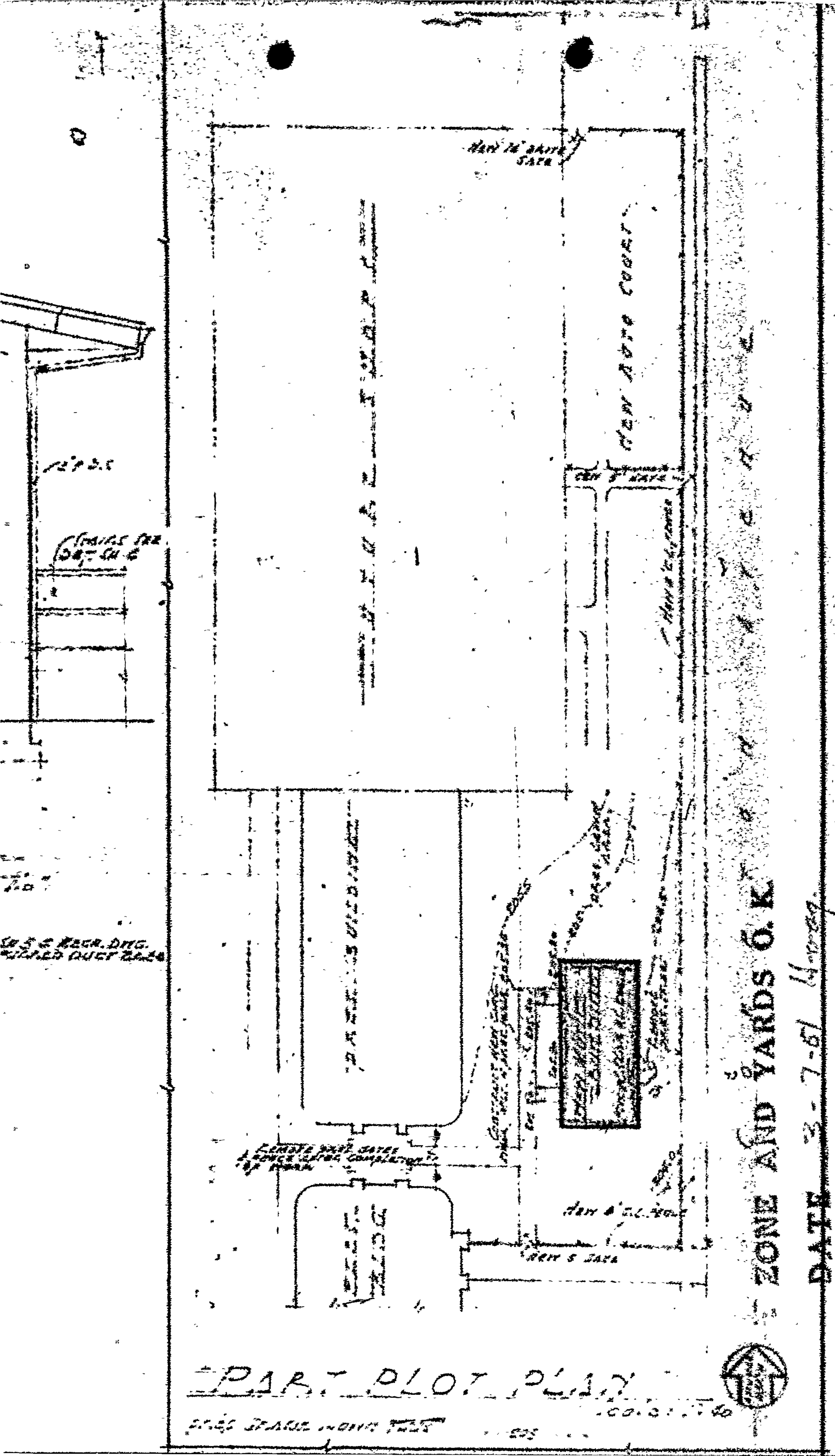
Bldg. Per

Cert. of Occupancy

Total 93.00

TYPE	GROUP	Maximum No. Occupants	Inside Lot / Corner Lot	Key Lot / Corner Lot Keyed	Lot Size	Ft. rear alley / Ft. side alley	Clerk
V	S-1	74			18.49 Acres		Davis

PERMIT No.	Plans and Specifications checked	Zone	Fire District	District Map No.
LA 5127		R-3	No. —	5282
	Corrections checked	Bldg. Line — Ft.	Street Widening — Ft.	
	Plans, Specifications and Application checked and approved	Application checked and approved MAR 15 1951 Clerk		Stamp here when Permit is issued
PLANS Rec'd	For Plans See	Filed with	Continuous Inspection	SPRINKLER Specified—Required Valuation Included Yes — No	Inspector



ZONE AND YARDS O.K.
DATE 3-7-61
PART PLOT PLAN

3

APPLICATION TO ALTER, REPAIR, or DEMOLISH AND FOR A Certificate of Occupancy

Form B-3
CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Lot No. _____ (Reference Map)

Tract Part of Sec. 9 - T.2.S - R.12.W - S.B.M

Location of Building 1319 E. 41st Street (House Number and Street)

Approved by City Engineer

Between what cross streets? Hooper & Compton

Deputy

USE INK OR INDELIBLE PENCIL

1. Present use of building Shops (Bldg. #3) (Store Dwelling Apartment House, Hotel or other purpose) Families — Rooms 13
2. State how long building has been used for present occupancy 13 yrs
3. Use of building AFTER alteration or moving Same Families — Rooms 13
4. Owner L. A. City High School District (Print Name) Phone El. 7-4481
5. Owner's Address 1425 S. Santa Fe St. P. O. L.A. 54
6. Certificated Architect E. R. C. Billerbeck State License No C-1567 Phone El. 7-4481
7. Licensed Engineer — State License No — Phone —
8. Contractor owners State License No — Phone 46.386
9. Contractor's Address owners
10. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon) $ 2150.00
11. State how many buildings NOW on lot and give use of each 8 school buildings (Store, Dwelling, Apartment, House, Hotel or other purpose)
12. Size of existing building 60' x 150' Number of stories high 1 Height to highest point 21'
13. Material Exterior Walls Masonry (Wood, Steel or Masonry) Exterior framework Wood (Wood or Steel)
14. Describe briefly all proposed construction and work

Construct new partition in Existing Electric Shop to create new passageway from main corridor to the outside (West Side) of building. Other minor alterations.

NEW CONSTRUCTION

15. Size of Addition None Size of Lot Irregular Number of Stories when complete 1
16. Footing: Width ___ Depth in Ground ___ Width of Wall ___ Size of Floor Joists x ___
17. Size of Studs x ___ Material of Floor ___ Size of Rafters x ___ Type of Roofing ___

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here Board of Education (Owner or Authorized Agent)

DISTRICT OFFICE

By J. W. Taylor

TYPE OF RECEIPT: Certificate of Occupancy Survey

DATE ISSUED

TRACER NO. (31)

RECEIPT NO.

CODE

FEE PAID

FOR DEPARTMENT USE ONLY

PLAN CHECKING		OCCUPANCY SURVEY	
Valuation $ 2150.00		Area of Bldg. ___ Sq. Ft.	Investigation Fee $
Fee $ 5.00		Fee $	Cert. of Occupancy Fee $
			Bldg. Permit Fee $ 9.60
			Total $ 9.60

TYPE	Maximum No. Occupants	Inside Lot / Corner Lot	Key Lot / Corner Not Reversed	Lot Size	Ft. rear alley / Ft. side alley	Clerk
III-A	No Change			1 Acre		Dwg
GROUP	**Plans and Specifications checked**	**Zone**	**Fire District**		**District Map No.**	
S	J. Taylor	R-3	— No.		5282	
For Plans Fee	**Correction Verified**	**Bldg. Line**	**Street Widening**		**Application checked and approved**	
—	J. Taylor	— Ft.	— Ft.		1-27-51	Clerk
Filed with	**Plans, specifications and Application rechecked and approved.**	**Continuous Inspection**	**SPRINKLER** Sprinkler Required / Valuation Included / Yes — No		**Inspector**	
X	J. Taylor	None			Owners	

DO NOT WRITE BELOW THIS LINE

TYPE OF RECEIPT	DATE ISSUED	TRACER NO. (31)	RECEIPT NO.	CODE	FEE PAID
Plan Checking	JAN 23 51		439		
Supplemental Plan Checking					
Building Permit	JAN 24 1951		VA 33330		

No Area Additions

1 ELECT. DIV.
Elec. req'd.
Appr. not reqd. before bldg. permit
Plans filed

APPLICATION TO ERECT A NEW BUILDING
AND FOR A
Certificate of Occupancy

Form B-1
CITY OF LOS ANGELES
DEPARTMENT
OF
BUILDING AND SAFETY
BUILDING DIVISION

Lot No. Part of Property of George Stephenson

Tract (Jefferson Hi)

Location of Building 1319 E. 41st St. L.A.
(House Number and Street)

Between what cross streets? Hooper Ave & Compton Ave

Approved by City Engineer
Deputy.

USE INK OR INDELIBLE PENCIL

1. Purpose of building School - Boys Gym. Families — Rooms 30
(Store, Dwelling, Apartment House, Hotel or other purpose)
2. Owner Los Angeles City High School District Phone RI 7-4481
(Print Name)
3. Owner's Address 1425 So. San Pedro St. P. O. Los Angeles St.
4. Certificated Architect James H. Van Dyke State License No. C-1082 Phone DU 2-2385
5. Licensed Engineeer S. B. Barnes State License No. 601 Phone DU 2-2385
6. Contractor Job Not Awarded State License No. — Phone —
7. Contractor's Address Owners
8. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon.) $425,000
9. State how many buildings NOW on lot and give use of each. School Buildings
(Store, Dwelling, Apartment House, Hotel or other purpose)
10. Size of new building 163' x 168' No. Stories 1 Height to highest point 37' Size lot Acreage x
11. Material Exterior Walls Concrete Type of Roofing Compo.
12. For Accessory Buildings and similar structures
(a) Footing: Width Depth in Ground Width of Wall
(b) Size of Studs See Plans Material of Floor
(c) Size of Floor Joists x Size of Rafters x

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here Board of Education
(Owner or Authorized Agent)
By B. L. Kimball

DISTRICT OFFICE

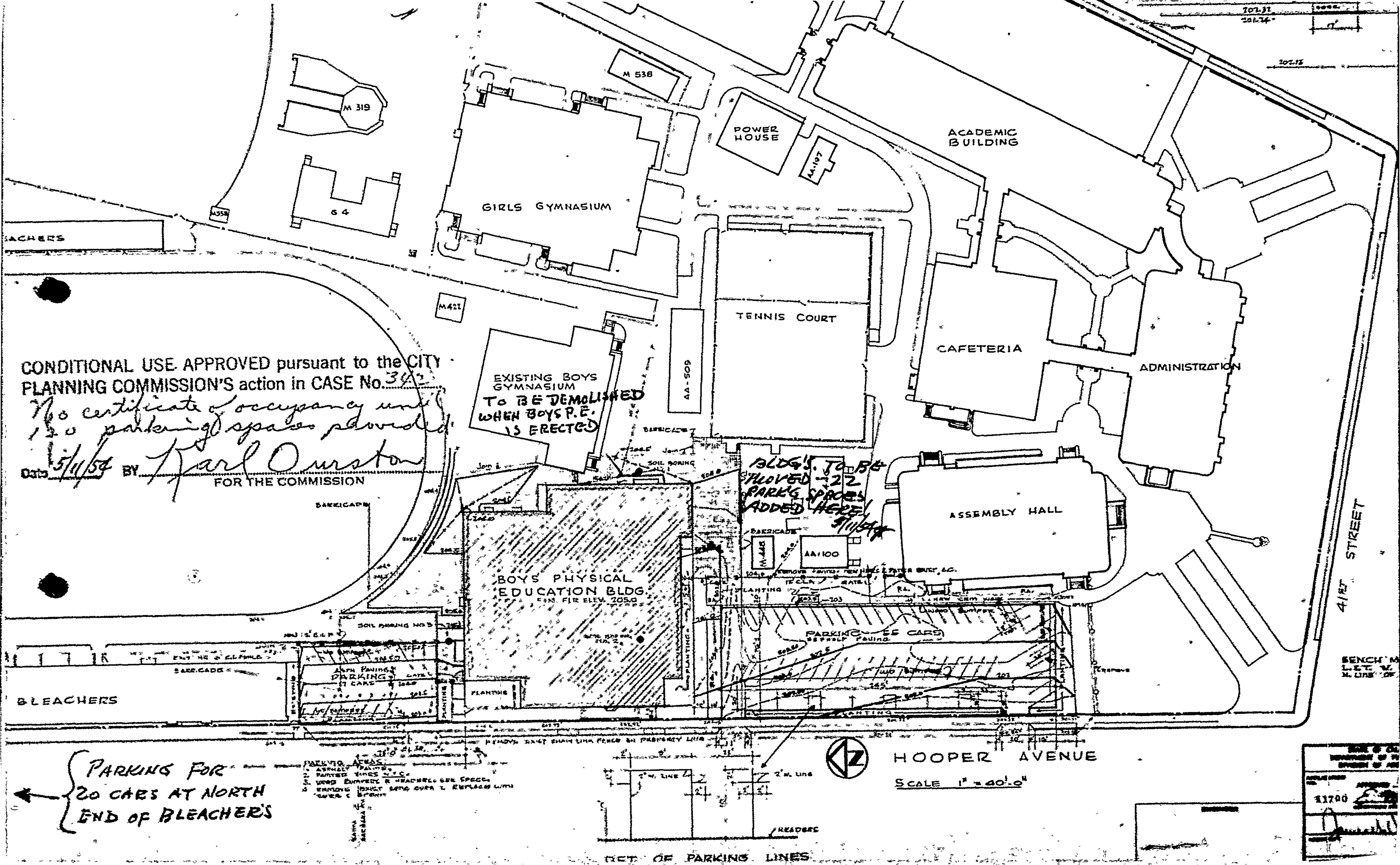
FOR DEPARTMENT USE ONLY

PLAN CHECKING					
Valuation $ 425,000	$				Investigation Fee $ 5.00 Bldg. Permit Fee $ 523.00 Total $ 528.00
Fee $ 250.-	$				
TYPE II	Maximum No. Occupants	Inside Lot THRU / Corner Lot	Key Lot / Corner Lot Keyed	Lot Size 18.4 Acres.	X Ft. rear alley / Ft. side alley / Clerk
GROUP 5	Plans and Specifications checked Carter		Zone R-3	Fire District No. —	District Map No. 5282
For Plans See —	Correction Verified Carter		Bldg. Line — Ft.	Street Widening — Ft.	Application checked and approved MAY 13 1954 Clerk
Filed with X	Plans, Specifications and Application rechecked and approved Tatchell		Continuous Inspection —	SPRINKLER Specifications Required Valuation Included Yes — No	Inspector Bliss

CASE # 342

DO NOT WRITE BELOW THIS LINE

TYPE OF RECEIPT	DATE ISSUED	TRACER NO. (M)	RECEIPT NO.	CODE	FEE PAID
Plan Checking	MAY 11 1954		[illegible]		
Supplemental Plan Checking					✓
Building Permit	MAY 14 1954		LA85978		



CONDITIONAL USE APPROVED pursuant to the CITY PLANNING COMMISSION'S action in CASE No. 342

No certificate of occupancy until 120 parking spaces provided

Date 5/11/54 BY Karl Ourston

FOR THE COMMISSION

11700

3

APPLICATION TO ALTER, REPAIR, or DEMOLISH AND FOR A Certificate of Occupancy

Form B-3
CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Lot No. PART OF PROPERTY OF GEO. STEPHENSON

Tract (JEFFERSON KI)

Location of Building 1319 E 41st ST. (House Number and Street)

Between what cross streets? HOOPER & COMPTON

Approved by City Engineer ..... Deputy.

USE INK OR INDELIBLE PENCIL

1. Present use of building SCHOOL (CLASSROOM A-497) (Store, Dwelling, Apartment House, Hotel or other purpose) Families — Rooms 1
2. State how long building has been used for present occupancy 8 yrs.
3. Use of building AFTER alteration or moving Same Families — Rooms 1
4. Owner LOS ANGELES CITY HIGH SCHOOL DISTRICT (Print Name) Phone RI 7-4481
5. Owner's Address 1425 So. SAN PEDRO ST. P. O. LOS ANGELES 54
6. Certificated Architect ALFRED WHITTLE State License No. C-1251 Phone RI 7-4481
7. Licensed Engineer — State License No. — Phone —
8. Contractor JOB NOT AWARDED State License No. — Phone —
9. Contractor's Address OWNERS
10. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and elevator equipment therein or thereon} $ 500 —
11. State how many buildings NOW on lot and give use of each. SCHOOL BUILDINGS. (Store, Dwelling, Apartment House, Hotel or other purpose)
12. Size of existing building 24 x 38' Number of stories high 1 Height to highest point 16'
13. Material Exterior Walls WOOD (Wood, Steel or Masonry) Exterior framework WOOD. (Wood or Steel)
14. Describe briefly all proposed construction and work:

Relocate existing bungalow A-497 from present to new location on site. Reset on new wye sills and underpinnings per standard requirements.

NEW CONSTRUCTION

15. Size of Addition NONE x Size of Lot ACREAGE x Number of Stories when complete 1
16. Footing: Width Depth in Ground SEE PLANS Width of Wall Size of Floor Joists x
17. Size of Studs x Material of Floor Size of Rafters x Type of Roofing

I hereby certify that to the best of my knowledge and belief the above application is correct and that this building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here Board of Education (Owner or Authorized Agent)

By B. L. Kimball

DISTRICT OFFICE 9 of 9

TYPE OF RECEIPT: Certificate of Occupancy / Occupancy Survey
DATE ISSUED
TRACER NO. (M)
RECEIPT NO.
CODE
FEE PAID

FOR DEPARTMENT USE ONLY

PLAN CHECKING		OCCUPANCY SURVEY	
Valuation $ 7500 —		Area of Bldg. ..... Sq. Ft.	Investigation Fee $
Fee $ 15 00		Fee $	Cert. of Occupancy Fee $
			Bldg. Permit Fee $
			Total $ 3 50

TYPE	Maximum No. Occupants	Inside Lot	Key Lot	Lot Size		Clerk
V	No Change	THRU / Corner Lot	Corner Lot Keyed	18.4 Acres	X Ft. rear alley / Ft. side alley	Hatch
GROUP	Plans and Specifications checked	Zone	Fire District			
S	[illegible]	R-3	No.		District Map No. 5282	
For Plans See	Correction Verified	Bldg. Line	Street Widening		Application checked and approved	
/	[illegible]	— Ft.	/ Ft.		[illegible]	Clerk
Filed with	Plans, Specifications and Application rechecked and approved.	Continuous Inspection	SPRINKLER Specified—Required Valuation Included Yes— —No		Inspector	
	[illegible]	NO	X		[illegible]	

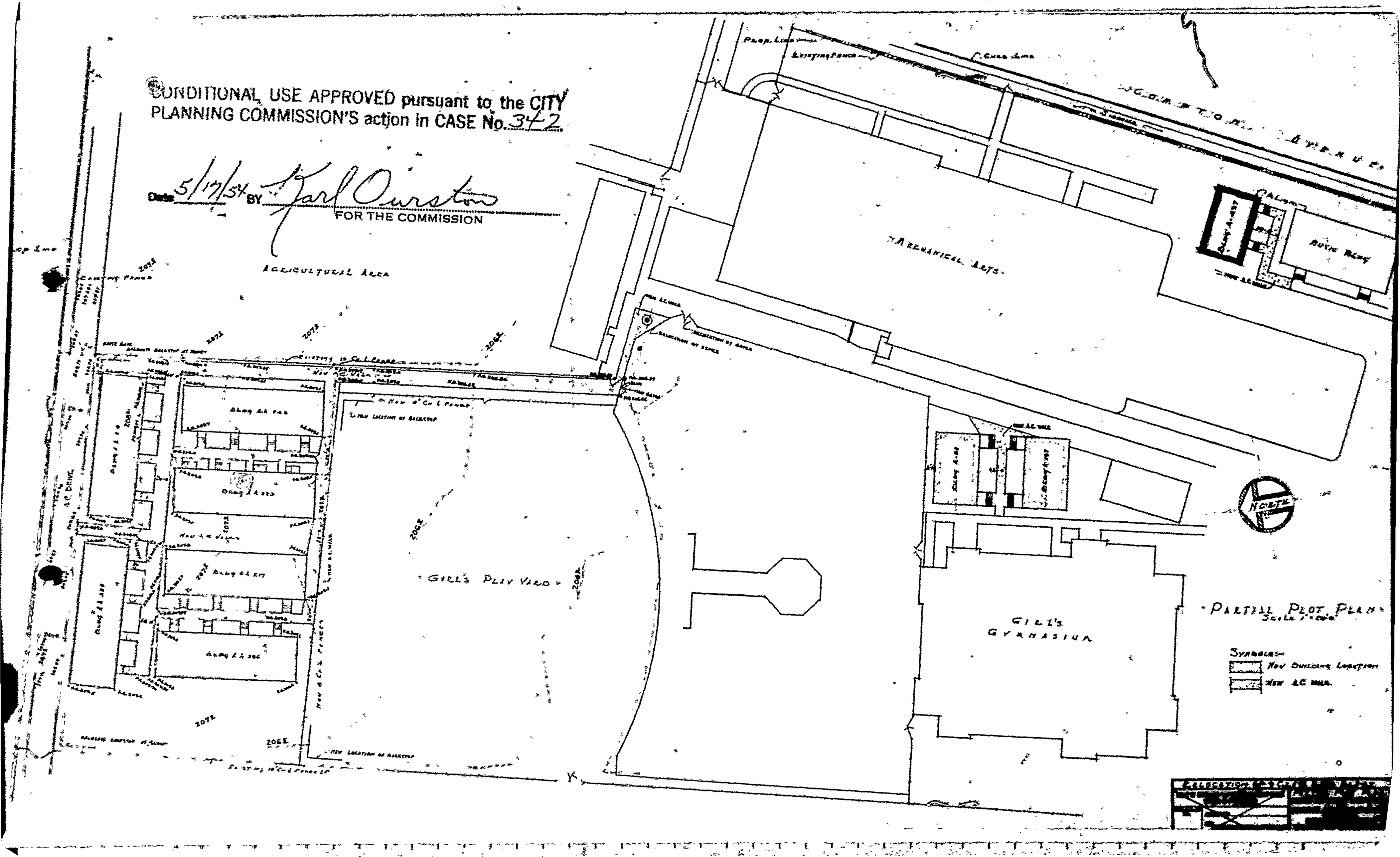
CASE # 342

DO NOT WRITE BELOW THIS LINE

TYPE OF RECEIPT	DATE ISSUED	TRACER NO. (M)	RECEIPT NO.	CODE	FEE PAID
Plan Checking	[redacted]	Oct 26, 54	[redacted]		6.02 42
Supplemental Plan Checking					
Building Permit	JUN 2 1954		LA88756		

CONDITIONAL USE APPROVED pursuant to the CITY PLANNING COMMISSION'S action in CASE No. 342

Date 5/17/54 BY Karl Ourston
FOR THE COMMISSION



1

APPLICATION TO CONSTRUCT NEW BUILDING
AND FOR CERTIFICATE OF OCCUPANCY

CITY OF LOS ANGELES — DEPT. OF BUILDING AND SAFETY

DIST. MAP 5282	1. LEGAL LOT: Part of Property of George Stephenson; BLK.; TRACT
ZONE R-3	JOB ADDRESS: 1319 East 41st Street; APPROVED RW2
FIRE DIST. —	2. BETWEEN CROSS STREETS: Compton AND Hooper
INSIDE / KEY	3. PURPOSE OF BLDG.: Girls Physical Education
COR. LOT / REV. COR.	4. OWNER: L. A. City High School District
LOT SIZE 18.44 acres	5. OWNER'S ADDRESS: 1425 S. San Pedro St.
REAR ALLEY / SIDE ALLEY	6. CERT. ARCH. James H. Van Dyke; STATE LICENSE NUMBER C-1082
BLDG. LINE —	7. LIC. ENGR. S. B. Barnes; STATE LICENSE NUMBER Str. 1
~~AFFIDAVITS~~ CASE 342	8. CONTRACTOR: Job not awarded; STATE LICENSE NUMBER
BLDG. AREA 15000	9. SIZE OF NEW BLDG.: 126 x 128; STORIES 1; HEIGHT 28'
SPRINKLERS REQ'D. — SPECIFIED X	10. MATERIAL OF EXTERIOR WALLS: ☐ WOOD ☐ STUCCO ☐ METAL ☐ BRICK ☐ CONC. BLOCK ☒ CONCRETE

1 1319 E. 41st Street

VALIDATION 1.A40655

JAN--9-56	27594	B — 2 CK 200.00
APR-17-56	45554	B — 1 CK 448.00

TYPE	GROUP	MAX. OCC.
~~II~~ I	S-1	280

DIST. OFFICE LA. IN RH102 400 TOTAL

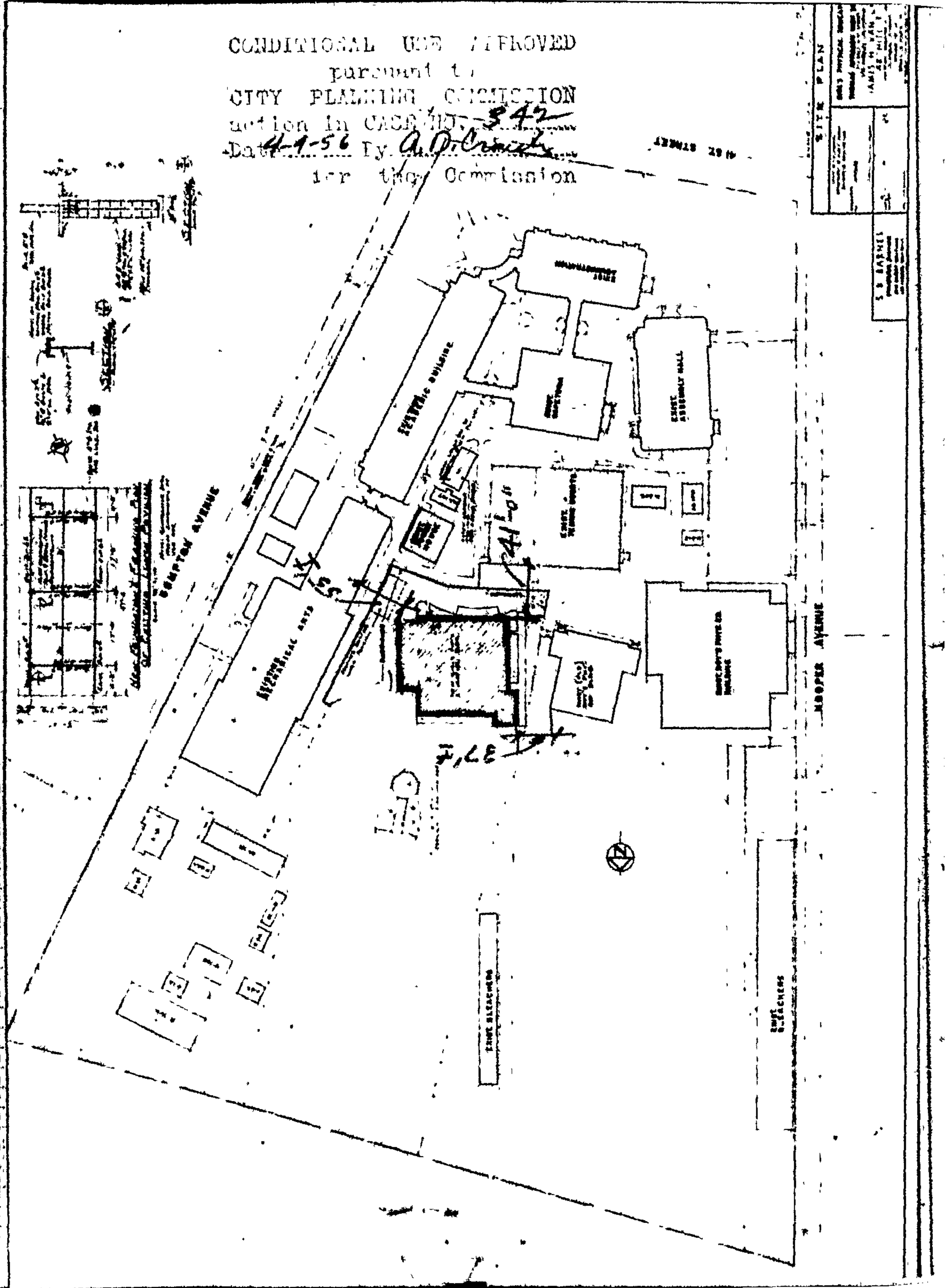
C. OF O. ISSUED P/C = $200 BP 448.00

DWELL. UNITS —	11. VALUATION; TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO OPERATE AND USE PROPOSED BUILDING. $ 349,000
PARKING SPACES —	Sh. 1 175 Total Val. 350,000
GUEST ROOMS —	I certify that in doing the work authorized hereby I will not employ any person in violation of the Labor Code of the State of California relating to workmen's compensation insurance.
FILE WITH —	
CONT. INSP.	BOARD OF EDUCATION
	SIGNED J. W. Taylor
	1 of 3
	This Form When Properly Validated is a Permit to Do the Work Described

VALUATION APPROVED: Galin
APPLICATION CHECKED: [illegible]
PLANS CHECKED: Galin
CORRECTIONS VERIFIED: Galin
PLANS APPROVED: [illegible]
APPLICATION APPROVED: [illegible]

Form B-L-9676 INSTRUCTIONS: 1. Applicant to Complete Numbered Items Only. 2. Plot Plan Required on Back of Original. WHK

CONDITIONAL USE APPROVED
pursuant to
CITY PLANNING COMMISSION
action in CASE NO. 542
Date 4-1-56 By A. D. Crocker
for the Commission



ZIMAS

Public

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1319 E 41ST ST

Font: A A A +/-

Address/Legal

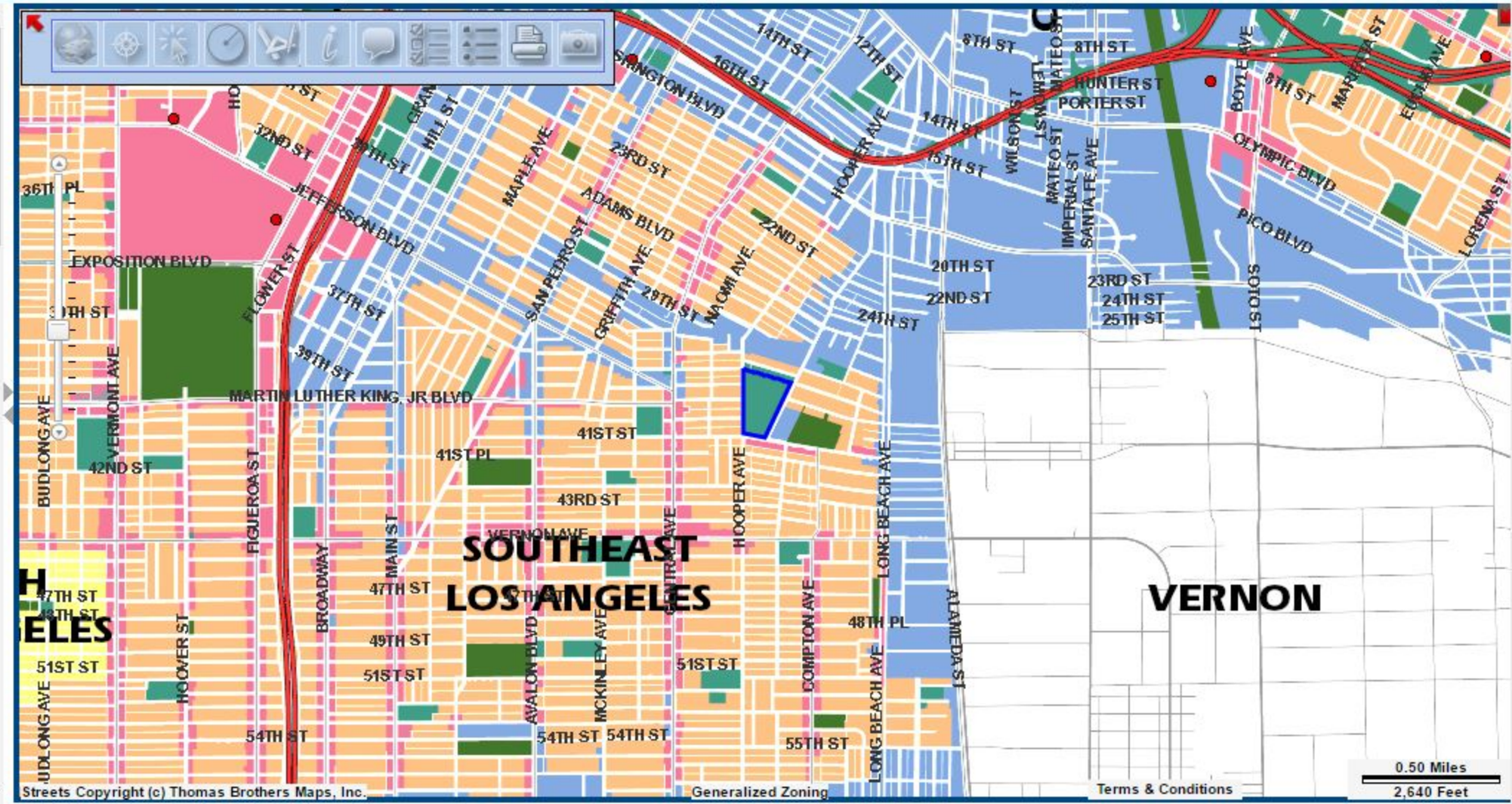
Site Address	3410 S HOOPER AVE
Site Address	1319 E 41ST ST
ZIP Code	90011
PIN Number	115-5A211 9
Lot/Parcel Area (Calculated)	788,668.0 (sq ft)
Thomas Brothers Grid	PAGE 674 - GRID F2
Thomas Brothers Grid	PAGE 674 - GRID F3
Assessor Parcel No. (APN)	5114036900
Tract	GEORGE STEPHENSON
Map Reference	M R 53-31
Block	None
Lot	FR "UNNUMBERED LT"
Arb (Lot Cut Reference)	1
Map Sheet	115-5A211
Map Sheet	117A211

Jurisdictional

Community Plan Area	Southeast Los Angeles
Area Planning Commission	South Los Angeles
Neighborhood Council	South Central
Council District	CD 9 - Curren D. Price, Jr.
Census Tract #	2282.10
LADBS District Office	Los Angeles Metro
Building Permit Info	View

Planning and Zoning

Special Notes	None
Zoning	PF-1
Zoning Information (ZI)	ZI-2452 Transit Priority Area in the City of Los Angeles
Zoning Information (ZI)	ZI-2374 LOS ANGELES STATE ENTERPRISE ZONE
General Plan Land Use	Public Facilities
General Plan Footnote(s)	Yes
Hillside Area (Zoning Code)	No
Baseline Hillside Ordinance	No
Baseline Mansionization Ordinance	No
Specific Plan Area	South Los Angeles Alcohol Sales
Historic Preservation Review	Yes



From: Lisa Andrews <lisa.andrews@lacity.org>
Sent: Wednesday, May 04, 2016 9:20 AM
To: Blanchard, Robin
Cc: Steve Pedersen; Ching Peng; Kharaghani, Shahram; Veretta Everheart; Navarro, Marichu; Vega, Robert; Ammar Eltawil
Subject: Re: Request for Public Records Review - Jefferson High School 1319 41st

Good morning,

LASAN/WPD has no records.

From: Marichu Navarro <marichu.navarro@lacity.org>
Date: April 22, 2016 at 1:47:20 PM PDT
To: Adrienne Tong <adrienne.tong@lacity.org>, Ali Poosti <ali.poosti@lacity.org>, Barry Berggren <barry.berggren@lacity.org>, Bellete Yohannes <bellete.yohannes@lacity.org>, Fernando Gonzalez <fernando.gonzalez@lacity.org>, Kwasi Berko <kwasi.berko@lacity.org>, Michael Simpson <michael.simpson@lacity.org>, Shahram Kharaghani <shahram.kharaghani@lacity.org>, Veretta Everheart <veretta.everheart@lacity.org>
Subject: Fwd: Request for Public Records Review - Jefferson High School 1319 41st
fya....

---------- Forwarded message ----------
From: Blanchard, Robin <RBlanchard@partneresi.com>
Date: Fri, Apr 22, 2016 at 12:14 PM
Subject: Request for Public Records Review - Jefferson High School 1319 41st
To: Veretta Everheart <veretta.everheart@lacity.org>
Cc: Marichu Navarro <marichu.navarro@lacity.org>

Hello,
Partner is conducting a Phase I ESA for the Jefferson High School property with a primary address of:

1319 41st Street, Los Angeles California 90011

There are secondary historical addresses of

3410 Hooper Avenue, and

3219-4049 South Compton Avenue (odd only)

I and would appreciate reviewing any applicable files at your earliest convenience.

Thank you and have a nice weekend
Robin Blanchard

Partner Engineering & Science, Inc
2154 Torrance Boulevard, Torrance CA 90501
310-702-2167

--
Marichu Navarro
LA Sanitation - Administration Division
(213) 485-2832

--
Lisa Andrews, Secretary to
Dr. Shahram Kharaghani, P.E., BCEE
Program Manager
Watershed Protection Division
LA Sanitation - City of Los Angeles
1149 South Broadway, 10th Floor
(213) 485-3995 (W)
(213) 485-3939 (F)

Stay in the Loop!

LOS ANGELES FIRE DEPARTMENT
UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

ADDRESS: 200 NORTH MAIN ST., 17TH FLR. RM. 1700

NEW OFFICE# - 213-978-3700 NEW EMAIL lafd.usttestnotify@lacity.org

PLEASE GIVE US 7 TO 10 BUSINESS DAYS TO HONOR YOUR REQUEST.

ONE ADDRESS ONLY - PER SHEET

COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED

PHONE NO: (310)__702-2167_____ EMAIL: __rblanchard@partneresi.com_____

NAME OF REQUESTER (PLEASE PRINT): ____Robin Blanchard_____

REPRESENTING (COMPANY NAME): ____Partner Engineering and Science, Inc._____

SIGNATURE: Robin Blanchard Digitally signed by Robin Blanchard DN: cn=Robin Blanchard, c=US, o=Partner Engineering and Science, ou=PAC, email=rblanchard@partneresi.com Date: 2016.04.22 12:19:44 -07'00' DATE:_4_/_20__/_16__

DRIVER LIC NO: __CDLN9875772_____ EXP:____09-13-16_____

ADDRESS FOR WHICH RECORDS ARE REQUESTED: ___3 410 Hooper Avenue, L os A ngeles 90011_____

_____

REASON FOR REQUEST: ____Phase I Environmental Site Assessment_____

NO COPY SERVICES ALLOWED

FOR OFFICE USE ONLY:

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF PAGES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING & ACCOUNTS RECEIVABLE
16TH FL, Rm. 1620, 200 N. MAIN (REV CODE #3887)

NO FILE FOUND

LOS ANGELES FIRE DEPARTMENT
UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS

ADDRESS: 200 NORTH MAIN ST., 17TH FLR. RM. 1700

NEW OFFICE# - 213-978-3700 NEW EMAIL lafd.usttestnotify@lacity.org

PLEASE GIVE US 7 TO 10 BUSINESS DAYS TO HONOR YOUR REQUEST.

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (310)__702-2167_____ EMAIL: __rblanchard@partneresi.com_____

NAME OF REQUESTER (PLEASE PRINT): ____Robin Blanchard_____

REPRESENTING (COMPANY NAME): ___Partner Engineering and Science, Inc._____

SIGNATURE: Robin Blanchard Digitally signed by Robin Blanchard DN: cn=Robin Blanchard, c=US, o=Partner Engineering and Science, ou=PAC, email=rblanchard@partneresi.com Date: 2016.04.22 11:07:48 -07'00' DATE: __04/_20_/__16__

DRIVER LIC NO: __CDLN9875772_____ EXP:____09-13-16_____

ADDRESS FOR WHICH RECORDS ARE REQUESTED: _____1319 East 41st Street Los Angeles 90011____

_____(any records for Jefferson High School) _____

REASON FOR REQUEST: ____Phase I Environmental Site Assessment_____

NO COPY SERVICES ALLOWED

FOR OFFICE USE ONLY:

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF PAGES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING & ACCOUNTS RECEIVABLE
16TH FL, Rm. 1620, 200 N. MAIN (REV CODE #3887)

NO FILE FOUND

From: DPH-phicor <phicor@ph.lacounty.gov>
Sent: Wednesday, May 04, 2016 9:30 AM
To: Blanchard, Robin
Subject: RE: HAZMAT FILE REVIEW FOR COR# 162771

Ok, you are confirmed for Tuesday 5/10/16 at 10 A.M.

Thank You

Public Health Investigation
Los Angeles County Department of Public Health
5555 Ferguson Drive, Suite 120-04
Commerce, CA 90022
(323) 890-7806 Office
(323) 728-0217 Fax
http://www.publichealth.lacounty.gov/
http://www.publichealth.lacounty.gov/phi/

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From: Blanchard, Robin [mailto:RBlanchard@partneresi.com]
Sent: Wednesday, May 04, 2016 9:27 AM
To: DPH-phicor <phicor@ph.lacounty.gov>
Subject: RE: HAZMAT FILE REVIEW FOR COR# 162771

How about 10 am?

From: DPH-phicor [mailto:phicor@ph.lacounty.gov]
Sent: Wednesday, May 04, 2016 9:26 AM
To: Blanchard, Robin <RBlanchard@partneresi.com>
Subject: RE: HAZMAT FILE REVIEW FOR COR# 162771

Sure, what time works for you?

From: Blanchard, Robin [mailto:RBlanchard@partneresi.com]
Sent: Wednesday, May 04, 2016 9:17 AM
To: DPH-phicor <phicor@ph.lacounty.gov>
Subject: RE: HAZMAT FILE REVIEW FOR COR# 162771

How about next Tuesday Morning?

From: DPH-phicor [mailto:phicor@ph.lacounty.gov]
Sent: Wednesday, May 04, 2016 9:07 AM
To: Blanchard, Robin <RBlanchard@partneresi.com>

Subject: RE: HAZMAT FILE REVIEW FOR COR# 162771

Hello,

Not a problem. When would you like to come?

Thank You

Public Health Investigation
Los Angeles County Department of Public Health
5555 Ferguson Drive, Suite 120-04
Commerce, CA 90022
(323) 890-7806 Office
(323) 728-0217 Fax
http://www.publichealth.lacounty.gov/
http://www.publichealth.lacounty.gov/phi/

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you think you have received this e-mail message in error, please notify the sender immediately.

From: Blanchard, Robin [mailto:RBlanchard@partneresi.com]
Sent: Wednesday, May 04, 2016 9:01 AM
To: DPH-phicor <phicor@ph.lacounty.gov>
Subject: RE: HAZMAT FILE REVIEW FOR COR# 162771

Hello,
I would like to review this file – I have attached a letter of authorization from the property owner,
LAUSD, to review the entire file

Thank you,
Robin Blanchard
Partner ESI, Torrance
310-702-2167

From: DPH-phicor [mailto:phicor@ph.lacounty.gov]
Sent: Thursday, April 28, 2016 12:57 PM
To: Blanchard, Robin <RBlanchard@partneresi.com>
Subject: HAZMAT FILE REVIEW FOR COR# 162771

Hello,
We have received a file for 1319 41ST ST. LOS ANGELES, CA 90011. Please contact our office
to schedule a file review. If we do not hear from you the files will be returned in 10 days. Also,
let us know and forward owner permission to review the entire file.

Thank You

Public Health Investigation

Los Angeles County Department of Public Health
5555 Ferguson Drive, Suite 120-04
Commerce, CA 90022
(323) 890-7806 Office
(323) 728-0217 Fax
http://www.publichealth.lacounty.gov/
http://www.publichealth.lacounty.gov/phi/

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you think you have received this e-mail message in error, please notify the sender immediately.

76P235M—5/63

434 South San Pedro Street AIR POLLUTION CONTROL DISTRICT Los Angeles 13, California

PERMIT TO OPERATE

P 1746

G/14-2

Operation under this permit must be conducted in compliance with all data and specifications included with the application under which this permit is issued. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 10(c), this Permit to Operate must be posted or accessible.

Appl. No. G-825

LEGAL OWNER OR OPERATOR: LOS ANGELES CITY SCHOOL DISTRICTS
JEFFERSON HIGH SCHOOL

EQUIPMENT LOCATED AT: 1319 EAST 41ST STREET
LOS ANGELES, CALIFORNIA

EQUIPMENT DESCRIPTION AND CONDITIONS: SPRAY BOOTH, SPRAYKING, AUTOMOTIVE FILTER TYPE, SERIES 200, 14'-4" W. X 25'-4" L. X 9'-8" H. WITH A 2 H.P. EXHAUST FAN.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR ADDRESS, OR ANY ALTERATION

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 20, Chapter 2, Article 3, of the Health and Safety Code of the State of California or the Rules and Regulations of the Air Pollution Control District. This permit cannot be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies.

" GOVERNMENT APPLICATION - NO FEE "

VOID UNLESS VALIDATED

AIR POLLUTION CONTROL OFFICER

BY Beth Malin

Beth Malin, Permit Processing

DATE February 6, 1964

76P235M—5/63

434 South San Pedro Street AIR POLLUTION CONTROL DISTRICT Los Angeles 13, California

PERMIT TO OPERATE

P 7057

A/NL

Operation under this permit must be conducted in compliance with all data and specifications included with the application under which this permit is issued. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 10(c), this Permit to Operate must be posted or accessible.

Appl. No. G-970

LEGAL OWNER OR OPERATOR: LOS ANGELES CITY SCHOOL DISTRICTS
JEFFERSON HIGH SCHOOL

EQUIPMENT LOCATED AT: 1319 EAST 41ST STREET
LOS ANGELES, CALIFORNIA 90011

EQUIPMENT DESCRIPTION AND CONDITIONS: BOILER NUMBER 2, WEIL-MCLAIN CAST-IRON SECTIONAL TYPE, SIZE HR 44-16, SERIES 2, WITH A METTLER COMBINATION GAS OR OIL BURNER.

SUBJECT TO THE FOLLOWING CONDITION

FUEL OIL SUPPLIED AT THE BURNER MUST BE PS-200 OR LIGHTER GRADE.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR ADDRESS, OR ANY ALTERATION

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 20, Chapter 2, Article 3, of the Health and Safety Code of the State of California or the Rules and Regulations of the Air Pollution Control District. This permit cannot be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies.

GOVERNMENT APPLICATION - NO FEE

VOID UNLESS VALIDATED

AIR POLLUTION CONTROL OFFICER

BY Beth Malin

Beth Malin, Permit Processing

DATE January 18, 1965

The URL you requested has changed. You have been redirected to the new URL. Please update your bookmarks.

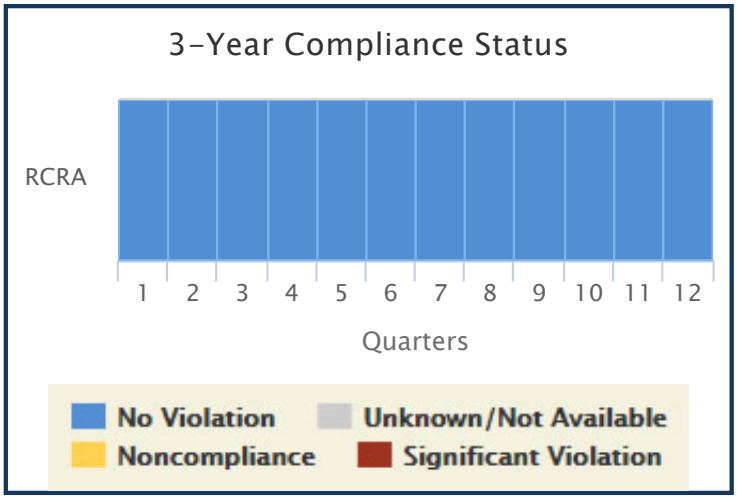
Detailed Facility Report

Facility Summary

LOS ANGELES USD JEFFERSON HIGH SCHOOL

1319 E 41ST ST, LOS ANGELES, CA 90011

FRS (Facility Registry Service) ID: 110002779093
EPA Region: 09
Latitude: 34.0109
Longitude: -118.25053
Locational Data Source: FRS
Industry: No description found
Indian Country: N



Enforcement and Compliance Summary

Statute	Insp (5 Years)	Date of Last Inspection	Current Compliance Status	Qtrs in NC (Non-Compliance) (of 12)	Qtrs in Significant Violation	Informal Enforcement Actions (5 years)	Formal Enforcement Actions (5 years)	Penalties from Formal Enforcement Actions (5 years)	EPA Cases (5 years)	Penalties from EPA Cases (5 years)
RCRA	--	--	No Violation	0	0	--	--	--	--	--

Regulatory Information

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information
Resource Conservation and Recovery Act (RCRA): Active (H) SQG (CAD982022485)
Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information
Greenhouse Gas Emissions (eGGRT): No Information
Toxic Releases (TRI): No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110002779093					N	34.0109	-118.25053
RCR	RCRA	CAD982022485	SQG	Active (H)			N	34.009177	-118.251475

Facility Address

System	Statute	Identifier	Facility Name	Facility Address
FRS		110002779093	LOS ANGELES USD JEFFERSON HIGH SCHOOL	1319 E 41ST ST, LOS ANGELES, CA 90011
RCR	RCRA	CAD982022485	LOS ANGELES USD JEFFERSON HIGH SCHOOL	1319 E 41ST ST, LOS ANGELES, CA 90011

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Desc
No data records returned			

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
No data records returned			

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
No data records returned						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Non-compliance)/HPV (High Priority Violation)	Description	Current As Of	Qtrs in NC (Non-Compliance) (of 12)
RCRA	CAD982022485	No		05/21/2016	0

Three Year Compliance Status by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12
RCRA (Source ID: CAD982022485)		07/01-09/30 2013	10/01-12/31 2013	01/01-03/31 2014	04/01-06/30 2014	07/01-09/30 2014	10/01-12/31 2014	01/01-03/31 2015	04/01-06/30 2015	07/01-09/30 2015	10/01-12/31 2015	01/01-03/31 2016	04/01-06/30 2016
RCRA	Facility-Level Status												

Informal Enforcement Actions (5 Years)

Statute	Source ID	Type of Action	Lead Agency	Date
No data records returned				

Formal Enforcement Actions (5 Years)

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description
No data records returned						

ICIS (Integrated Compliance Information System) Case History (5 years)

Primary Law/Section	Case No.	Case Type	Lead Agency	Case Name	Issued/Filed Date	Settlement Date	Federal Penalty	State/Local Penalty	SEP (Supplemental Environmental Project) Cost	Comp Action Cost
No data records returned										

Environmental Conditions

Water Quality

Permit ID	Combined Sewer System?	Number of CSO (Combined Sewer Overflow) Outfalls	Watershed (HUC (Hydrologic Unit Code) 8)	Watershed Name (HUC (Hydrologic Unit Code) 8)	Watershed (HUC (Hydrologic Unit Code) 12)	Watershed Name (HUC (Hydrologic Unit Code) 12)	Receiving Waters	Impaired Waters	Impaired Class	Causes of Impairment(s) by Group(s)	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
No data records returned											

Waterbody Designated Uses

Reach Code	Waterbody Name	Exceptional Use	Recreational Use	Aquatic Life Use	Shellfish Use	Beach Closure Within Last Year	Beach Closure Within Last Two Years
No data records returned							

Air Quality

Non-Attainment Area?	Pollutant(s)
Yes	Ozone
Yes	Lead
Yes	Particulate Matter
No	Sulfur Dioxide

Pollutants

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Releases
No data records returned								

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name
No data records returned

Demographic Profile

Demographic Profile of Surrounding Area (3 Miles)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 US Census and American Community Survey data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA Locational Reference Table (LRT) when available.

Radius of Area:	3	Land Area:	99%	Households in Area:	108,245
Center latitude:	34.0109	Water Area:	1%	Housing Units in Area:	118,009
Center Longitude:	-118.25053	Population Density:	14,155/sq.mi.	Households on Public Assistance:	9,193
Total Persons:	396,952	Percent Minority:	94%	Persons Below Poverty Level:	262,706

Race Breakdown	Persons (%)	Age Breakdown	Persons (%)
White:	143,554 (36.16%)	Child 5 years and younger:	33,413 (8.42%)
African-American:	47,365 (11.93%)	Minors 17 years and younger:	114,211 (28.77%)
Hispanic-Origin:	305,561 (76.98%)	Adults 18 years and older:	282,742 (71.23%)
Asian/Pacific Islander:	19,884 (5.01%)	Seniors 65 years and older:	26,399 (6.65%)
American Indian:	4,210 (1.06%)		
Other/Multiracial:	181,939 (45.83%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown	Households (%)
Less than 9th Grade:	74,436 (35.86%)	Less than $15,000:	29,044 (28.27%)
9th through 12th Grade:	41,084 (19.8%)	$15,000 - $25,000:	18,579 (18.09%)
High School Diploma:	44,397 (21.39%)	$25,000 - $50,000:	28,264 (27.51%)
Some College/2-yr:	30,031 (14.47%)	$50,000 - $75,000:	14,207 (13.83%)
B.S./B.A. or More:	17,597 (8.48%)	Greater than $75,000:	12,634 (12.3%)

CA.GOV

Department of Conservation

Lat: 34.00274, Long: -118.27358

Division of Oil, Gas & Geothermal Resources Well Finder

Find By Location

Find My Current Location

or

Street: 1319 41st Street

City:

Zip: 90011 Find

Display a 1500 foot buffer

Buffer radius is limited to 10 mi (52800ft).

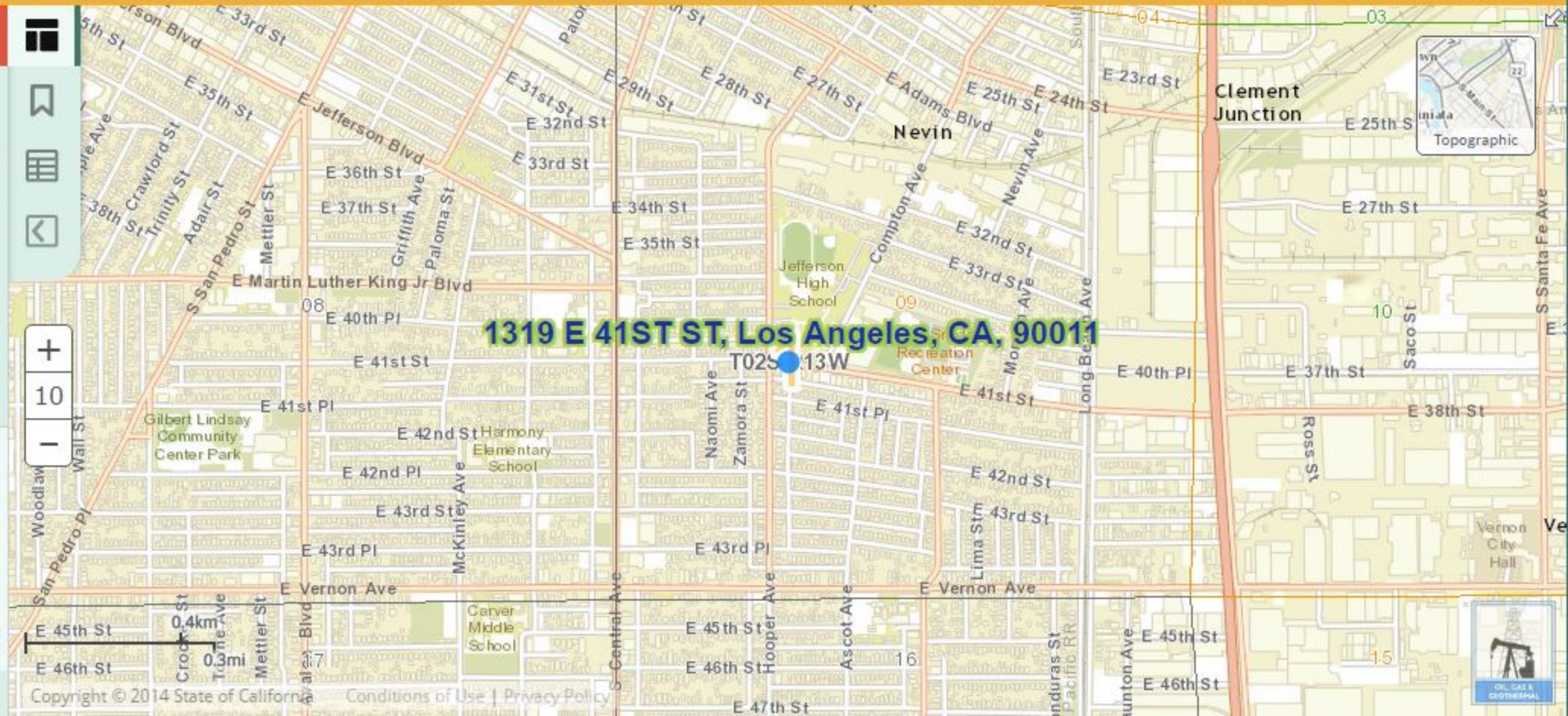
Find By API

Find By Lat, Long

Find By PLSS

Find By Oil/Gas Field

Data (Layers):



LAUSD/ JEFFERSON HIGH SCHOOL
1319 E 41ST ST
LOS ANGELES, CA 90011

Inquiry Number:
May 26, 2016

EDR Site Report™

Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary . . . . . Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports . . . . . Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. . . . . Page 17

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **LAUSD/ JEFFERSON HIGH SCHOOL** 1319 E 41ST ST LOS ANGELES, CA 90011 EDR ID #S113012598
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	**YES - p4**
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in other database records

DATABASE: Other Database Records (OTHER)

LAUSD/ JEFFERSON HIGH SCHOOL
1319 E 41ST ST
LOS ANGELES, CA 90011
EDR ID #S113012598

HAZNET:

envid:	S113012598
Year:	2013
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported

envid:	S113012598
Year:	2013
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.35
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported

envid:	S113012598
Year:	2013
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.532
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported

envid:	S113012598
Year:	2013
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles

TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Not reported
Tons: 0.025
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Not reported

envid: S113012598
Year: 2011
GEPAID: CAD982022485
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE FL 27
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 4
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012598
Year: 2011
GEPAID: CAD982022485
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE FL 27
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 4
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012598
Year: 2010
GEPAID: CAD982022485
Contact: SOE AUNG
Telephone: 2137455939
Mailing Name: Not reported
Mailing Address: 333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 3.8
Cat Decode: Waste oil and mixed oil
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: S113012598
Year: 2010
GEPAID: CAD982022485
Contact: SOE AUNG
Telephone: 2137455939
Mailing Name: Not reported
Mailing Address: 333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: AZR000501510
TSD County: Not reported
Waste Category: Latex waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.86
Cat Decode: Latex waste

Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113012598
Year:	2010
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Laboratory waste chemicals
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.1
Cat Decode:	Laboratory waste chemicals
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles

envid:	S113012598
Year:	2009
GEPAID:	CAD982022485
Contact:	SOE AUNG / ECM
Telephone:	2132413199
Mailing Name:	Not reported
Mailing Address:	333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip:	Los Angeles, CA 900170000
Gen County:	Not reported
TSD EPA ID:	CAD009007626
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	48
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	S113012598
Year:	2009
GEPAID:	CAD982022485
Contact:	SOE AUNG / ECM
Telephone:	2132413199
Mailing Name:	Not reported
Mailing Address:	333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip:	Los Angeles, CA 900170000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Cat Decode:	Other inorganic solid waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113012598
Year:	2009
GEPAID:	CAD982022485
Contact:	SOE AUNG / ECM
Telephone:	2132413199
Mailing Name:	Not reported
Mailing Address:	333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip:	Los Angeles, CA 900170000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.418
Cat Decode:	Waste oil and mixed oil
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles

envid:	S113012598
Year:	2009
GEPAID:	CAD982022485
Contact:	SOE AUNG / ECM
Telephone:	2132413199

Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.834
Cat Decode: Unspecified oil-containing waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113012598
Year: 2009
GEPAID: CAD982022485
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 297.36
Cat Decode: Contaminated soil from site clean-up
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012598
Year: 2008
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 45.2
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012598
Year: 2008
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 140
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012598
Year: 2007
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT000646117

TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 561.3
Cat Decode: Other inorganic solid waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012598
Year: 2007
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 63.72
Cat Decode: Contaminated soil from site clean-up
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113012598
Year: 2007
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.45
Cat Decode: Waste oil and mixed oil
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Los Angeles

envid: S113012598
Year: 2007
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.14
Cat Decode: Unspecified aqueous solution
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113012598
Year: 2006
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 0.84
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012598
Year: 2006
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 1.68
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012598
Year: 2005
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Tons: 1.25
Cat Decode: Waste oil and mixed oil
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 2004
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Tons: 0.13
Cat Decode: Other inorganic solid waste
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012598
Year: 2004
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Transfer Station
Tons: 0.81
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012598
Year: 2004
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste

Disposal Method: Transfer Station
Tons: 0.18
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012598
Year: 2003
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD088504881
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Tons: 0.12
Cat Decode: Other inorganic solid waste
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113012598
Year: 2003
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 16.85
Cat Decode: Asbestos containing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012598
Year: 2003
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 34.55
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012598
Year: 2002
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Treatment, Tank
Tons: 0.12
Cat Decode: Waste oil and mixed oil
Method Decode: Treatment, Tank
Facility County: Los Angeles

envid: S113012598
Year: 2001
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl

Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: WAD991281767
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Treatment, Incineration
Tons: 0.03
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Treatment, Incineration
Facility County: Los Angeles

envid: S113012598
Year: 2001
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD008364432
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Recycler
Tons: 2.32
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 2001
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Tons: 4.37
Cat Decode: Unspecified oil-containing waste
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 2001
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD008364432
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Treatment, Incineration
Tons: 0.01
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Treatment, Incineration
Facility County: Los Angeles

envid: S113012598
Year: 2000
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Tons: 0.11
Cat Decode: Other organic solids
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012598
Year: 2000

GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: AZR000005454
TSD County: Not reported
Waste Category: Polychlorinated biphenyls and material containing PCBs
Disposal Method: Recycler
Tons: 1.37
Cat Decode: Polychlorinated biphenyls and material containing PCBs
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 2000
GEPAID: CAD982022485
Contact: YI HWA KIM DEPUTY DIRECTOR
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 333 S Beaudry Ave 20th Fl
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 0.16
Cat Decode: Asbestos containing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012598
Year: 1999
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: AZC950823111
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 58.9960
Cat Decode: Asbestos containing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012598
Year: 1999
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD009007626
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: .8428
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012598
Year: 1999
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Tons: .0500
Cat Decode: Other organic solids

Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012598
Year: 1998
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD108040858
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: .2084
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 1997
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD108040858
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: .0625
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 1996
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD108040858
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: .0625
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 1995
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD108040858
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: .1875
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 1994
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD108040858

TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Tons: .1250
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012598
Year: 1994
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD067786749
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 2.5284
Cat Decode: Asbestos containing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012598
Year: 1994
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD108010858
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Tons: .0417
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012598
Year: 1994
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD067786749
TSD County: Not reported
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 5.0568
Cat Decode: Asbestos containing waste
Method Decode: Disposal, Land Fill
Facility County: Los Angeles

envid: S113012598
Year: 1994
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086
Mailing Name: Not reported
Mailing Address: 1449 S SAN PEDRO ST
Mailing City,St,Zip: LOS ANGELES, CA 900153119
Gen County: Not reported
TSD EPA ID: CAD108040858
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: .3542
Cat Decode: Photochemicals/photoprocessing waste
Method Decode: Recycler
Facility County: Los Angeles

envid: S113012598
Year: 1993
GEPAID: CAD982022485
Contact: LOS ANGELES USD
Telephone: 2137435086

Mailing Name:	Not reported
Mailing Address:	1449 S SAN PEDRO ST
Mailing City,St,Zip:	LOS ANGELES, CA 900153119
Gen County:	Not reported
TSD EPA ID:	CAD108040858
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Tons:	0.1875
Cat Decode:	Photochemicals/photoprocessing waste
Method Decode:	Recycler
Facility County:	Los Angeles

envid:	S113012598
Year:	1993
GEPAID:	CAD982022485
Contact:	LOS ANGELES USD
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	1449 S SAN PEDRO ST
Mailing City,St,Zip:	LOS ANGELES, CA 900153119
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	0.3836
Cat Decode:	Waste oil and mixed oil
Method Decode:	Recycler
Facility County:	Los Angeles

envid:	S113012598
Year:	1993
GEPAID:	CAD982022485
Contact:	LOS ANGELES USD
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	1449 S SAN PEDRO ST
Mailing City,St,Zip:	LOS ANGELES, CA 900153119
Gen County:	Not reported
TSD EPA ID:	CAD990794133
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	26.9696
Cat Decode:	Asbestos containing waste
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113012598
Year:	1993
GEPAID:	CAD982022485
Contact:	LOS ANGELES USD
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	1449 S SAN PEDRO ST
Mailing City,St,Zip:	LOS ANGELES, CA 900153119
Gen County:	Not reported
TSD EPA ID:	CAD067786748
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	0.84279999999
Cat Decode:	Asbestos containing waste
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113012598
Year:	1993
GEPAID:	CAD982022485
Contact:	LOS ANGELES USD
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	1449 S SAN PEDRO ST
Mailing City,St,Zip:	LOS ANGELES, CA 900153119
Gen County:	Not reported
TSD EPA ID:	CAD108040858
TSD County:	Not reported
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Not reported
Tons:	0.0625
Cat Decode:	Photochemicals/photoprocessing waste
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113012598
Year:	1993
GEPAID:	CAD982022485
Contact:	LOS ANGELES USD
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	1449 S SAN PEDRO ST
Mailing City,St,Zip:	LOS ANGELES, CA 900153119
Gen County:	Not reported
TSD EPA ID:	CAD067786749
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Disposal, Land Fill
Tons:	0
Cat Decode:	Not reported
Method Decode:	Disposal, Land Fill
Facility County:	Los Angeles

envid:	S113012598
Year:	1993
GEPAID:	CAD982022485
Contact:	LOS ANGELES USD
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	1449 S SAN PEDRO ST
Mailing City,St,Zip:	LOS ANGELES, CA 900153119
Gen County:	Not reported
TSD EPA ID:	CAD067786749
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	0.84279999999
Cat Decode:	Asbestos containing waste
Method Decode:	Not reported
Facility County:	Los Angeles

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

CA HAZNET: Facility and Manifest Data
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Database Release Frequency: Annually
Date of Last EDR Contact: 04/15/2016
Date of Next Scheduled Update: 07/25/2016

Historical Preservation Overlay Zone
1319 E 41ST ST

This property is not located within a City Historic Preservation Overlay Zone. However, it does have other designations and survey information. Click the tab "Other Historic Designations" to view this information.

Other Historical Designation
1319 E 41ST ST

The designation and survey information displayed currently includes properties with California Historical Resource Status Codes 1 and 2. Information with properties with Status Codes 3 through 7 will be added in the future. Please refer to California Historical Resource Status Codes for a definition of the codes.

OTHER HISTORIC SURVEY INFORMATION

(compiled from California Office of Historic Preservation Historical Resources Inventory)

Thomas Jefferson High School

Not Available

146101

Status Code	Program Ref No.	Evaluation Date
2S2	FEMA031024A	03/16/2004

OTHER HISTORIC SURVEY INFORMATION

(compiled from California Office of Historic Preservation Historical Resources Inventory)

Thomas Jefferson High School

1319 E 38th St

146101

Status Code	Program Ref No.	Evaluation Date
2S2	DOE-19-04-0019-0000	03/16/2004

Mills Act
1319 E 41ST ST

This property does not have a Mills Act Contract.

Historical Preservation Overlay Zone
1319 E 41ST ST

This property is not located within a City Historic Preservation Overlay Zone. However, it does have other designations and survey information. Click the tab "Other Historic Designations" to view this information.

Other Historical Designation
1319 E 41ST ST

The designation and survey information displayed currently includes properties with California Historical Resource Status Codes 1 and 2. Information with properties with Status Codes 3 through 7 will be added in the future. Please refer to California Historical Resource Status Codes for a definition of the codes.

OTHER HISTORIC SURVEY INFORMATION

(compiled from California Office of Historic Preservation Historical Resources Inventory)

Thomas Jefferson High School

Not Available

146101

Status Code	Program Ref No.	Evaluation Date
2S2	FEMA031024A	03/16/2004

OTHER HISTORIC SURVEY INFORMATION

(compiled from California Office of Historic Preservation Historical Resources Inventory)

Thomas Jefferson High School

1319 E 38th St

146101

Status Code	Program Ref No.	Evaluation Date
2S2	DOE-19-04-0019-0000	03/16/2004

Mills Act
1319 E 41ST ST

This property does not have a Mills Act Contract.

Bldg. Form 3

3

USE INK OR INDELIBLE PENCIL

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot ✕	Lot ✓
JEFFERSON HIGH	SCHOOL
Tract	Tract

Present location of building } 1319 E. 41st Street. (House Number and Street)

New location of building } (House Number and Street)

Between what cross streets } Compton Ave and Hooper Ave.

Approved by City Engineer. _____ Deputy.

1. Purpose of PRESENT building Public School Shops Families — Rooms 10 (Store, Residence, Apartment House, Hotel, or any other purpose)
2. Use of building AFTER alteration or moving Same Families — Rooms 20
3. Owner (Print Name) Los Angeles City High School District Phone PR. 1121.
4. Owner's Address 7th Floor - Ex Building Sta. 166
5. Certificated Architect Stiles O. Clements State License No. 813 Phone
6. Licensed Engineer Edwin F. Rudolph State License No. 777 Phone
7. Contractor None State License No. Phone
8. Contractor's Address
9. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $ 50,000.00
10. State how many buildings NOW on lot and give use of each. } 10 Schools. (Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building 100' x 200' Number of stories high 2 Height to highest point 37'
12. Class of building "B" Material of existing walls Brick Exterior framework Brick (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Construct 8 room 1 story class "B" addition to present building.

Fill in Application on other Side and Sign Statement (OVER)

FOR DEPARTMENT USE ONLY

PERMIT NO.	Plans and Specifications checked	Zone	Fire District	Fee 123.00
1330	W. F. Norman	B	No.	Stamp here when Permit is issued
	Corrections verified W. F. Norman	Bldg. Line Ft.	Street Widening Ft.	JAN 14 '38
	Plans, Specifications and Applications rechecked and approved W. F. Norman	Application checked and approved 1/14/38	Clerk	
PLANS 1/24/5	For Plans See	Filed with	SPRINKLER Required Valuation Included / Specified Yes No	Inspector W. B. Hecht

202

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition 59'-8" x 110' Size of Lot Future Stock Number of Stories when complete 1

Material of Foundation Concrete Width of Footing 2'-0" Depth of footing below ground 4' (Min)

Width Foundation Wall 12" Size of Redwood Sill — x — Material Exterior Walls Conc.

Size of Exterior Studs 10" Conc. Walls Size of Interior Bearing Studs 10" Conc. Walls

Joists: First Floor Slab Second Floor None Rafters 2" x 12" Roofing Material Composition

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here .....
(Owner or Authorized Agent)

By Tinkell

FOR DEPARTMENT USE ONLY

Application None	Fire District	Bldg. Line	Termite Inspection
Construction	Zoning	Street Widening	Forced Draft Ventil.

(1)
REINFORCED CONCRETE

Barrels of Cement 725

Tons of Reinforcing Steel 30

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

..... Street

Sign Here .....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here .....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here .....
(Owner or Authorized Agent)

REMARKS:

PLAN CHECKING

RECEIPT No. 17923

VALUATION $ 50000 00

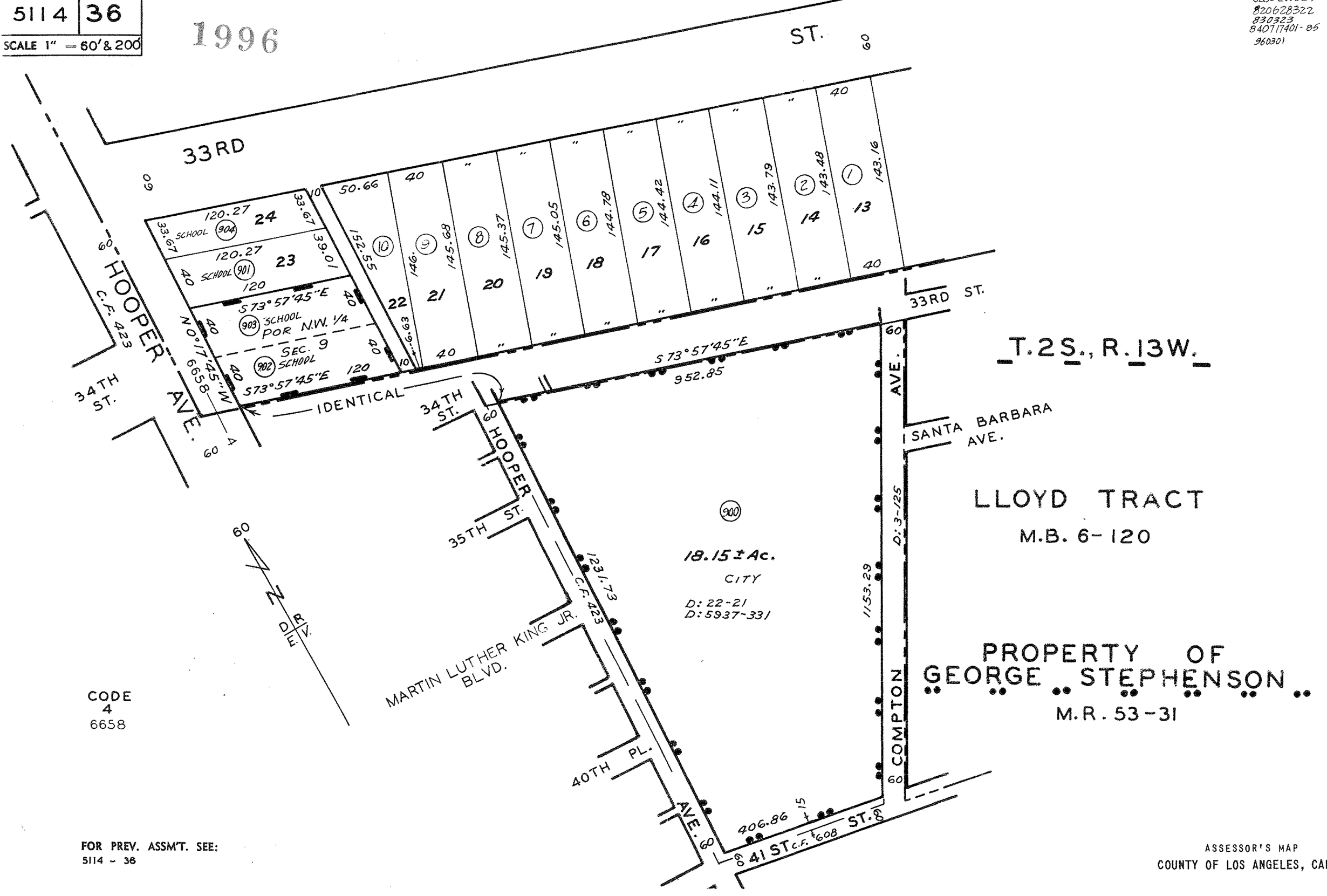
FEE PAID $ 60 00

5114 | 36

SCALE 1" = 60' & 200'

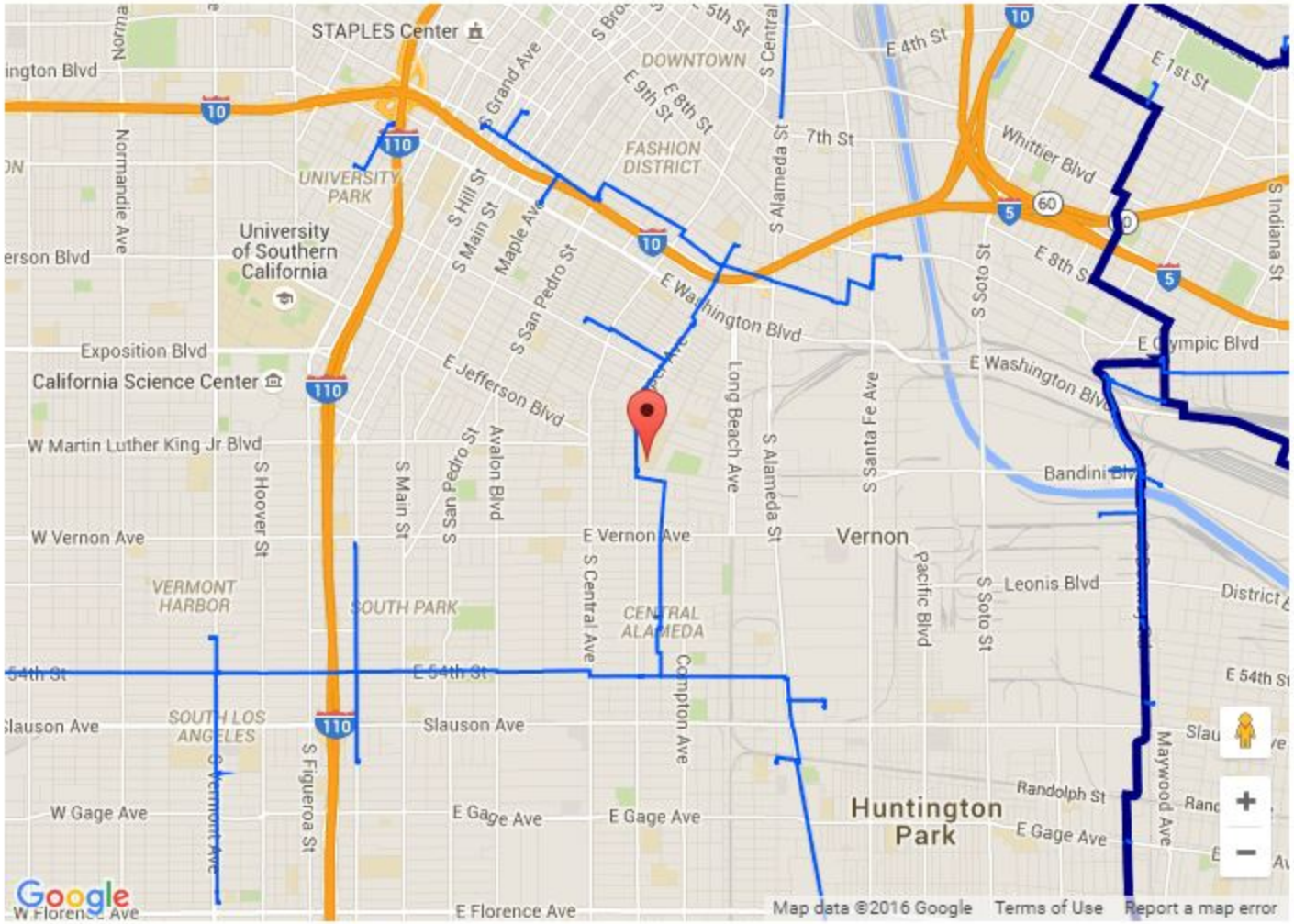
1996

820628322
830323
840717401-86
960301



Gas Transmission and High Pressure Distribution Pipeline Interactive Map - LA

1319 east 41st Street 90011 Find Address Enter your zip code or address.

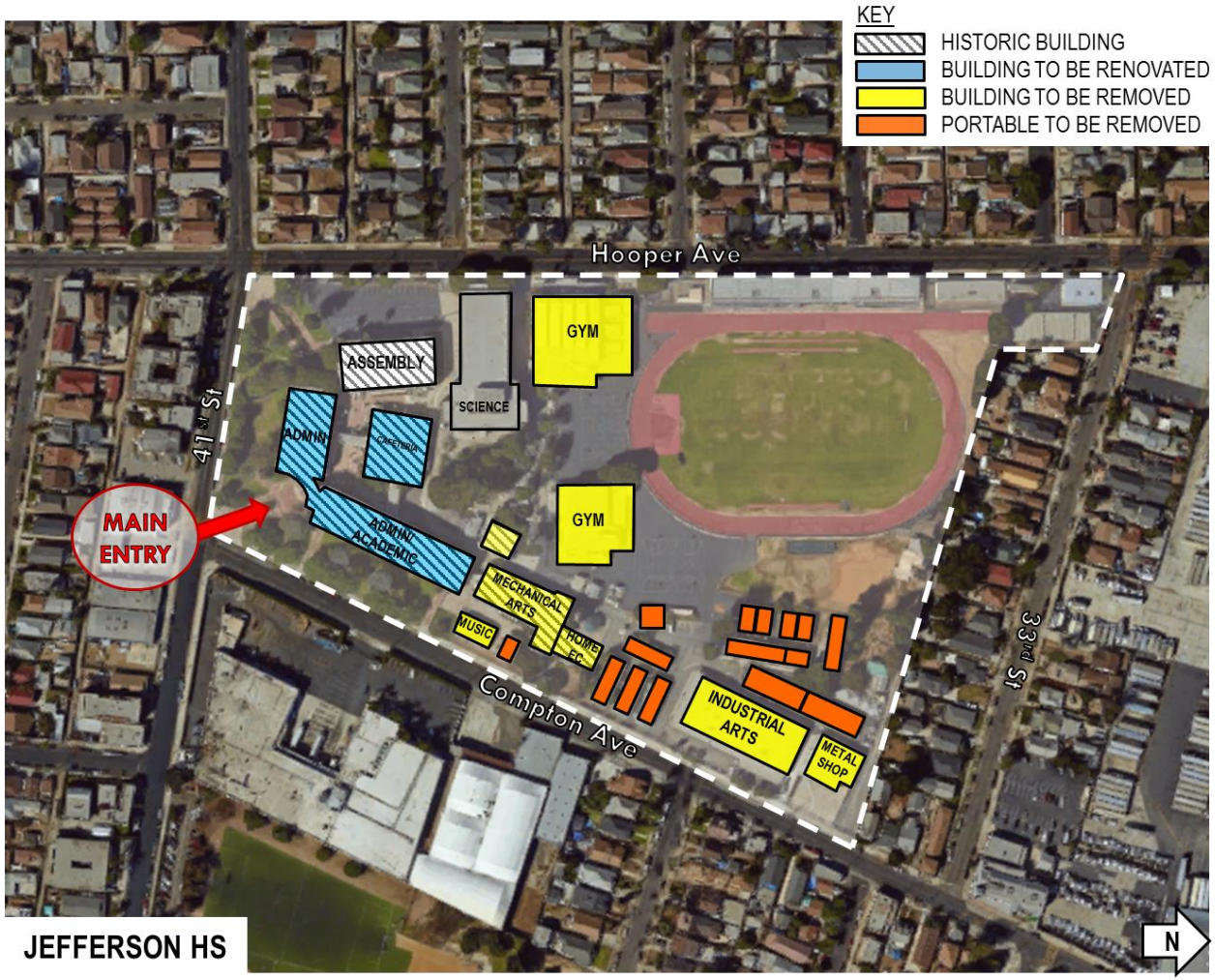


Dark Blue Transmission Lines: Generally large diameter pipelines that operate at pressures above 200 psi and transport gas from supply points to the

Los Angeles
Long Beach
ORANGE

Jefferson High School

What we recommend



Proposed Scope of Work

- **Major Building Upgrades**
  - Administration/Library Building
  - Classroom Building
  - Cafeteria
- **New Building(s) to be Constructed**
  - Classrooms
  - Gymnasium
- **Site Work**
  - Baseball/Softball Field
  - Parking
  - Hard Courts
  - Site Infrastructure

Anticipated improvements valued at more than <u>$100 Million</u>!

Appendix A
Environmental School Site Selection Screening Criteria Checklist

Health and Safety Criteria	Yes	No	Comments
High-Voltage Power Transmission Lines *[CCR, Title 5, 14010, CDE Selection and Approval Guide, 2000]*			
Is the property within 100 feet from the edge of an easement for a 50 – 133 kv line?		✓	LADPW, 2016
Is the property within 150 feet from the edge of an easement for a 220 – 230 kv line?		✓	LADPW, 2016
Is the property within 350 feet from the edge of an easement for a 500 – 550 kv line?		✓	LADPW, 2016
Railroads *[CCR, Title 5, 14010, CDE Selection and Approval Guide, 2000]*			
Is the site within 1,500 feet of a railroad track easement? (If yes, is the track a main line or a spur?)		✓	Thomas Bros., 2006
Hazardous Disposal Sites *[Edu. Code 17213(a)(1)-(3); Health and Safety Code 25220, CDE Selection and Approval Guide, 2000]*			
Is the site a current or former hazardous or solid waste disposal site? (If yes, have all wastes been removed?)		✓	No visual observed during Site reconnaissance. None reported in the environmental database search.
Does the site contain one or more aboveground or underground pipelines that carry hazardous substances, materials, or waste? (Natural gas supply to school or neighborhood excluded.)		✓	Office of the State Fire Marshal did not identify pipelines on or adjacent to the subject property
Is the site located near or downwind from a stockyard, fertilizer plant, soil processing operation, auto dismantling facility, sewage treatment plant, or potentially hazardous facilities?		✓	No visual observed during Site reconnaissance. None reported in the environmental database search.(2016)
Has the site been designated a border zone property by DTSC, or is the site within 2,000 feet of a significant disposal of hazardous waste?		✓	LADP, 2016 and EDR, 2016
Gasoline or Sewer Pipelines *[Edu. Code 17213(a)(3)]*			
Are there any pipelines located above- or underground on or near to the site that are used for hazardous substances, fuel, or natural gas? (Natural gas supply to school or neighborhoods excluded.)		✓	Office of the State Fire Marshal did not identify pipelines on or adjacent to the subject property.
Airports *[Edu. Code 17215 (a)-(c); CCR, Title 5, 14011(k)]*			
Is the site located within two miles of an operating airport?		✓	Hawthorne Municipal Airport is located over 5 miles west (Google Earth 2016)
High-pressure Water Pipelines, Reservoirs, Water Storage Tanks *[CDE Selection and Approval Guide, 2000]*			
Is the potential site located within 1,500 feet of the easement of an aboveground or underground water pipeline, reservoir, or water storage tank?		✓	No water pipeline easements, reservoirs or water storage tanks are reported within 1,500 feet (LADWP, 2016).
Major Roadways *[CCR, Title 5, 14010(e), CDE Selection and Approval Guide, 2000]*			
Is the potential site located near a highway, freeway, or other major roadway? (If yes, how far?)		✓	Long Beach Boulevard is located over 2,000 feet to the east.
Geological Special Studies Zone *[Edu. Code 17212, 17212.5; Gov. Code 65302; CCR, Title 5, 14010(e), CDE Selection and Approval Guide, 2000]*			

Is the proposed school site located within an Alquist-Priolo or other special studies zone?		✓	Per Department of Conservation, California Geological Survey (2007) the Site is not located within a liquefaction zone; or Alquist-Priolo or landslide zone (LADP, 2016).
Flood and Inundation *[Edu. Code 17212, 17212.5; CCR, Title 5, 14010]*			
Is the proposed school site located within an area of flood or dam flood inundation?		✓	Los Angeles City Planning Department (2016) and EDR (2016) identifies that neither Lot is in a flood plain (100-year or 500-year).
Border Zone Property *[CCR, Title 5, 14010(t)]*			
Is the proposed school site located within 2,000 feet of a significant disposal of hazardous waste?		✓	LADP, 2016 and EDR, 2016

APPENDIX C: REGULATORY DATABASE REPORT

PARTNER

Jefferson High School
1319 E 41st St, APNs 5114-036-900,-01,-02,-03,-04
Los Angeles, CA 90011

Inquiry Number: 4604037.2s
April 28, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	8
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Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-9
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1319 E 41ST ST, APNS 5114-036-900,-01,-02,-03,-04
LOS ANGELES, CA 90011

COORDINATES

Latitude (North):	34.0095620 - 34˚ 0' 34.42''
Longitude (West):	118.2512270 - 118˚ 15' 4.41''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	384458.8
UTM Y (Meters):	3763727.5
Elevation:	205 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630741 HOLLYWOOD, CA
Version Date:	2012
Northeast Map:	5630795 LOS ANGELES, CA
Version Date:	2012
Southeast Map:	5633765 SOUTH GATE, CA
Version Date:	2012
Southwest Map:	5640440 INGLEWOOD, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120505
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1319 E 41ST ST, APNS 5114-036-900,-01,-02,-03,-04
LOS ANGELES, CA 90011

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LOS ANGELES USD JEFF	1319 E 41ST ST	RCRA-SQG, FINDS, ECHO		TP
A2		JEFFERSON HIGH SCHOO	CHMIRS		TP
A3	LAUSD/ JEFFERSON HIG	1319 E 41ST ST	HAZNET		TP
B4	RUTLEDGE O C	1302 E 41ST ST	EDR Hist Auto	Lower	235, 0.045, SW
5	LYBROOK D L	3810 HOOPER AVE	EDR Hist Auto	Higher	271, 0.051, WNW
6	SUHRIE G N	1350 E 41ST ST	EDR Hist Auto	Higher	278, 0.053, SE
B7	BIANCO THOS	4025 H HOOVER	EDR Hist Auto	Lower	299, 0.057, WSW
8	LYBROOK D L	4110 HOOPER AVE	EDR Hist Auto	Lower	375, 0.071, SW
9	WEST COAST FOODS	1377 E 41ST ST	SWEEPS UST, CA FID UST	Higher	431, 0.082, ESE
10	MC COLLINS MURPHY	4115 ASCOT AVE	EDR Hist Cleaner	Higher	623, 0.118, SE
C11	WEST COAST FOODS	4024 S COMPTON AVE	SWEEPS UST, CA FID UST	Higher	629, 0.119, NE
C12	REMOVAL INC	4046 COMPTON BLVD	RCRA NonGen / NLR, FINDS, ECHO	Higher	652, 0.123, NE
C13	WEST COAST POULTRY C	4010 S COMPTON AVE	SWEEPS UST, CA FID UST	Higher	747, 0.141, NE
14	FORMER RESIDENCE TO	1421 E 41ST PL	RCRA-LQG	Lower	921, 0.174, SE
15	DAYLIGHT TRANSPORT	1359 E 33RD ST	SWEEPS UST, CA FID UST	Higher	1246, 0.236, North
16	NEVIN AVENUE ELEMENT	1517 EAST 32ND STREE	ENVIROSTOR, SCH	Higher	1520, 0.288, NE
17	JEFFERSON CONTINUATI	33RD STREET/HOOPER A	ENVIROSTOR, SCH	Higher	1525, 0.289, North
D18	RENU PLATING CO INC	1531 E 32ND ST	SEMS-ARCHIVE, RCRA-LQG	Higher	1580, 0.299, NE
D19	FORMER RENU PLATING	1531 EAST 32ND STREE	ENVIROSTOR, VCP, DEED, HAZNET	Higher	1586, 0.300, NE
D20	RENU PLATING COMPANY	1531 EAST 32ND STREE	HIST Cal-Sites	Higher	1586, 0.300, NE
D21	RENU PLATING COMPANY	1531 32ND	LIENS, HIST CORTESE, LA Co. Site Mitigation	Higher	1586, 0.300, NE
22	WE RECYCLING	4107 S CENTRAL AVE	SWRCY	Lower	1628, 0.308, West
23	LA CITY FIRE STATION	3401 CENTRAL AVE S	LUST	Higher	1990, 0.377, NW
24	PACIFIC PIONEER PLAS	1642 E 41ST	SEMS-ARCHIVE	Higher	2073, 0.393, ESE
25	CONTINENTAL ICE CREA	3325 CENTRAL AVE S	LUST, HIST CORTESE	Higher	2148, 0.407, NW
E26	DRIZ KNITTING MILL I	3000 S CENTRAL AVE	LUST, SWEEPS UST, CA FID UST	Higher	2207, 0.418, NNW
E27	DRITZ KNITTING	3000 CENTRAL	SLIC	Higher	2207, 0.418, NNW
28	CENTRAL REGION MIDDL	SOUTH COMPTON AVENUE	ENVIROSTOR, SCH	Higher	2343, 0.444, NNE
29	SA RECYCLING	3248 LONG BEACH AVE	SWRCY, NPDES	Higher	2561, 0.485, East
30	PACIFIC ALLIED MANUF	2911 SOUTH CENTRAL A	ENVIROSTOR, LA Co. Site Mitigation	Higher	2691, 0.510, NW
31	SINGER CO LA PERIOD	1838 E SANTA BARBARA	HWP	Higher	2770, 0.525, East
32	CENTRAL REGION ELEME	EAST 45TH STREET AND	ENVIROSTOR, SCH	Lower	2875, 0.545, SSW
33	JEFFERSON NEW ELEMEN	MCKINLEY AVENUE/42ND	ENVIROSTOR, SCH	Lower	3018, 0.572, WSW
34	LOS ANGELES FOOD CEN	2652 LONG BEACH AVEN	ENVIROSTOR, VCP	Higher	3037, 0.575, ENE
F35	STUART F COOPER CO	1565 AND 1570 E 23RD	RCRA-SQG, ENVIROSTOR, EMI	Higher	3048, 0.577, NNE
F36	NEVIN AVENUE ELEMENT	1569 EAST 32ND AVENU	ENVIROSTOR, SCH	Higher	3048, 0.577, NNE
37	CRES #17 SITE 2 5640	33RD AVENUE TO THE N	ENVIROSTOR, SCH	Higher	3313, 0.627, WNW
38	C & M METALS INC	1709 E 24TH ST	ENVIROSTOR, PROC	Higher	3400, 0.644, NE
39	PIMA ALAMEDA PROPERT	4051 SOUTH ALAMEDA S	ENVIROSTOR, VCP	Higher	3549, 0.672, East

MAPPED SITES SUMMARY

Target Property Address:
1319 E 41ST ST, APNS 5114-036-900,-01,-02,-03,-04
LOS ANGELES, CA 90011

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	THE CROSSINGS AT 29T	2901-2907 GRIFFITH A	ENVIROSTOR	Higher	3851, 0.729, NW
41	SHELL OIL CO. - LOS	2015 LONG BEACH AVEN	ENVIROSTOR, SLIC, HAZNET, LA Co. Site Mitigation	Higher	4050, 0.767, NE
42	LA UNI SCH DIST, TWE	2807 STANFORD AV	ENVIROSTOR, SCH, EMI	Higher	4455, 0.844, NW
G43	LOS ANGELES MEDICAL		FUDS	Higher	4473, 0.847, NE
G44	LA MED DEPOT		ENVIROSTOR	Higher	4484, 0.849, NE
45	SHELMAC CORP	1440 E WALNUT ST	SEMS-ARCHIVE, RCRA-SQG, ENVIROSTOR, FINDS, LA Co....	Higher	4625, 0.876, NNE
46	SHAMROCK IRON & META	1949 S. ALAMEDA AVE.	ENVIROSTOR	Higher	4737, 0.897, NE
47	FORMER GAP PRODUCTS	1460 EAST WASHINGTON	ENVIROSTOR, VCP, DEED	Higher	4768, 0.903, NNE
H48	PALACE PLATING	710 E. 29TH STREET.	SEMS-ARCHIVE, RCRA-LQG, ENVIROSTOR, SWEEPS UST,...	Higher	4851, 0.919, NW
H49	PALACE PLATING	710 29TH	RESPONSE, ENVIROSTOR, Cortese, HIST CORTESE,...	Higher	4851, 0.919, NW
50	FISHKING PROCESSORS/	1640 COMPTON AVE	ENVIROSTOR, VCP	Higher	5096, 0.965, NNE
51	BIKE SHOP	5201 SOUTH COMPTON A	ENVIROSTOR	Lower	5149, 0.975, SSE
52	M-5 STEEL, INC.	2901-2921 SACO STREE	ENVIROSTOR	Higher	5186, 0.982, East
53	DEPENDABLE REFRIGERA	5201 SOUTH CENTRAL A	ENVIROSTOR	Lower	5249, 0.994, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LOS ANGELES USD JEFF 1319 E 41ST ST LOS ANGELES, CA 90011	RCRA-SQG EPA ID:: CAD982022485 FINDS Registry ID:: 110002779093 ECHO	CAD982022485
JEFFERSON HIGH SCHOO JEFFERSON HIGH SCHOO LOS ANGELES, CA	CHMIRS OES Incident Number: 4-6669	N/A
LAUSD/ JEFFERSON HIG 1319 E 41ST ST LOS ANGELES, CA 90011	HAZNET GEPAID: CAD982022485	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

EXECUTIVE SUMMARY

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

EXECUTIVE SUMMARY

ODI ..... Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register
AOCONCERN ..... San Gabriel Valley Areas of Concern
SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs
Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST ..... Hazardous Substance Storage Container Database

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program

EXECUTIVE SUMMARY

UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
LOS ANGELES CO. HMS	HMS: Street Number List
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
FUELS PROGRAM	EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 03/07/2016 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RENU PLATING CO INC	***1531 E 32ND ST***	***NE 1/4 - 1/2 (0.299 mi.)***	***D18***	***26***
PACIFIC PIONEER PLAS	1642 E 41ST	ESE 1/4 - 1/2 (0.393 mi.)	24	50

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FORMER RESIDENCE TO	1421 E 41ST PL	SE 1/8 - 1/4 (0.174 mi.)	14	18

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, and dated 02/01/2016 has revealed that there is 1 RESPONSE site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PALACE PLATING	***710 29TH***	***NW 1/2 - 1 (0.919 mi.)***	***H49***	***145***

Status: Active
Facility Id: 19340646

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 02/01/2016 has revealed that there are 26 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEVIN AVENUE ELEMENT Facility Id: 19340784 Status: Certified	***1517 EAST 32ND STREE***	***NE 1/4 - 1/2 (0.288 mi.)***	***16***	***20***
JEFFERSON CONTINUATI Facility Id: 19880053 Status: Inactive - Withdrawn	***33RD STREET/HOOPER A***	***N 1/4 - 1/2 (0.289 mi.)***	***17***	***24***
FORMER RENU PLATING Facility Id: 19340643 Status: Active	***1531 EAST 32ND STREE***	***NE 1/4 - 1/2 (0.300 mi.)***	***D19***	***29***
CENTRAL REGION MIDDL Facility Id: 60000086 Status: Certified	***SOUTH COMPTON AVENUE***	***NNE 1/4 - 1/2 (0.444 mi.)***	***28***	***56***
PACIFIC ALLIED MANUF Facility Id: 19340018 Status: No Further Action	***2911 SOUTH CENTRAL A***	***NW 1/2 - 1 (0.510 mi.)***	***30***	***69***
LOS ANGELES FOOD CEN Facility Id: 60001206 Status: Active	***2652 LONG BEACH AVEN***	***ENE 1/2 - 1 (0.575 mi.)***	***34***	***80***
STUART F COOPER CO Facility Id: 71002904 Status: Refer: Other Agency	***1565 AND 1570 E 23RD***	***NNE 1/2 - 1 (0.577 mi.)***	***F35***	***83***
NEVIN AVENUE ELEMENT Facility Id: 19820071 Status: Inactive - Action Required	***1569 EAST 32ND AVENU***	***NNE 1/2 - 1 (0.577 mi.)***	***F36***	***85***
CRES #17 SITE 2 5640 Facility Id: 60000078 Status: Certified	***33RD AVENUE TO THE N***	***WNW 1/2 - 1 (0.627 mi.)***	***37***	***89***
C & M METALS INC Facility Id: 60000315	***1709 E 24TH ST***	***NE 1/2 - 1 (0.644 mi.)***	***38***	***94***

Status: Inactive - Action Required				
PIMA ALAMEDA PROPERT Facility Id: 60002227 Status: Active	***4051 SOUTH ALAMEDA S***	***E 1/2 - 1 (0.672 mi.)***	***39***	***95***
THE CROSSINGS AT 29T Facility Id: 60001221 Status: No Further Action	2901-2907 GRIFFITH A	NW 1/2 - 1 (0.729 mi.)	40	98
SHELL OIL CO. - LOS Facility Id: 71002134 Status: Refer: Other Agency	***2015 LONG BEACH AVEN***	***NE 1/2 - 1 (0.767 mi.)***	***41***	***99***
LA UNI SCH DIST, TWE Facility Id: 19820125 Status: Active	***2807 STANFORD AV***	***NW 1/2 - 1 (0.844 mi.)***	***42***	***101***
LA MED DEPOT Facility Id: 80000307 Status: Inactive - Needs Evaluation		NE 1/2 - 1 (0.849 mi.)	G44	115
SHELMAC CORP Facility Id: 19340642 Status: Refer: Other Agency	***1440 E WALNUT ST***	***NNE 1/2 - 1 (0.876 mi.)***	***45***	***116***
SHAMROCK IRON & META Facility Id: 60001672 Status: No Further Action	1949 S. ALAMEDA AVE.	NE 1/2 - 1 (0.897 mi.)	46	120
FORMER GAP PRODUCTS Facility Id: 19340775 Status: Certified O&M - Land Use Restrictions Only	***1460 EAST WASHINGTON***	***NNE 1/2 - 1 (0.903 mi.)***	***47***	***121***
PALACE PLATING Facility Id: 71002166 Status: Inactive - Needs Evaluation	***710 E. 29TH STREET.***	***NW 1/2 - 1 (0.919 mi.)***	***H48***	***124***
PALACE PLATING Facility Id: 19340646 Status: Active	***710 29TH***	***NW 1/2 - 1 (0.919 mi.)***	***H49***	***145***
FISHKING PROCESSORS/ Facility Id: 19760016 Status: No Further Action	***1640 COMPTON AVE***	***NNE 1/2 - 1 (0.965 mi.)***	***50***	***152***
M-5 STEEL, INC. Facility Id: 19330374 Status: Refer: Other Agency	2901-2921 SACO STREE	E 1/2 - 1 (0.982 mi.)	52	155

Lower Elevation	Address	Direction / Distance	Map ID	Page
CENTRAL REGION ELEME Facility Id: 60000819 Status: Certified	***EAST 45TH STREET AND***	***SSW 1/2 - 1 (0.545 mi.)***	***32***	***70***
JEFFERSON NEW ELEMEN Facility Id: 19010029 Status: No Further Action	***MCKINLEY AVENUE/42ND***	***WSW 1/2 - 1 (0.572 mi.)***	***33***	***77***
BIKE SHOP Facility Id: 19550028 Status: Inactive - Action Required	5201 SOUTH COMPTON A	SSE 1/2 - 1 (0.975 mi.)	51	154
DEPENDABLE REFRIGERA	5201 SOUTH CENTRAL A	SSW 1/2 - 1 (0.994 mi.)	53	157

Facility Id: 19760023
Status: Inactive - Action Required

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 12/14/2015 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA CITY FIRE STATION Status: Completed - Case Closed Facility Id: 900110116 Status: Leak being confirmed Global Id: T0603793075 Global ID: T0603793075	3401 CENTRAL AVE S	NW 1/4 - 1/2 (0.377 mi.)	23	47
CONTINENTAL ICE CREA Status: Completed - Case Closed Facility Id: 900110098 Status: Pollution Characterization Global Id: T0603700498 Global ID: T0603700498	***3325 CENTRAL AVE S***	***NW 1/4 - 1/2 (0.407 mi.)***	***25***	***51***
DRIZ KNITTING MILL I Status: Completed - Case Closed Global Id: T0603746785	***3000 S CENTRAL AVE***	***NNW 1/4 - 1/2 (0.418 mi.)***	***E26***	***53***

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 12/14/2015 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DRITZ KNITTING Facility Status: Completed - Case Closed Facility Status: No further action required Global Id: SL204621634	3000 CENTRAL	NNW 1/4 - 1/2 (0.418 mi.)	E27	55

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 02/01/2016 has revealed that there is 1 VCP

site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER RENU PLATING Status: Active Facility Id: 19340643	***1531 EAST 32ND STREE***	***NE 1/4 - 1/2 (0.300 mi.)***	***D19***	***29***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 12/14/2015 has revealed that there are 2 SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SA RECYCLING Cert Id: RC14549	***3248 LONG BEACH AVE***	***E 1/4 - 1/2 (0.485 mi.)***	***29***	***65***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WE RECYCLING Cert Id: RC190191.001	4107 S CENTRAL AVE	W 1/4 - 1/2 (0.308 mi.)	22	47

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RENU PLATING COMPANY	1531 EAST 32ND STREE	NE 1/4 - 1/2 (0.300 mi.)	D20	39

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are

4 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WEST COAST FOODS Comp Number: 7047	***1377 E 41ST ST***	***ESE 0 - 1/8 (0.082 mi.)***	***9***	***14***
WEST COAST FOODS Comp Number: 5522	***4024 S COMPTON AVE***	***NE 0 - 1/8 (0.119 mi.)***	***C11***	***15***
WEST COAST POULTRY C Comp Number: 6375	***4010 S COMPTON AVE***	***NE 1/8 - 1/4 (0.141 mi.)***	***C13***	***17***
DAYLIGHT TRANSPORT Comp Number: 5523	***1359 E 33RD ST***	***N 1/8 - 1/4 (0.236 mi.)***	***15***	***20***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 4 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WEST COAST FOODS Facility Id: 19056428 Status: A	***1377 E 41ST ST***	***ESE 0 - 1/8 (0.082 mi.)***	***9***	***14***
WEST COAST FOODS Facility Id: 19056068 Status: A	***4024 S COMPTON AVE***	***NE 0 - 1/8 (0.119 mi.)***	***C11***	***15***
WEST COAST POULTRY C Facility Id: 19016570 Status: I	***4010 S COMPTON AVE***	***NE 1/8 - 1/4 (0.141 mi.)***	***C13***	***17***
DAYLIGHT TRANSPORT Facility Id: 19009665 Status: I	***1359 E 33RD ST***	***N 1/8 - 1/4 (0.236 mi.)***	***15***	***20***

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 12/07/2015 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER RENU PLATING Status: ACTIVE Envirostor ID: 19340643	***1531 EAST 32ND STREE***	***NE 1/4 - 1/2 (0.300 mi.)***	***D19***	***29***

EXECUTIVE SUMMARY

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REMOVAL INC	***4046 COMPTON BLVD***	***NE 0 - 1/8 (0.123 mi.)***	***C12***	***15***

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOS ANGELES MEDICAL		NE 1/2 - 1 (0.847 mi.)	G43	114

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RENU PLATING COMPANY Reg Id: 19340643	***1531 32ND***	***NE 1/4 - 1/2 (0.300 mi.)***	***D21***	***45***
CONTINENTAL ICE CREA Reg Id: 900110098	***3325 CENTRAL AVE S***	***NW 1/4 - 1/2 (0.407 mi.)***	***25***	***51***

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 02/22/2016 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SINGER CO LA PERIOD EPA Id: CAD072300072 Cleanup Status: KNOWN GENERATORS	1838 E SANTA BARBARA	E 1/2 - 1 (0.525 mi.)	31	70

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 5 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LYBROOK D L	3810 HOOPER AVE	WNW 0 - 1/8 (0.051 mi.)	5	13
SUHRIE G N	1350 E 41ST ST	SE 0 - 1/8 (0.053 mi.)	6	13

Lower Elevation	Address	Direction / Distance	Map ID	Page
RUTLEDGE O C	1302 E 41ST ST	SW 0 - 1/8 (0.045 mi.)	B4	13
BIANCO THOS	4025 H HOOVER	WSW 0 - 1/8 (0.057 mi.)	B7	13
LYBROOK D L	4110 HOOPER AVE	SW 0 - 1/8 (0.071 mi.)	8	13

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

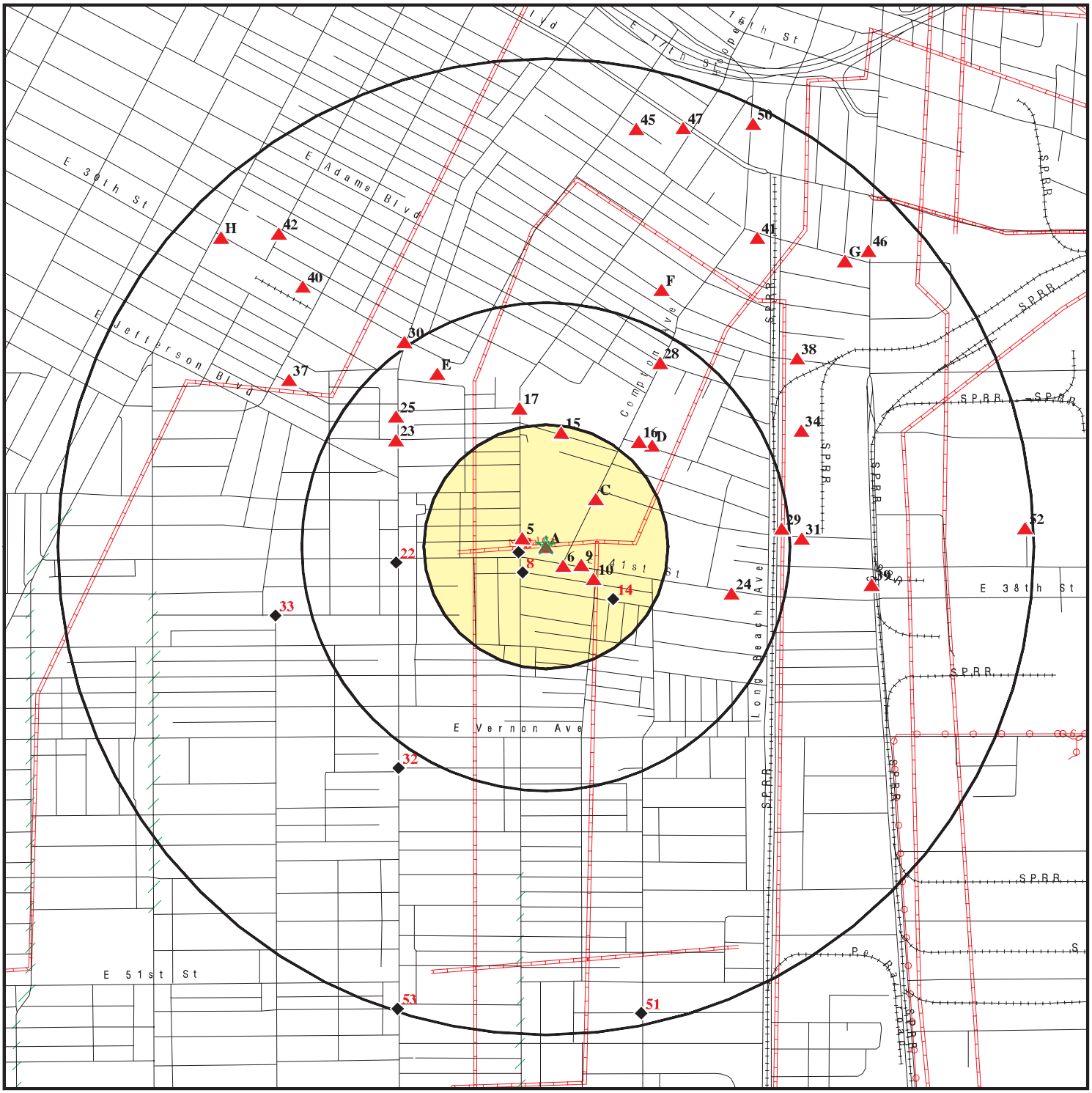
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MC COLLINS MURPHY	4115 ASCOT AVE	SE 0 - 1/8 (0.118 mi.)	10	14

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
JEFFERSON HOOPER PRIMARY SCHOOL NO	ENVIROSTOR, SCH
JEFFERSON ELEMENTARY SCHOOL NO. 1	ENVIROSTOR, SCH

OVERVIEW MAP - 4604037.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Jefferson High School	CLIENT: Partner Engineering and Science, Inc.
ADDRESS: 1319 E 41st St, APNs 5114-036-900,-01,-02,-03,-04 Los Angeles CA 90011	CONTACT: Marisol Garcia
LAT/LONG: 34.009562 / 118.251227	INQUIRY #: 4604037.2s
	DATE: April 28, 2016 7:26 am

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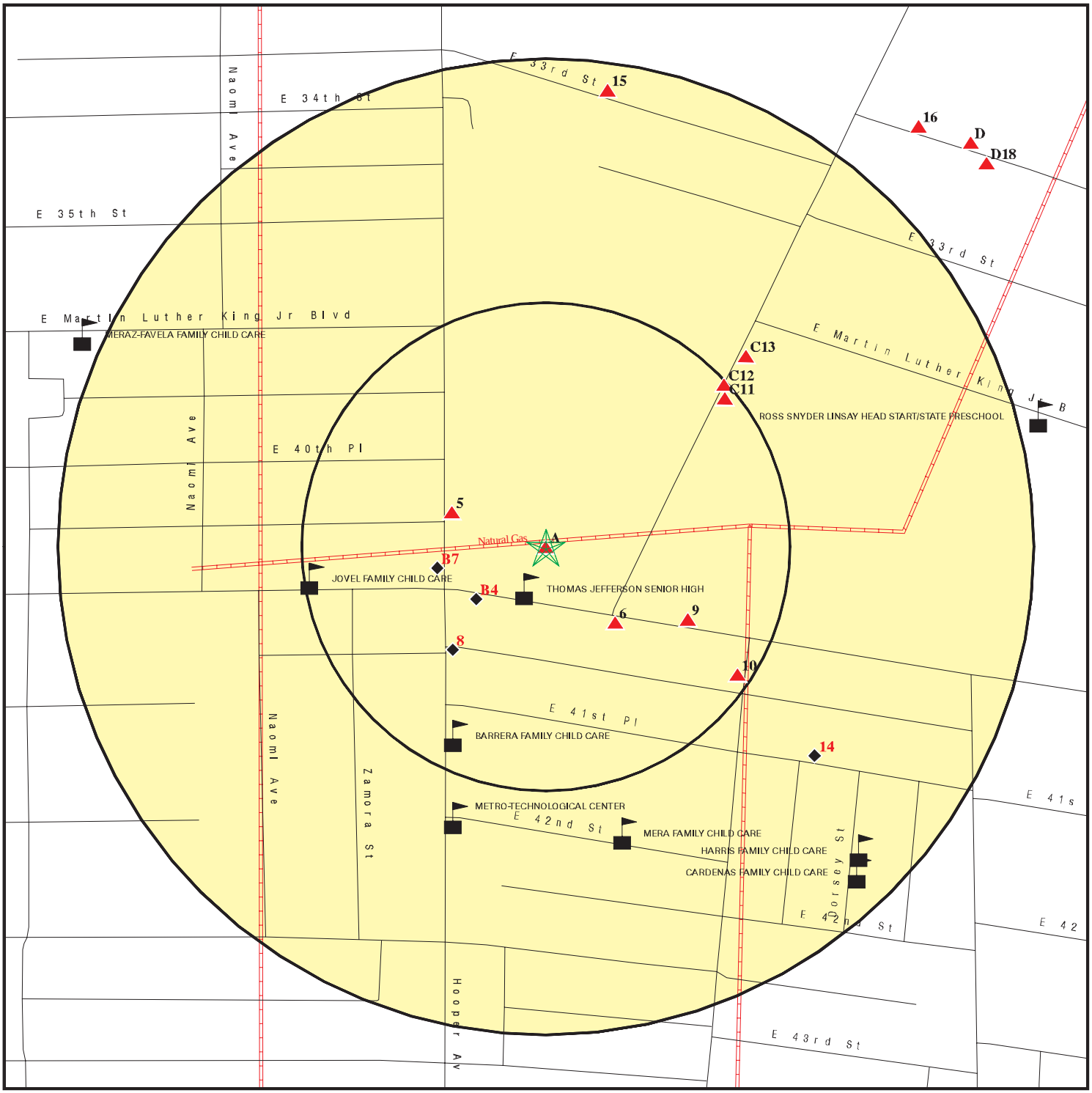
DETAIL MAP - 4604037.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Jefferson High School	CLIENT: Partner Engineering and Science, Inc.
ADDRESS: 1319 E 41st St, APNs 5114-036-900,-01,-02,-03,-04 Los Angeles CA 90011	CONTACT: Marisol Garcia INQUIRY #: 4604037.2s
LAT/LONG: 34.009562 / 118.251227	DATE: April 28, 2016 7:27 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	2	NR	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250	1	0	0	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	1	NR	1
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	4	22	NR	26
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	3	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	2	NR	NR	2
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
HIST Cal-Sites	1.000		0	0	1	0	NR	1
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		2	2	NR	NR	NR	4
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		2	2	NR	NR	NR	4
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	1	NR	NR	1
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	TP	1	NR	NR	NR	NR	NR	1
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	1	NR	NR	NR	NR	NR	1
HIST CORTESE	0.500		0	0	2	NR	NR	2
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
HWP	1.000		0	0	0	1	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		5	NR	NR	NR	NR	5
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		5	11	5	17	25	0	63

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1	**LOS ANGELES USD JEFFERSON HIGH SCHOOL**	**RCRA-SQG**	**1000102123**
Target	**1319 E 41ST ST**	**FINDS**	**CAD982022485**
Property	**LOS ANGELES, CA 90011**	**ECHO**	

Site 1 of 3 in cluster A

Actual: 205 ft.

RCRA-SQG:

Date form received by agency:	08/07/1987
Facility name:	LOS ANGELES USD JEFFERSON HIGH SCHOOL
Facility address:	1319 E 41ST ST LOS ANGELES, CA 90011
EPA ID:	CAD982022485
Mailing address:	1425 S SAN PEDRO ST RM 215 LOS ANGELES, CA 90015
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1319 E FORTY FIRST ST LOS ANGELES, CA 90011
Contact country:	US
Contact telephone:	(213) 742-7371
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

LOS ANGELES USD JEFFERSON HIGH SCHOOL (Continued) **1000102123**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002779093

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000102123
Registry ID:	110002779093
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002779093

A2 **CHMIRS** **S117454559**
Target Property **JEFFERSON HIGH SCHOOL @ 1319 E. 41ST STREET, AT THE CORNER O** **N/A**
LOS ANGELES, CA

Site 2 of 3 in cluster A

Actual: 205 ft.

CHMIRS:

OES Incident Number:	4-6669
OES notification:	11/21/2014
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported

(Continued) **S117454559**

Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Storm Drain
Spill Site:	School
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	SEWAGE
Measure:	Gal(s)
Other:	Not reported
Date/Time:	2000
Year:	2014
Agency:	Los Angeles Unified School District-Env. Health & Safety
Incident Date:	11/21/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Storm Drain
E Date:	Not reported
Substance:	Sewage
Quantity Released:	800
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Blockage
Fatals:	No
Comments:	Not reported
Description:	Caller advises the release is from a mainline blockage, the cause is unknown at this time.

A3 Target Property | **LAUSD/ JEFFERSON HIGH SCHOOL**
1319 E 41ST ST
LOS ANGELES, CA 90011 | **HAZNET** | **S113012598**
N/A

Site 3 of 3 in cluster A

Actual: 205 ft.

HAZNET:

envid:	S113012598
Year:	2013
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported

envid:	S113012598
Year:	2013
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.35
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported

envid:	S113012598
Year:	2013
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported

LAUSD/ JEFFERSON HIGH SCHOOL (Continued) **S113012598**

Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.532
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Not reported

envid:	S113012598
Year:	2013
GEPAID:	CAD982022485
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Not reported
Tons:	0.025
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113012598
Year:	2011
GEPAID:	CAD982022485
Contact:	SOE AUNG / ECM
Telephone:	2132413199
Mailing Name:	Not reported
Mailing Address:	333 S BEAUDRY AVE FL 27
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Not reported
TSD EPA ID:	AZC950823111
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	4
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
51 additional CA_HAZNET: record(s) in the EDR Site Report.

B4
SW
< 1/8
0.045 mi.
235 ft.

RUTLEDGE O C — **EDR Hist Auto** — **1009083387**
1302 E 41ST ST — **N/A**
LOS ANGELES, CA

Site 1 of 2 in cluster B

Relative:
Lower

Actual:
204 ft.

EDR Historical Auto Stations:
Name: RUTLEDGE O C
Year: 1942
Type: GASOLINE AND OIL SERVICE STATIONS

5
WNW
< 1/8
0.051 mi.
271 ft.

LYBROOK D L — **EDR Hist Auto** — **1009082653**
3810 HOOPER AVE — **N/A**
LOS ANGELES, CA

Relative:
Higher

Actual:
205 ft.

EDR Historical Auto Stations:
Name: LYBROOK D L
Year: 1937
Type: AUTOMOBILE REPAIRING

6
SE
< 1/8
0.053 mi.
278 ft.

SUHRIE G N — **EDR Hist Auto** — **1009084330**
1350 E 41ST ST — **N/A**
LOS ANGELES, CA

Relative:
Higher

Actual:
205 ft.

EDR Historical Auto Stations:
Name: SUHRIE G N
Year: 1942
Type: AUTOMOBILE REPAIRING

B7
WSW
< 1/8
0.057 mi.
299 ft.

BIANCO THOS — **EDR Hist Auto** — **1009082671**
4025 H HOOVER — **N/A**
LOS ANGELES, CA

Site 2 of 2 in cluster B

Relative:
Lower

Actual:
204 ft.

EDR Historical Auto Stations:
Name: BIANCO THOS
Year: 1942
Type: GASOLINE AND OIL SERVICE STATIONS

8
SW
< 1/8
0.071 mi.
375 ft.

LYBROOK D L — **EDR Hist Auto** — **1009082060**
4110 HOOPER AVE — **N/A**
LOS ANGELES, CA

Relative:
Lower

Actual:
204 ft.

EDR Historical Auto Stations:
Name: LYBROOK D L
Year: 1942
Type: AUTOMOBILE REPAIRING

9 ESE < 1/8 0.082 mi. 431 ft. | **WEST COAST FOODS**
1377 E 41ST ST
LOS ANGELES, CA 90011 | **SWEEPS UST**
CA FID UST | **S101588188**
N/A

Relative: Higher

Actual: 205 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	7047
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	0

CA FID UST:

Facility ID:	19056428
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	1377 E 41ST ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900110000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

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10 SE < 1/8 0.118 mi. 623 ft. | **MC COLLINS MURPHY**
4115 ASCOT AVE
LOS ANGELES, CA | **EDR Hist Cleaner** | **1009189946**
N/A

Relative: Higher

Actual: 205 ft.

EDR Historical Cleaners:

Name:	MC COLLINS MURPHY
Year:	1937
Type:	CLOTHES PRESSERS AND CLEANERS

C11 NE < 1/8 0.119 mi. 629 ft. | **WEST COAST FOODS 4024 S COMPTON AVE LOS ANGELES, CA 90021** | **SWEEPS UST CA FID UST** | **S101587854 N/A**

Site 1 of 3 in cluster C

Relative: Higher

Actual: 208 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	5522
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19056068
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2132336152
Mail To:	Not reported
Mailing Address:	4024 S COMPTON AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900210000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

C12 NE < 1/8 0.123 mi. 652 ft. | **REMOVAL INC 4046 COMPTON BLVD LAWNDALE, CA 90260** | **RCRA NonGen / NLR FINDS ECHO** | **1000343586 CAD042242347**

Site 2 of 3 in cluster C

Relative: Higher

Actual: 208 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/27/1980
Facility name:	REMOVAL INC
Facility address:	4046 COMPTON BLVD LAWNDALE, CA 90260
EPA ID:	CAD042242347
Mailing address:	PO BOX 7 LAWNDALE, CA 90260
Contact:	ENVIRONMENTAL MANAGER
Contact address:	4046 COMPTON BLVD

REMOVAL INC (Continued) **1000343586**

	LAWNDALE, CA 90260
Contact country:	US
Contact telephone:	(213) 679-1177
Contact email:	Not reported
EPA Region:	09
Land type:	Other land type
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	REMOVAL INC
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	06/04/1985
Date achieved compliance:	07/19/1985
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported

REMOVAL INC (Continued) **1000343586**

Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/04/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 06/04/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 07/19/1985
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110002644826

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000343586
Registry ID: 110002644826
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002644826

C13 **WEST COAST POULTRY CO INC** **SWEEPS UST** **S101584880**
NE **4010 S COMPTON AVE** **CA FID UST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90011**
0.141 mi.
747 ft. **Site 3 of 3 in cluster C**

Relative:
Higher

Actual:
209 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 6375
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported

WEST COAST POULTRY CO INC (Continued) **S101584880**

STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19016570
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2132336151
Mail To: Not reported
Mailing Address: 4020 S COMPTON AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS ANGELES 900110000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

14
SE
1/8-1/4
0.174 mi.
921 ft.

FORMER RESIDENCE TO BECOME VACANT LOT **RCRA-LQG** **1014950500**
1421 E 41ST PL **CAR000224378**
LOS ANGELES, CA 90011

Relative:
Lower

Actual:
204 ft.

RCRA-LQG:
Date form received by agency: 03/28/2012
Facility name: FORMER RESIDENCE TO BECOME VACANT LOT
Facility address: 1421 E 41ST PL
LOS ANGELES, CA 90011
EPA ID: CAR000224378
Mailing address: 315 W 9TH ST
STE 501
LOS ANGELES, CA 90015
Contact: JOEL LAUNCHBAUGH
Contact address: 315 W 9TH ST STE 501
LOS ANGELES, CA 90015
Contact country: US
Contact telephone: 213-270-1729
Contact email: JLAUNCHBAUGH@RESTORENEIGHBORHOODSLA.ORG
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than

FORMER RESIDENCE TO BECOME VACANT LOT (Continued) **1014950500**

100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	RESTORE NEIGHBORHOOD LA INC
Owner/operator address:	315 W 9TH ST STE 501
	LOS ANGELES, CA 90015
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/23/2010
Owner/Op end date:	Not reported

Owner/operator name:	JOEL LAUNCHBAUGH
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/23/2012
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: 352
. Waste name: 352

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

15
North
1/8-1/4
0.236 mi.
1246 ft.

DAYLIGHT TRANSPORT
1359 E 33RD ST
LOS ANGELES, CA 90021

SWEEPS UST **S101584226**
CA FID UST **N/A**

Relative:
Higher

Actual:
212 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	5523
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	0

CA FID UST:

Facility ID:	19009665
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2135661855
Mail To:	Not reported
Mailing Address:	1359 E 33RD ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900210000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

16
NE
1/4-1/2
0.288 mi.
1520 ft.

NEVIN AVENUE ELEMENTARY SCHOOL EXPANSION
1517 EAST 32ND STREET
LOS ANGELES, CA 90011

ENVIROSTOR **S105628496**
SCH **N/A**

Relative:
Higher

Actual:
212 ft.

ENVIROSTOR:

Facility ID:	19340784
Status:	Certified
Status Date:	07/02/2002
Site Code:	304327
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP

NEVIN AVENUE ELEMENTARY SCHOOL EXPANSION (Continued) **S105628496**

Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 53
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.01265
Longitude: -118.2478
APN: NONE SPECIFIED
Past Use: MANUFACTURING - METAL
Potential COC: Polychlorinated biphenyls (PCBs Lead Trichloroethylene (TCE Copper and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: NEVIN AVENUE ELEMENTARY SCHOOL EXPANSION
Alias Type: Alternate Name
Alias Name: PROPOSED NEVIN AVE ES EXPANSION PROJECT
Alias Type: Alternate Name
Alias Name: 110033611722
Alias Type: EPA (FRS #)
Alias Name: 304327
Alias Type: Project Code (Site Code)
Alias Name: 19340784
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/02/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 05/08/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

NEVIN AVENUE ELEMENTARY SCHOOL EXPANSION (Continued) **S105628496**

Completed Document Type:	Removal Action Workplan
Completed Date:	05/08/2002
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	12/17/2002
Comments:	CRU Memo

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19340784
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304327
Assembly:	53
Senate:	33
Special Program Status:	Not reported
Status:	Certified
Status Date:	07/02/2002
Restricted Use:	NO
Funding:	School District
Latitude:	34.01265
Longitude:	-118.2478
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - METAL
Potential COC:	Polychlorinated biphenyls (PCBs, Polychlorinated biphenyls (PCBs, Lead, Trichloroethylene (TCE, Copper and compounds
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT

NEVIN AVENUE ELEMENTARY SCHOOL EXPANSION (Continued) **S105628496**

Alias Type: Alternate Name
Alias Name: NEVIN AVENUE ELEMENTARY SCHOOL EXPANSION
Alias Type: Alternate Name
Alias Name: PROPOSED NEVIN AVE ES EXPANSION PROJECT
Alias Type: Alternate Name
Alias Name: 110033611722
Alias Type: EPA (FRS #)
Alias Name: 304327
Alias Type: Project Code (Site Code)
Alias Name: 19340784
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/02/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 05/08/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 05/08/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/17/2002
Comments: CRU Memo

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

NEVIN AVENUE ELEMENTARY SCHOOL EXPANSION (Continued) **S105628496**

Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

17
North
1/4-1/2
0.289 mi.
1525 ft.

JEFFERSON CONTINUATION HIGH SCHOOL
33RD STREET/HOOPER AVENUE
LOS ANGELES, CA 90011

ENVIROSTOR SCH **S105840738 N/A**

Relative:
Higher

Actual:
212 ft.

ENVIROSTOR:

Facility ID:	19880053
Status:	Inactive - Withdrawn
Status Date:	02/10/2000
Site Code:	304105
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Malinowski
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	59
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.01340
Longitude:	-118.2512
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	JEFFERSON CONTINUATION HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	LA USD-JEFFERSON CONTINUATION HI SCH/VCA
Alias Type:	Alternate Name
Alias Name:	LAUSD-JEFFERSON CONT. HI SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	304028
Alias Type:	Project Code (Site Code)
Alias Name:	304105
Alias Type:	Project Code (Site Code)
Alias Name:	19880053
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

JEFFERSON CONTINUATION HIGH SCHOOL (Continued) **S105840738**

Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/29/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/04/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19880053
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Malinowski
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304105
Assembly: 59
Senate: 30
Special Program Status: Not reported
Status: Inactive - Withdrawn
Status Date: 02/10/2000
Restricted Use: NO
Funding: School District
Latitude: 34.01340
Longitude: -118.2512
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: JEFFERSON CONTINUATION HIGH SCHOOL
Alias Type: Alternate Name

JEFFERSON CONTINUATION HIGH SCHOOL (Continued) **S105840738**

Alias Name:	LA USD-JEFFERSON CONTINUATION HI SCH/VCA
Alias Type:	Alternate Name
Alias Name:	LAUSD-JEFFERSON CONT. HI SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	304028
Alias Type:	Project Code (Site Code)
Alias Name:	304105
Alias Type:	Project Code (Site Code)
Alias Name:	19880053
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/29/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/04/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

D18 **RENU PLATING CO INC** **SEMS-ARCHIVE** **1000423909**
NE **1531 E 32ND ST** **RCRA-LQG** **CAD048479497**
1/4-1/2 **LOS ANGELES, CA 90011**
0.299 mi.
1580 ft. **Site 1 of 4 in cluster D**

Relative:
Higher

Actual:
212 ft.

SEMS-ARCHIVE:

Site ID:	901386
EPA ID:	CAD048479497
Federal Facility:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0901386
Federal Facility:	Not a Federal Facility

RENU PLATING CO INC (Continued) **1000423909**

NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13288597.00000
Person ID: 13003854.00000

Contact Sequence ID: 13294192.00000
Person ID: 13003858.00000

Contact Sequence ID: 13300050.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT
Date Started: 05/01/86
Date Completed: 01/01/87
Priority Level: Low priority for further assessment

Action: DISCOVERY
Date Started: / /
Date Completed: 05/01/86
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 09/01/87
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 09/01/87
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-LQG:
Date form received by agency: 03/18/2010
Facility name: RENU PLATING CORP
Facility address: 1532 E. 32ND. ST.
LOS ANGELES, CA 90011
EPA ID: CAD048479497
Mailing address: E. 32ND ST.
LOS ANGELES, CA 90011
Contact: RANIA A ZABANEH
Contact address: 5796 CORPORATE AVE.
CYPRESS, CA 90630
Contact country: US
Contact telephone: (714) 484-5479
Contact email: RZABANEH@DTSC.CA.GOV
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely

RENU PLATING CO INC (Continued) **1000423909**

hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	RANIA ZABANEH
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/2010
Owner/Op end date:	Not reported

Owner/operator name:	MARIO PINZON
Owner/operator address:	683 WEST 17TH STREET UPLAND, CA 91784
Owner/operator country:	US
Owner/operator telephone:	(909) 781-1000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1999
Owner/Op end date:	Not reported

Owner/operator name:	DAVE AND ERIC LICHTBACH MARSHA DENOFF
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No

RENU PLATING CO INC (Continued) **1000423909**

Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Historical Generators:

Date form received by agency:	09/01/1996
Site name:	RENU PLATING CORP
Classification:	Small Quantity Generator
Violation Status:	No violations found

D19
NE
1/4-1/2
0.300 mi.
1586 ft.

Relative:
Higher

Actual:
212 ft.

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT **ENVIROSTOR** **S113000759**
1531 EAST 32ND STREET **VCP** **N/A**
LOS ANGELES, CA 90011 **DEED**
HAZNET

Site 2 of 4 in cluster D

ENVIROSTOR:

Facility ID:	19340643
Status:	Active
Status Date:	06/28/2001
Site Code:	301631
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.25
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Rania Zabaneh
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	59
Senate:	33
Special Program:	Prospective Purchaser Program
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.01273
Longitude:	-118.2472
APN:	5117001009
Past Use:	METAL PLATING - OTHER, VEHICLE MAINTENANCE
Potential COC:	* ORGANIC LIQUIDS WITH METALS * CONTAMINATED SOIL * UNSPECIFIED ACID SOLUTION Lead Cadmium and compounds Chromium VI Cyanide (free Nickel
Confirmed COC:	Cadmium and compounds 30153-NO 30160-NO Nickel * UNSPECIFIED ACID

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

SOLUTION Lead 10061-NO * CONTAMINATED SOIL
Potential Description: SOIL
Alias Name: NEVIN PARK SITE PPA
Alias Type: Alternate Name
Alias Name: RENU PLATING CO INC
Alias Type: Alternate Name
Alias Name: 5117001009
Alias Type: APN
Alias Name: CAD048479497
Alias Type: EPA Identification Number
Alias Name: 110002647182
Alias Type: EPA (FRS #)
Alias Name: 301014
Alias Type: Project Code (Site Code)
Alias Name: 301631
Alias Type: Project Code (Site Code)
Alias Name: 19340643
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/03/1994
Comments: On March 8, 1994, the L A County Fire Department referred back the site to the Department. The RP was unwilling to obey the County directives. Due the evidence of contamina- tion onsite, the Department recommends a PEA. The Dept. notified the RP that a PEA be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/16/1988
Comments: Site Screening Done: DHS recommend NFA letting LA County Health Department conduct any further remedial action since the area is suitably contained.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 02/13/2009
Comments: DTSC accepted RI from Geomatrix as final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/08/2010
Comments: Removal Action Completion Report completed by ERRG and accepted by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/10/2007
Comments: Workplan was reviewed and deemed acceptable.

Completed Area Name: PROJECT WIDE

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/30/2004
Comments: Accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/11/2008
Comments: Work Order # 2 issued to complete the RI/FS and RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/05/2008
Comments: Renu Contract 04-T2868 Amendment #3 Fully Executed. Amendment extends the term of the Agreement to 6/30/09.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 08/27/2009
Comments: RAW completed by ERRG and approved by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/27/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/27/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/30/2009
Comments: Fieldwork removal action completed at site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/30/2009
Comments: Demolition activities of RPC building done.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/07/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

Completed Date: 12/12/2011
Comments: Site Certified with LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/13/2009
Comments: Work Order completed and Start Work issued to Contractor.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 01/14/2010
Comments: Filed with State Clearinghouse on 1/14/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 01/07/2002
Comments: DTSC sent letter to Mario (owner).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/13/2009
Comments: Contract Fully Executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 02/25/2009
Comments: CFA Fully Executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 12/12/2011
Comments: Lien recorded on 10/21/2011 with the County of Los Angeles.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/02/2011
Comments: Land Use Covenant recorded by County of Los Angeles.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/23/2009
Comments: Amendment to extend termination date of contract to 06/30/2010 fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 05/07/2014
Comments: Pinzon consent decree final

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 09/02/2014
Comments: Morrison consent decree entered by the court on 9/2/2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 06/28/2001
Comments: Unilateral I&SE Order issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/11/1983
Comments: Facility Identified: LA Chamber of Commerce Bus. Dir 1969.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 01/05/2015
Comments: Court judge signed Lichtbachs' consent decree.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Prospective Purchaser Agreement
Future Due Date: 2016
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 05/30/2016
Schedule Revised Date: Not reported

VCP:
Facility ID: 19340643
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.25
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Rania Zabaneh
Supervisor: Eileen Mananian
Division Branch: Cleanup Cypress
Site Code: 301631
Assembly: 59
Senate: 33
Special Programs Code: Prospective Purchaser Program
Status: Active
Status Date: 06/28/2001
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 34.01273 / -118.2472
APN: 5117001009

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

Past Use:	METAL PLATING - OTHER, VEHICLE MAINTENANCE
Potential COC:	10061, 10097, 10193, 30013, 30108, 30153, 30160, 30407
Confirmed COC:	30108,30153-NO,30160-NO,30407,10193,30013,10061-NO,10097
Potential Description:	SOIL
Alias Name:	NEVIN PARK SITE PPA
Alias Type:	Alternate Name
Alias Name:	RENU PLATING CO INC
Alias Type:	Alternate Name
Alias Name:	5117001009
Alias Type:	APN
Alias Name:	CAD048479497
Alias Type:	EPA Identification Number
Alias Name:	110002647182
Alias Type:	EPA (FRS #)
Alias Name:	301014
Alias Type:	Project Code (Site Code)
Alias Name:	301631
Alias Type:	Project Code (Site Code)
Alias Name:	19340643
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	05/03/1994
Comments:	On March 8, 1994, the L A County Fire Department referred back the site to the Department. The RP was unwilling to obey the County directives. Due the evidence of contamina- tion onsite, the Department recommends a PEA. The Dept. notified the RP that a PEA be conducted.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	11/16/1988
Comments:	Site Screening Done: DHS recommend NFA letting LA County Health Department conduct any further remedial action since the area is suitably contained.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	02/13/2009
Comments:	DTSC accepted RI from Geomatrix as final.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	03/08/2010
Comments:	Removal Action Completion Report completed by ERRG and accepted by DTSC.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	07/10/2007
Comments:	Workplan was reviewed and deemed acceptable.

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/30/2004
Comments: Accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/11/2008
Comments: Work Order # 2 issued to complete the RI/FS and RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/05/2008
Comments: Renu Contract 04-T2868 Amendment #3 Fully Executed. Amendment extends the term of the Agreement to 6/30/09.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 08/27/2009
Comments: RAW completed by ERRG and approved by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/27/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/27/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/30/2009
Comments: Fieldwork removal action completed at site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/30/2009
Comments: Demolition activities of RPC building done.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/07/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

Completed Document Type: Certification
Completed Date: 12/12/2011
Comments: Site Certified with LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/13/2009
Comments: Work Order completed and Start Work issued to Contractor.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 01/14/2010
Comments: Filed with State Clearinghouse on 1/14/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 01/07/2002
Comments: DTSC sent letter to Mario (owner).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/13/2009
Comments: Contract Fully Executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 02/25/2009
Comments: CFA Fully Executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 12/12/2011
Comments: Lien recorded on 10/21/2011 with the County of Los Angeles.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/02/2011
Comments: Land Use Covenant recorded by County of Los Angeles.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/23/2009
Comments: Amendment to extend termination date of contract to 06/30/2010 fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 05/07/2014

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

Comments: Pinzon consent decree final

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 09/02/2014
Comments: Morrison consent decree entered by the court on 9/2/2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 06/28/2001
Comments: Unilateral I&SE Order issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/11/1983
Comments: Facility Identified: LA Chamber of Commerce Bus. Dir 1969.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 01/05/2015
Comments: Court judge signed Lichtbachs' consent decree.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Prospective Purchaser Agreement
Future Due Date: 2016
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 05/30/2016
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 19340643
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 11/02/2011

HAZNET:
envid: S113000759
Year: 2009
GEPAID: CAD048479497
Contact: RANIA ZABANEH - DTSC PROJ MGR
Telephone: 2132327340
Mailing Name: Not reported
Mailing Address: 5796 CORPORATE AVE
Mailing City,St,Zip: CYPRESS, CA 90630
Gen County: Not reported

FORMER RENU PLATING COMPANY INC/ AKA PROPOSED NEVIN PARK SIT (Continued) **S113000759**

TSD EPA ID:	CAD980675276
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	233.64
Cat Decode:	Contaminated soil from site clean-up
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	S113000759
Year:	2009
GEPAID:	CAD048479497
Contact:	RANIA ZABANEH - DTSC PROJ MGR
Telephone:	2132327340
Mailing Name:	Not reported
Mailing Address:	5796 CORPORATE AVE
Mailing City,St,Zip:	CYPRESS, CA 90630
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	339.84
Cat Decode:	Contaminated soil from site clean-up
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	S113000759
Year:	2003
GEPAID:	CAD048479497
Contact:	INACTIVE UNDELIVERABLE MAIL
Telephone:	2132327340
Mailing Name:	Not reported
Mailing Address:	1531 E 32ND ST
Mailing City,St,Zip:	LOS ANGELES, CA 900110000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Transfer Station
Tons:	0.15
Cat Decode:	Other inorganic solid waste
Method Decode:	Transfer Station
Facility County:	Los Angeles

D20 NE 1/4-1/2 0.300 mi. 1586 ft. | **RENU PLATING COMPANY INC**
1531 EAST 32ND STREET
LOS ANGELES, CA 90011 | **HIST Cal-Sites** | **S101480804**
N/A

Site 3 of 4 in cluster D

Relative: Higher

Actual: 212 ft.

Calsite:

Region:	GLENDALE
Facility ID:	19340643
Facility Type:	RP
Type:	RESPONSIBLE PARTY
Branch:	SB
Branch Name:	SO CAL - CYPRESS
File Name:	Not reported
State Senate District:	06282001
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	34
SIC Name:	MANU - FABRICATED METAL PRODUCTS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
Staff Member Responsible for Site:	DZOGAIB
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	LA
Region Water Control Board Name:	LOS ANGELES
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	46
State Senate District Code:	22
Facility ID:	19340643
Activity:	DISC
Activity Name:	DISCOVERY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02111983
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

RENU PLATING COMPANY INC (Continued) **S101480804**

Unknown Type:	0
Facility ID:	19340643
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11161988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19340643
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05031994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19340643
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	UNILA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06282001

RENU PLATING COMPANY INC (Continued) **S101480804**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19340643
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312004
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19340643
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06302006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

RENU PLATING COMPANY INC (Continued) **S101480804**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19340643
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19340643
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19340643
Activity:	RAW

RENU PLATING COMPANY INC (Continued) **S101480804**

Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06302005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19340643
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	1531 EAST 32ND STREET
Alternate City,St,Zip:	LOS ANGELES, CA 90011
Alternate Address:	1527 EAST 32ND STREET
Alternate City,St,Zip:	LOS ANGELES, CA 90011
Background Info:	Not reported
Comments Date:	09211994
Comments:	Department to conduct a PEA and/or remediate the site.
Comments Date:	10012001
Comments:	Met with RPs to discuss hiring consultant for RI.
Comments Date:	11161988
Comments:	Site Screening Done: DHS recommend NFA letting LA County

RENU PLATING COMPANY INC (Continued) **S101480804**

Comments Date: 11161988
Comments: Health Department conduct any further remedial action since
Comments Date: 11161988
Comments: the area is suitably contained.
Comments Date: 11292001
Comments: Met with Rps to discuss funding of RI based on DTSC Scope of
Comments Date: 11292001
Comments: Work.
Comments Date: 12011984
Comments: Enforcement: Referred to the City Attorney for criminal
Comments Date: 12011984
Comments: penalties.
Comments Date: 01011986
Comments: Source of Activity: IW Permit, City Sanitation, (9/80) -
Comments Date: 01011986
Comments: brass, bronze, copper, cadmium, nickel, chromium process &
Comments Date: 01011986
Comments: plating. No formal cleanup plan. Chemical consultants of
Comments Date: 01011986
Comments: the city industry analyzed/removed contaminated materials.
Comments Date: 01011986
Comments: Preliminary Assessment submitted to EPA (Cercla 104).
Comments Date: 01011988
Comments: Site listed on Cortese.
Comments Date: 02111983
Comments: Facility Identified: LA Chamber of Commerce Bus. Dir 1969.
Comments Date: 02211984
Comments: Inspection (County Health): Samples taken. High levels of
Comments Date: 02211984
Comments: CR, CD, CU, KCN, NI in soils.
Comments Date: 02211984
Comments: Violation detected (County Health): Violations for improper
Comments Date: 02211984
Comments: acid metals disposal to back lot on soil.
Comments Date: 02241995
Comments: Letter sent re-requesting for a PEA.
Comments Date: 03071983
Comments: Questionnaire sent.
Comments Date: 05031994
Comments: On March 8, 1994, the L A County Fire Department referred
Comments Date: 05031994
Comments: back the site to the Department. The RP was unwilling to
Comments Date: 05031994
Comments: obey the County directives. Due the evidence of contamina-
Comments Date: 05031994
Comments: tion onsite, the Department recommends a PEA. The Dept.
Comments Date: 05031994
Comments: notified the RP that a PEA be conducted.
Comments Date: 05091983
Comments: Facility Drive-by: Adjacent to a school. Open area paved.
Comments Date: 05091983
Comments: Some slight stains. Vegetation non-stressed.
Comments Date: 06201995
Comments: Letter sent.
Comments Date: 06282001
Comments: Unilateral I&SE Order issued.
Comments Date: 07301987

RENU PLATING COMPANY INC (Continued) **S101480804**

Comments:	EPA E&E Federal Investigation Team found that as of 06/04/84
Comments Date:	07301987
Comments:	the excavated area is not backfilled. PB and CR levels are
Comments Date:	07301987
Comments:	above STLC. In July 1987, the site was fully enclosed.
Comments Date:	07301987
Comments:	E&E recommends No Further Action under CERCLA.
Comments Date:	07311984
Comments:	Enforcement: 55-gallon drums of metal sludge hauled to BKK
Comments Date:	07311984
Comments:	by Southern CA Equipment Company.
Comments Date:	08011984
Comments:	Inspection (County Health): No formal plan.
Comments Date:	08022001
Comments:	Met with RPs to discuss I&SE Order.
Comments Date:	09011987
Comments:	Site reported for Proposition 65.
Comments Date:	09161985
Comments:	Facility Drive-by (ASAP): Photos taken.
Comments Date:	09181997
Comments:	Fourth PEA Invite letter sent.
Comments Date:	09181997
Comments:	Not reported
Comments Date:	09211994
Comments:	The Department notified the RPs that they should comply with
Comments Date:	09211994
Comments:	the LA County Fire Department's directive to put a deed
Comments Date:	09211994
Comments:	restriction or enter a Voluntary Cleanup Agreement with the
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD048479497
ID Name:	CALSTARS CODE
ID Value:	301014
Alternate Name:	RENU PLATING COMPANY INCRENU PLATING CO INC
Special Programs Code:	C104
Special Programs Name:	CERCLA 104

D21 **RENU PLATING COMPANY INC** **LIENS** **S105024738**
NE **1531 32ND** **HIST CORTESE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90011** **LA Co. Site Mitigation**
0.300 mi.
1586 ft. **Site 4 of 4 in cluster D**

Relative:
Higher

Actual:
212 ft.

LIENS:

Envirostor Id:	19340643
Latitude:	34.012737
Longitude:	-118.24727
Project Mgr:	RANIA ZABANEH
Project Code:	301014, 301631
If Satisfied:	NO
Date Satisfied:	Not reported
Site Status:	ACTIVE
Site Type:	VOLUNTARY CLEANUP
Completed:	12/12/2011
Lien Amount:	$931,631.39
Amount Remaining:	Not reported
Description:	Site Overview:Location: 1531 East 32nd Street, Los Angeles, CaliforniaCurrent Operations: Two buildings are located at the Site

RENU PLATING COMPANY INC (Continued) **S105024738**

with addresses of 1527 and 1531 E. 32nd St. The structure located at 1527 E. 32nd St. is identified as the former Polishing Operations building and is occupied by a clothing/apparel business. The structure located at 1531 E. 32nd St. is identified as the Renu Plating Company (RPC) building. It is unoccupied and used to store old automobiles and miscellaneous equipment/debris.Historic Operations: RPC operated a plating facility from 1955 to 1984. Polishing operations took place in 1527, and plating operations took place in the 1531 building. Metal plating and cleaning operations included the use of various acids and alkalines, base metals, cyanide, and water baths. Various metal types were used in the plating process, including brass, bronze, cadmium, chrome, copper, nickel, and zinc. Water baths reportedly accumulated various metals and cyanide ions and the rinse water was directed through an 800-gallon clarifier. Metal sludge and water from the clarifier were pumped directly into a truck and transported to BKK Class I Landfill at a rate of 700 gallons every 6 to 8 months.Size: 0.25 acresRegulatory Status: This is an Orphan Site. RPC was served with a Notice of Violation by LACSD and LACHD in 1983 & 1984 for improper handling and disposal of hazardous materials. In 2001, DTSC issued an I&SE Determination and RAO. Due to the Responsible Parties inability to meet their commitments as described in the Order, DTSC found them in Non-Compliance and initiated a state funded investigation of the Site.Sources of Contamination: Due to plating operations.Media Contaminated: Metals/inorganic compounds in soil; groundwater suspectProximity to populated areas: This Site is located in a mixed residential, commercial, and industrial area. It borders the Nevin Avenue Elementary School playground to the north and east.Existence of ecologically sensitive habitats: None.Community Concerns: There is public interest due to Site bordering an elementary school.Past Activities: DTSC conducted a removal action and certified the site on 12/12/2011 with a Land Use Covenant that was placed on the site due to inaccessible contamination and stability issues. A Lien has been placed on the site to recover DTSC past costs.Current Activities: DTSC rescinded the Certification of the Site and prepared a draft Land Use Covenant (LUC.) Currently, DTSC is waiting to identify if operator of the Brawley Radiator Shop is also the owner so he can sign the LUC after which the site will be certified with a LUC. Afterwards, DTSC will conduct annual LUC inspections to ensure that the site is not disturbed, not used for any sensitive uses such as daycare, hospital, or residence, etc. DTSC will also work on cost recovery.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	CALSI
Reg Id:	19340643

LA Co. Site Mitigation:

Facility ID:	Not reported
Site ID:	Not reported
Jurisdiction:	Not reported
Case ID:	Not reported
Abated:	Yes
Assigned To:	Kim Clark

RENU PLATING COMPANY INC (Continued) **S105024738**

Entered Date: Not reported

22
West
1/4-1/2
0.308 mi.
1628 ft.

WE RECYCLING
4107 S CENTRAL AVE
LOS ANGELES, CA 90011

SWRCY **S114472108**
N/A

Relative:
Lower

Actual:
200 ft.

SWRCY:

Reg Id:	190191
Cert Id:	RC190191.001
Mailing Address:	11005 Vanowen St Apt A
Mailing City:	North Hollywood
Mailing State:	CA
Mailing Zip Code:	91605
Website:	Not reported
Email:	Not reported
Phone Number:	(818) 749-9651
Grand Father:	N
Rural:	N
Operation Begin Date:	11/16/2013
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	8:00 am - 6:30 pm
Tuesday Hours Of Operation:	8:00 am - 6:30 pm
Wednesday Hours Of Operation:	8:00 am - 6:30 pm
Thursday Hours Of Operation:	8:00 am - 6:30 pm
Friday Hours Of Operation:	8:00 am - 6:30 pm
Saturday Hours Of Operation:	8:00 am - 5:00 pm
Sunday Hours Of Operation:	9:00 am - 4:00 pm
Organization ID:	179350
Organization Name:	We Recycling

23
NW
1/4-1/2
0.377 mi.
1990 ft.

LA CITY FIRE STATION #14
3401 CENTRAL AVE S
LOS ANGELES, CA 90011

LUST **S104773304**
N/A

Relative:
Higher

Actual:
206 ft.

LUST:

Region:	STATE
Global Id:	T0603793075
Latitude:	34.012449
Longitude:	-118.256629
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/18/2003
Lead Agency:	LOS ANGELES, CITY OF
Case Worker:	EL
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900110116
LOC Case Number:	Not reported
File Location:	Not reported

LA CITY FIRE STATION #14 (Continued) **S104773304**

Potential Media Affect: Soil
Potential Contaminants of Concern: Aviation
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603793075
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603793075
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603793075
Status: Completed - Case Closed
Status Date: 04/18/2003

Global Id: T0603793075
Status: Open - Case Begin Date
Status Date: 10/06/1999

Global Id: T0603793075
Status: Open - Site Assessment
Status Date: 10/07/1999

Global Id: T0603793075
Status: Open - Site Assessment
Status Date: 07/15/2002

Regulatory Activities:
Global Id: T0603793075
Action Type: Other
Date: 10/07/1999
Action: Leak Reported

Global Id: T0603793075
Action Type: Other
Date: 10/06/1999
Action: Leak Discovery

LUST REG 4:
Region: 4

LA CITY FIRE STATION #14 (Continued) **S104773304**

Regional Board:	04
County:	Los Angeles
Facility Id:	900110116
Status:	Leak being confirmed
Substance:	1
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Soil
Abatement Method Used at the Site:	Not reported
Global ID:	T0603793075
W Global ID:	Not reported
Staff:	UNK
Local Agency:	19050
Cross Street:	Not reported
Enforcement Type:	Not reported
Date Leak Discovered:	10/6/1999
Date Leak First Reported:	10/7/1999
Date Leak Record Entered:	Not reported
Date Confirmation Began:	10/7/1999
Date Leak Stopped:	Not reported
Date Case Last Changed on Database:	10/7/1999
Date the Case was Closed:	Not reported
How Leak Discovered:	Repair Tank
How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	CITY OF L.A. FIRE DEPT
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	7960.4009705909545464949174 93
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	CITY OF LOS ANGELES
RP Address:	419 S. SPRING ST., 12TH FL., LOS ANGELES, CA 90013
Program:	LUST
Lat/Long:	34.012648 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

24 ESE 1/4-1/2 0.393 mi. 2073 ft. | **PACIFIC PIONEER PLASTIC CO**
1642 E 41ST
LOS ANGELES, CA 90011 | **SEMS-ARCHIVE** | **1003878303**
CAD009687005

Relative: Higher

Actual: 206 ft.

SEMS-ARCHIVE:

Site ID:	901241
EPA ID:	CAD009687005
Federal Facility:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0901241
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13287038.00000
Person ID:	13003854.00000
Contact Sequence ID:	13292633.00000
Person ID:	13003858.00000
Contact Sequence ID:	13298491.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	ESTHER ROMO (SHPEGEL) - OWNER
Alias Address:	Not reported CA

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	07/01/86
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	03/01/87
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	07/01/86
Date Completed:	03/01/87
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

25 NW 1/4-1/2 0.407 mi. 2148 ft.

CONTINENTAL ICE CREAM INC
3325 CENTRAL AVE S
LOS ANGELES, CA 90011

LUST **S103065176**
HIST CORTESE **N/A**

Relative: Higher

Actual: 208 ft.

LUST:

Region:	STATE
Global Id:	T0603700498
Latitude:	34.013003
Longitude:	-118.2565344
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/21/2000
Lead Agency:	LOS ANGELES, CITY OF
Case Worker:	WR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900110098
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700498
Contact Type:	Local Agency Caseworker
Contact Name:	TBD
Organization Name:	LOS ANGELES, CITY OF
Address:	200 N. MAIN ST. RM. 970
City:	LOS ANGELES
Email:	Not reported
Phone Number:	2134826528

Global Id:	T0603700498
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603700498
Status:	Completed - Case Closed
Status Date:	06/21/2000

Global Id:	T0603700498
Status:	Open - Case Begin Date
Status Date:	02/18/1993

Global Id:	T0603700498
Status:	Open - Site Assessment
Status Date:	02/18/1993

CONTINENTAL ICE CREAM INC (Continued) **S103065176**

Regulatory Activities:

Global Id:	T0603700498
Action Type:	Other
Date:	10/21/1993
Action:	Leak Discovery
Global Id:	T0603700498
Action Type:	Other
Date:	02/18/1994
Action:	Leak Reported

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	900110098
Status:	Pollution Characterization
Substance:	Gasoline
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Soil
Abatement Method Used at the Site:	Not reported
Global ID:	T0603700498
W Global ID:	Not reported
Staff:	UNK
Local Agency:	19050
Cross Street:	34TH ST
Enforcement Type:	Not reported
Date Leak Discovered:	10/21/1993
Date Leak First Reported:	2/18/1994
Date Leak Record Entered:	3/22/1994
Date Confirmation Began:	Not reported
Date Leak Stopped:	Not reported
Date Case Last Changed on Database:	2/10/2000
Date the Case was Closed:	Not reported
How Leak Discovered:	Tank Closure
How Leak Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	8051.6148543674420782236672 29
Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	2/18/1993
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	.1
Significant Interim Remedial Action Taken:	Not reported

CONTINENTAL ICE CREAM INC (Continued) **S103065176**

GW Qualifier:	Not reported
Soil Qualifier:	<
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	RAY S YUN
RP Address:	S CENTRAL AVE, LOS ANGELES, CA 90011
Program:	LUST
Lat/Long:	34.0135057 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900110098

E26
NNW
1/4-1/2
0.418 mi.
2207 ft.

DRIZ KNITTING MILL INC
3000 S CENTRAL AVE
LOS ANGELES, CA 90011

LUST **S101583924**
SWEEPS UST **N/A**
CA FID UST

Site 1 of 2 in cluster E

Relative:
Higher

Actual:
213 ft.

LUST:

Region:	STATE
Global Id:	T0603746785
Latitude:	34.014855
Longitude:	-118.256502
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/03/2013
Lead Agency:	LOS ANGELES, CITY OF
Case Worker:	ML
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	Not reported
LOC Case Number:	XS0000030
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	MTBE / TBA / Other Fuel Oxygenates
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603746785
Contact Type:	Local Agency Caseworker
Contact Name:	MARCUS LOOK
Organization Name:	LOS ANGELES, CITY OF
Address:	200 N. MAIN ST. RM. 970
City:	LOS ANGELES
Email:	Not reported
Phone Number:	Not reported

DRIZ KNITTING MILL INC (Continued) **S101583924**

Global Id:	T0603746785
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603746785
Status:	Completed - Case Closed
Status Date:	01/18/1996
Global Id:	T0603746785
Status:	Completed - Case Closed
Status Date:	07/03/2013
Global Id:	T0603746785
Status:	Open - Case Begin Date
Status Date:	09/02/1993
Global Id:	T0603746785
Status:	Open - Site Assessment
Status Date:	02/13/1995

Regulatory Activities:

Global Id:	T0603746785
Action Type:	Other
Date:	11/17/1993
Action:	Leak Reported
Global Id:	T0603746785
Action Type:	Other
Date:	09/02/1993
Action:	Leak Discovery

SWEEPS UST:

Status:	Active
Comp Number:	8087
Number:	1
Board Of Equalization:	Not reported
Referral Date:	07-29-93
Action Date:	10-08-93
Created Date:	11-10-92
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

DRIZ KNITTING MILL INC (Continued) **S101583924**

CA FID UST:

Facility ID:	19007394
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2132312104
Mail To:	Not reported
Mailing Address:	3000 S CENTRAL AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900110000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

E27 **DRITZ KNITTING** **SLIC** **S104404771**
NNW **3000 CENTRAL** **N/A**
1/4-1/2 **LOS ANGELES, CA 90011**
0.418 mi.
2207 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
213 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/18/1996
Global Id:	SL204621634
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.313366
Longitude:	-118.480203
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0418
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	No further action required
SLIC:	0418
Substance:	TPH
Staff:	Not reported

28 NNE 1/4-1/2 0.444 mi. 2343 ft. | **CENTRAL REGION MIDDLE SCHOOL #7**
SOUTH COMPTON AVENUE/EAST ADAMS BOULEVARD/EAST 27TH STREET
LOS ANGELES, CA 90071 | **ENVIROSTOR SCH** | **S107736110 N/A**

Relative: Higher

Actual: 217 ft.

ENVIROSTOR:

Facility ID:	60000086
Status:	Certified
Status Date:	11/30/2009
Site Code:	304497
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	5.86
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Angela Garcia
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	59
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.0151
Longitude:	-118.2481
APN:	NONE SPECIFIED
Past Use:	DRY CLEANING, MANUFACTURING - INDUSTRIAL MACHINERY, VEHICLE MAINTENANCE
Potential COC:	Arsenic Benzene Lead Tetrachloroethylene (PCE TPH-diesel TPH-gas Copper and compounds
Confirmed COC:	Tetrachloroethylene (PCE TPH-diesel TPH-gas Copper and compounds Arsenic 30003-NO Lead
Potential Description:	IA, SOIL, SV
Alias Name:	LAUSD-CRMS #7 SITE 6 5640010
Alias Type:	Alternate Name
Alias Name:	110033619430
Alias Type:	EPA (FRS #)
Alias Name:	304497
Alias Type:	Project Code (Site Code)
Alias Name:	60000086
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	School Cleanup Agreement
Completed Date:	09/28/2007
Comments:	Amended SCA Master Agreement to add this site
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Environmental Impact Report
Completed Date:	11/15/2007
Comments:	The Draft Initial Study was approved for the 30-day public comment period. The public comment period is from November 15, 2007 to December 17, 2007.

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 04/08/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/25/2009
Comments: DTSC approved the Removal Action Completion Report with a No Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 11/25/2009
Comments: DTSC certified that response action according to the DTSC-approved RAW is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/07/2005
Comments: Concurred with SOW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/02/2005
Comments: Approved PEA for FA for metals (copper and lead), total petroleum hydrocarbons; elevated benzene and tetrachloroethene. PEA public comment period 9/22/05-10/21/05; hearing 10/06/05.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/15/2005
Comments: No letter issued. Soil sampling results for export of 8-10,000 cubic yards of soil. Document reviewed and no comments provided, added to the administrative record.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 09/28/2007
Comments: The Remedial Action Plan (RAP) was contingently approved for implementation. DTSC requested that LAUSD re-calculate the Johnson & Ettinger (J&E) model indoor air risk.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/19/2006
Comments: Approved SSI - Removal Action Workplan (RAW) necessary for metals, TPH and VOC's impacts.

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 09/29/2006
Comments: Approved the VOC Investigation-Technical Memorandum via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 02/14/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 01/18/2008
Comments: Approved the Removal Action Workplan (RAW) to remove the metals and total petroleum hydrocarbons (TPH) impacted soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 01/19/2007
Comments: Approved the Supplemental VOC Investigation Technical Memorandum via electronic mail on January 19, 2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/25/2007
Comments: Issued LBP SSI approval letter with further action for the 1434 East Adams Parcel. Approximately 1213 Cubic yards of lead impacted soil was identified for removal in the SSI. The impacted LBP soil will be removed in the Remedial Action Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 08/11/2007
Comments: Received the off-site VOC investigation Technical Memorandum for additional soil gas characterization on Adams Street. The TM will be incorporated into the current RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/25/2007
Comments: Approved the Technical Memorandum via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/28/2007
Comments: Issued 4.15 letter

Completed Area Name: PROJECT WIDE

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/11/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/08/2007
Comments: The Final Fact Sheet was approved for the site. The public comment period will start on November 15, 2007 and end on December 17, 2007. The Community meeting is scheduled on November 27, 2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/21/2007
Comments: Approved the public comment extension to January 7, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/20/2007
Comments: Approved the public notice for extending the public comment period. The public comment period ends on January 7, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/24/2008
Comments: DTSC has reviewed the UST report and concurs the NFA recommendation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/14/2008
Comments: The Supplemental Removal Action Technical Memorandum documents the excavation, and confirmation sampling associated with 30 cubic yards of lead impacted soil on the sidewalls that were not addressed in the Remedial Action Plan (RAP) due to access issues.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/29/2009
Comments: DTSC approved the Removal action Competion Report with Further Action determination for short term operation and maintenance to address potential impacts from offsite .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/07/2008
Comments: Approved UST Closure Report which documented the excavation and confirmation sampling activities associated with the former 8,000 gallon UST.

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/10/2008
Comments: The UST Closure Report documented the excavation and confirmation sampling activities associated with the former 550 gallon UST.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/13/2009
Comments: Technical Memorandum No. 10 documents the evaluation of potential indoor air risks due to the vapor intrusion pathway. Based on the results of implementation of SVE and a HDPE vapor liner was not necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/28/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/03/2011
Comments: CRU Memo completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/15/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60000086
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 5.86

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Angela Garcia
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304497
Assembly:	59
Senate:	30
Special Program Status:	Not reported
Status:	Certified
Status Date:	11/30/2009
Restricted Use:	NO
Funding:	School District
Latitude:	34.0151
Longitude:	-118.2481
APN:	NONE SPECIFIED
Past Use:	DRY CLEANING, MANUFACTURING - INDUSTRIAL MACHINERY, VEHICLE MAINTENANCE
Potential COC:	Arsenic, Benzene, Lead, Tetrachloroethylene (PCE, TPH-diesel, TPH-gas, Copper and compounds
Confirmed COC:	Tetrachloroethylene (PCE, TPH-diesel, TPH-gas, Copper and compounds, Arsenic, 30003-NO, Lead
Potential Description:	IA, SOIL, SV
Alias Name:	LAUSD-CRMS #7 SITE 6 5640010
Alias Type:	Alternate Name
Alias Name:	110033619430
Alias Type:	EPA (FRS #)
Alias Name:	304497
Alias Type:	Project Code (Site Code)
Alias Name:	60000086
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	School Cleanup Agreement
Completed Date:	09/28/2007
Comments:	Amended SCA Master Agreement to add this site

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Environmental Impact Report
Completed Date:	11/15/2007
Comments:	The Draft Initial Study was approved for the 30-day public comment period. The public comment period is from November 15, 2007 to December 17, 2007.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	04/08/2005
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

Completed Date: 11/25/2009
Comments: DTSC approved the Removal Action Completion Report with a No Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 11/25/2009
Comments: DTSC certified that response action according to the DTSC-approved RAW is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 04/07/2005
Comments: Concurred with SOW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/02/2005
Comments: Approved PEA for FA for metals (copper and lead), total petroleum hydrocarbons; elevated benzene and tetrachloroethene. PEA public comment period 9/22/05-10/21/05; hearing 10/06/05.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/15/2005
Comments: No letter issued. Soil sampling results for export of 8-10,000 cubic yards of soil. Document reviewed and no comments provided, added to the administrative record.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 09/28/2007
Comments: The Remedial Action Plan (RAP) was contingently approved for implementation. DTSC requested that LAUSD re-calculate the Johnson & Ettinger (J&E) model indoor air risk.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/19/2006
Comments: Approved SSI - Removal Action Workplan (RAW) necessary for metals, TPH and VOC's impacts.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 09/29/2006
Comments: Approved the VOC Investigation-Technical Memorandum via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

Completed Document Type: Supplemental Site Investigation Report
Completed Date: 02/14/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 01/18/2008
Comments: Approved the Removal Action Workplan (RAW) to remove the metals and total petroleum hydrocarbons (TPH) impacted soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 01/19/2007
Comments: Approved the Supplemental VOC Investigation Technical Memorandum via electronic mail on January 19, 2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/25/2007
Comments: Issued LBP SSI approval letter with further action for the 1434 East Adams Parcel. Approximately 1213 Cubic yards of lead impacted soil was identified for removal in the SSI. The impacted LBP soil will be removed in the Remedial Action Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 08/11/2007
Comments: Received the off-site VOC investigation Technical Memorandum for additional soil gas characterization on Adams Street. The TM will be incorporated into the current RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/25/2007
Comments: Approved the Technical Memorandum via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/28/2007
Comments: Issued 4.15 letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/11/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/08/2007

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

Comments: The Final Fact Sheet was approved for the site. The public comment period will start on November 15, 2007 and end on December 17, 2007. The Community meeting is scheduled on November 27, 2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/21/2007
Comments: Approved the public comment extension to January 7, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/20/2007
Comments: Approved the public notice for extending the public comment period. The public comment period ends on January 7, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/24/2008
Comments: DTSC has reviewed the UST report and concurs the NFA recommendation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/14/2008
Comments: The Supplemental Removal Action Technical Memorandum documents the excavation, and confirmation sampling associated with 30 cubic yards of lead impacted soil on the sidewalls that were not addressed in the Remedial Action Plan (RAP) due to access issues.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/29/2009
Comments: DTSC approved the Removal action Competion Report with Further Action determination for short term operation and maintenance to address potential impacts from offsite .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/07/2008
Comments: Approved UST Closure Report which documented the excavation and confirmation sampling activities associated with the former 8,000 gallon UST.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/10/2008
Comments: The UST Closure Report documented the excavation and confirmation sampling activities associated with the former 550 gallon UST.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CENTRAL REGION MIDDLE SCHOOL #7 (Continued) **S107736110**

Completed Document Type: Other Report
Completed Date: 01/13/2009
Comments: Technical Memorandum No. 10 documents the evaluation of potential indoor air risks due to the vapor intrusion pathway. Based on the results of implementation of SVE and a HDPE vapor liner was not necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/28/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/03/2011
Comments: CRU Memo completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/15/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

29
East
1/4-1/2
0.485 mi.
2561 ft.

SA RECYCLING
3248 LONG BEACH AVE
LOS ANGELES, CA 90058

SWRCY **S109442064**
NPDES **N/A**

Relative:
Higher

Actual:
211 ft.

SWRCY:
Reg Id: 46018
Cert Id: RC14549
Mailing Address: 2411 N Glassell
Mailing City: Orange
Mailing State: CA
Mailing Zip Code: 92865
Website: Not reported
Email: tjohnson@sarecycling.com
Phone Number: (323) 234-1883
Grand Father: N

SA RECYCLING (Continued) **S109442064**

Rural:	N
Operation Begin Date:	11/13/2009
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	6:30 am - 4:00 pm
Tuesday Hours Of Operation:	6:30 am - 4:00 pm
Wednesday Hours Of Operation:	6:30 am - 4:00 pm
Thursday Hours Of Operation:	6:30 am - 4:00 pm
Friday Hours Of Operation:	6:30 am - 4:00 pm
Saturday Hours Of Operation:	6:30 am - 12:00 pm
Sunday Hours Of Operation:	CLOSED
Organization ID:	18968
Organization Name:	SA Recycling LLC

NPDES:

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	331026
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I021111
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/05/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	SA Recycling LLC
Discharge Address:	2411 N Glassell Street
Discharge City:	Orange
Discharge State:	California
Discharge Zip:	92865
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported

SA RECYCLING (Continued) **S109442064**

OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	331026
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I021111
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008

SA RECYCLING (Continued) **S109442064**

PROCESSED DATE:	9/5/2007
STATUS CODE NAME:	Active
STATUS DATE:	9/5/2007
PLACE SIZE:	4
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Todd Peterson
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	714-632-2000
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	tpeterson@sarecycling.com
OPERATOR NAME:	SA Recycling LLC
OPERATOR ADDRESS:	2411 N Glassell Street
OPERATOR CITY:	Orange
OPERATOR STATE:	California
OPERATOR ZIP:	92865
OPERATOR CONTACT NAME:	Todd Peterson
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	714-632-2000
OPERATOR CONTACT PHONE EXT:	2041
OPERATOR CONTACT EMAIL:	tpeterson@sarecycling.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Los Angeles River
CERTIFIER NAME:	Tesha Johnson
CERTIFIER TITLE:	Corporate Permits Manager
CERTIFICATION DATE:	28-JAN-15
PRIMARY SIC:	5093-Scrap and Waste Materials
SECONDARY SIC:	5015-Motor Vehicle Parts, Used
TERTIARY SIC:	Not reported

30 NW 1/2-1 0.510 mi. 2691 ft.

PACIFIC ALLIED MANUFACTURING COMPANY
2911 SOUTH CENTRAL AVENUE
LOS ANGELES, CA 90011

ENVIROSTOR **S101480773**
LA Co. Site Mitigation **N/A**

Relative: Higher

Actual: 213 ft.

ENVIROSTOR:

Facility ID:	19340018
Status:	No Further Action
Status Date:	11/08/1994
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	0
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	59
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.01544
Longitude:	-118.2566
APN:	5128021002
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	B&B AUTO PRODUCTS
Alias Type:	Alternate Name
Alias Name:	5128021002
Alias Type:	APN
Alias Name:	19340018
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	01/05/1982
Comments:	FACILITY IDENTIFIED LA CHAM OF COMM BUS DIR 1958 ELECTROPLATING
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	11/08/1994
Comments:	DATABASE VALIDATION PROJECT CONFIRMS NFA FOR DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	03/11/1988
Comments:	PRELIM ASSESS DONE PA MED. DUE TO LACK OF INFO.
Future Area Name:	Not reported

PACIFIC ALLIED MANUFACTURING COMPANY (Continued) **S101480773**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LA Co. Site Mitigation:
Facility ID: Not reported
Site ID: Not reported
Jurisdiction: Not reported
Case ID: Not reported
Abated: Not reported
Assigned To: Not reported
Entered Date: Not reported

31
East
1/2-1
0.525 mi.
2770 ft.

SINGER CO LA PERIOD FURNITURE DIV
1838 E SANTA BARBARA AVE
LOS ANGELES, CA 90058

HWP **S109467266**
N/A

Relative:
Higher

Actual:
210 ft.

HWP:
EPA Id: CAD072300072
Cleanup Status: KNOWN GENERATORS
Latitude: 34.00990
Longitude: -118.2407
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 59
Senate District: 33
Public Information Officer: Not reported
Public Information Officer: Not reported

32
SSW
1/2-1
0.545 mi.
2875 ft.

CENTRAL REGION ELEMENTARY SCHOOL #21
EAST 45TH STREET AND SOUTH CENTRAL AVENUE
LOS ANGELES, CA 90011

ENVIROSTOR SCH **S108974319**
N/A

Relative:
Lower

Actual:
193 ft.

ENVIROSTOR:
Facility ID: 60000819
Status: Certified
Status Date: 06/03/2010
Site Code: 304591
Site Type: School Cleanup
Site Type Detailed: School
Acres: 2.74
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP

CENTRAL REGION ELEMENTARY SCHOOL #21 (Continued) **S108974319**

Program Manager:	Ivy Osornio
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	59
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.0027
Longitude:	-118.2571
APN:	5108-026-007, 5108-026-008, 5108-026-011, 5108-026-012, 5108-026-013, 5108-026-014, 5108-026-023, 5108-026-029, 5108-026-033, 5108-026-034, 5108-026-035, 5108-026-900, 5108026007, 5108026008, 5108026011, 5108026012, 5108026013, 5108026014, 5108026023, 5108026029, 5108026033, 5108026034, 5108026035, 5108026900
Past Use:	DRY CLEANING, FUEL - VEHICLE STORAGE/ REFUELING, LAUNDRY SERVICES, MANUFACTURING - OTHER, RESIDENTIAL AREA, RETAIL - SERVICE STATION, VEHICLE MAINTENANCE
Potential COC:	Arsenic DDT Lead Polychlorinated biphenyls (PCBs Dieldrin
Confirmed COC:	Arsenic Lead DDT Dieldrin Polychlorinated biphenyls (PCBs
Potential Description:	SOIL, SV
Alias Name:	5108-026-007
Alias Type:	APN
Alias Name:	5108-026-008
Alias Type:	APN
Alias Name:	5108-026-011
Alias Type:	APN
Alias Name:	5108-026-012
Alias Type:	APN
Alias Name:	5108-026-013
Alias Type:	APN
Alias Name:	5108-026-014
Alias Type:	APN
Alias Name:	5108-026-023
Alias Type:	APN
Alias Name:	5108-026-029
Alias Type:	APN
Alias Name:	5108-026-033
Alias Type:	APN
Alias Name:	5108-026-034
Alias Type:	APN
Alias Name:	5108-026-035
Alias Type:	APN
Alias Name:	5108-026-900
Alias Type:	APN
Alias Name:	5108026007
Alias Type:	APN
Alias Name:	5108026008
Alias Type:	APN
Alias Name:	5108026011
Alias Type:	APN
Alias Name:	5108026012
Alias Type:	APN
Alias Name:	5108026013
Alias Type:	APN
Alias Name:	5108026014

CENTRAL REGION ELEMENTARY SCHOOL #21 (Continued) **S108974319**

Alias Type: APN
Alias Name: 5108026023
Alias Type: APN
Alias Name: 5108026029
Alias Type: APN
Alias Name: 5108026033
Alias Type: APN
Alias Name: 5108026034
Alias Type: APN
Alias Name: 5108026035
Alias Type: APN
Alias Name: 5108026900
Alias Type: APN
Alias Name: 304591
Alias Type: Project Code (Site Code)
Alias Name: 60000819
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/09/2009
Comments: DTSC finalized the NOE concurrent with approval of the RAW for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 08/18/2009
Comments: Rec'd signed agreement from district

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/03/2010
Comments: DTSC certified that the response action according to the DTSC-approved RAW is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/03/2010
Comments: DTSC prepared a project close out Cost Recovery Unit Memorandum

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/13/2008
Comments: Phase I submitted for background information. Project Scoping document to follow

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 05/15/2008
Comments: DTSC approved the PEA scoping document with comments

CENTRAL REGION ELEMENTARY SCHOOL #21 (Continued) **S108974319**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/16/2008
Comments: DTSC approved the PEA with a Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/10/2009
Comments: DTSC approved the RAW for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/05/2009
Comments: DTSC approved the fact sheet

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 02/24/2009
Comments: DTSC accepted the community profile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/24/2009
Comments: DTSC approved the public notice

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/03/2010
Comments: DTSC approved the Removal Action Completion Report with a No Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 07/28/2009
Comments: signed 4.15 sent to district

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60000819
Site Type: School Cleanup

CENTRAL REGION ELEMENTARY SCHOOL #21 (Continued) **S108974319**

Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.74
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Ivy Osornio
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304591
Assembly:	59
Senate:	30
Special Program Status:	Not reported
Status:	Certified
Status Date:	06/03/2010
Restricted Use:	NO
Funding:	School District
Latitude:	34.0027
Longitude:	-118.2571
APN:	5108-026-007, 5108-026-008, 5108-026-011, 5108-026-012, 5108-026-013, 5108-026-014, 5108-026-023, 5108-026-029, 5108-026-033, 5108-026-034, 5108-026-035, 5108-026-900, 5108026007, 5108026008, 5108026011, 5108026012, 5108026013, 5108026014, 5108026023, 5108026029, 5108026033, 5108026034, 5108026035, 5108026900
Past Use:	DRY CLEANING, FUEL - VEHICLE STORAGE/ REFUELING, LAUNDRY SERVICES, MANUFACTURING - OTHER, RESIDENTIAL AREA, RETAIL - SERVICE STATION, VEHICLE MAINTENANCE
Potential COC:	Arsenic, DDT, Lead, Polychlorinated biphenyls (PCBs, Dieldrin
Confirmed COC:	Arsenic, Lead, DDT, Dieldrin, Polychlorinated biphenyls (PCBs
Potential Description:	SOIL, SV
Alias Name:	5108-026-007
Alias Type:	APN
Alias Name:	5108-026-008
Alias Type:	APN
Alias Name:	5108-026-011
Alias Type:	APN
Alias Name:	5108-026-012
Alias Type:	APN
Alias Name:	5108-026-013
Alias Type:	APN
Alias Name:	5108-026-014
Alias Type:	APN
Alias Name:	5108-026-023
Alias Type:	APN
Alias Name:	5108-026-029
Alias Type:	APN
Alias Name:	5108-026-033
Alias Type:	APN
Alias Name:	5108-026-034
Alias Type:	APN
Alias Name:	5108-026-035
Alias Type:	APN
Alias Name:	5108-026-900
Alias Type:	APN
Alias Name:	5108026007
Alias Type:	APN

CENTRAL REGION ELEMENTARY SCHOOL #21 (Continued) **S108974319**

Alias Name: 5108026008
Alias Type: APN
Alias Name: 5108026011
Alias Type: APN
Alias Name: 5108026012
Alias Type: APN
Alias Name: 5108026013
Alias Type: APN
Alias Name: 5108026014
Alias Type: APN
Alias Name: 5108026023
Alias Type: APN
Alias Name: 5108026029
Alias Type: APN
Alias Name: 5108026033
Alias Type: APN
Alias Name: 5108026034
Alias Type: APN
Alias Name: 5108026035
Alias Type: APN
Alias Name: 5108026900
Alias Type: APN
Alias Name: 304591
Alias Type: Project Code (Site Code)
Alias Name: 60000819
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/09/2009
Comments: DTSC finalized the NOE concurrent with approval of the RAW for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 08/18/2009
Comments: Rec'd signed agreement from district

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/03/2010
Comments: DTSC certified that the response action according to the DTSC-approved RAW is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/03/2010
Comments: DTSC prepared a project close out Cost Recovery Unit Memorandum

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/13/2008

CENTRAL REGION ELEMENTARY SCHOOL #21 (Continued) **S108974319**

Comments: Phase I submitted for background information. Project Scoping document to follow

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 05/15/2008
Comments: DTSC approved the PEA scoping document with comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/16/2008
Comments: DTSC approved the PEA with a Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/10/2009
Comments: DTSC approved the RAW for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/05/2009
Comments: DTSC approved the fact sheet

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 02/24/2009
Comments: DTSC accepted the community profile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/24/2009
Comments: DTSC approved the public notice

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/03/2010
Comments: DTSC approved the Removal Action Completion Report with a No Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 07/28/2009
Comments: signed 4.15 sent to district

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

CENTRAL REGION ELEMENTARY SCHOOL #21 (Continued) **S108974319**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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33 WSW 1/2-1 0.572 mi. 3018 ft.

JEFFERSON NEW ELEMENTARY SCHOOL NO. 2
MCKINLEY AVENUE/42ND STREET
LOS ANGELES, CA 90011

ENVIROSTOR SCH **S105628480 N/A**

Relative: Lower

Actual: 194 ft.

ENVIROSTOR:
Facility ID: 19010029
Status: No Further Action
Status Date: 08/06/2002
Site Code: 304269
Site Type: School Investigation
Site Type Detailed: School
Acres: 4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 53
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: DDD DDE DDT
Confirmed COC: 30006-NO 30007-NO 30008-NO
Potential Description: SOIL
Alias Name: JEFFERSON NEW ELEMENTARY SCH. #2 (PROP)
Alias Type: Alternate Name
Alias Name: JEFFERSON NEW ELEMENTARY SCHOOL #2
Alias Type: Alternate Name
Alias Name: LAUSD-JEFFERSON NEW ELEMENTARY NO. 2
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304269
Alias Type: Project Code (Site Code)
Alias Name: 19010029
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/06/2002
Comments: Not reported

JEFFERSON NEW ELEMENTARY SCHOOL NO. 2 (Continued) **S105628480**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/06/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/11/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/29/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 11/06/2001
Comments: PEA workplan accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19010029
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304269
Assembly: 53
Senate: 30

JEFFERSON NEW ELEMENTARY SCHOOL NO. 2 (Continued) **S105628480**

Special Program Status:	Not reported
Status:	No Further Action
Status Date:	08/06/2002
Restricted Use:	NO
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	DDD, DDE, DDT
Confirmed COC:	30006-NO, 30007-NO, 30008-NO
Potential Description:	SOIL
Alias Name:	JEFFERSON NEW ELEMENTARY SCH. #2 (PROP)
Alias Type:	Alternate Name
Alias Name:	JEFFERSON NEW ELEMENTARY SCHOOL #2
Alias Type:	Alternate Name
Alias Name:	LAUSD-JEFFERSON NEW ELEMENTARY NO. 2
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	304269
Alias Type:	Project Code (Site Code)
Alias Name:	19010029
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	08/06/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/06/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	05/11/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	03/29/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Workplan
Completed Date:	11/06/2001
Comments:	PEA workplan accepted
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

JEFFERSON NEW ELEMENTARY SCHOOL NO. 2 (Continued) **S105628480**

Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

34
ENE
1/2-1
0.575 mi.
3037 ft.

LOS ANGELES FOOD CENTER
2652 LONG BEACH AVENUE
VERNON, CA 90058

ENVIROSTOR **S117038654**
VCP **N/A**

Relative:
Higher

Actual:
215 ft.

ENVIROSTOR:

Facility ID:	60001206
Status:	Active
Status Date:	07/11/2014
Site Code:	301665
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	9.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jessy Fierro
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	59
Senate:	33
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.0135
Longitude:	-118.2430
APN:	NONE SPECIFIED
Past Use:	FOUNDRY, MANUFACTURING - METAL
Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	SOIL
Alias Name:	Berg Metal
Alias Type:	Alternate Name
Alias Name:	Gold Star
Alias Type:	Alternate Name
Alias Name:	301353
Alias Type:	Site Code - Historical
Alias Name:	301353
Alias Type:	Project Code (Site Code)
Alias Name:	301665
Alias Type:	Project Code (Site Code)
Alias Name:	60001206

LOS ANGELES FOOD CENTER (Continued) **S117038654**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/12/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 05/22/2009
Comments: DTSC conducted soil and soil gas sasmpling at this property as part of a Discovery project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Work Plan
Completed Date: 10/31/2008
Comments: Workplan approved for soil and soil gas sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/06/2014
Comments: Site Characterization Report has been approved. Due to elevated concentrations of lead, DTSC will required a land use covenant to restrict the property to commercial/industrial use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/31/2014
Comments: Completed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 03/24/2016
Schedule Revised Date: Not reported

VCP:

Facility ID: 60001206
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 9.3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jessy Fierro

LOS ANGELES FOOD CENTER (Continued) **S117038654**

Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Site Code:	301665
Assembly:	59
Senate:	33
Special Programs Code:	Not reported
Status:	Active
Status Date:	07/11/2014
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.0135 / -118.2430
APN:	NONE SPECIFIED
Past Use:	FOUNDRY, MANUFACTURING - METAL
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	Berg Metal
Alias Type:	Alternate Name
Alias Name:	Gold Star
Alias Type:	Alternate Name
Alias Name:	301353
Alias Type:	Site Code - Historical
Alias Name:	301353
Alias Type:	Project Code (Site Code)
Alias Name:	301665
Alias Type:	Project Code (Site Code)
Alias Name:	60001206
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	11/12/2015
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	05/22/2009
Comments:	DTSC conducted soil and soil gas sasmpling at this property as part of a Discovery project.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Work Plan
Completed Date:	10/31/2008
Comments:	Workplan approved for soil and soil gas sampling.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	11/06/2014
Comments:	Site Characterization Report has been approved. Due to elevated concentrations of lead, DTSC will required a land use covenant to restrict the property to commercial/industrial use.

Completed Area Name:	PROJECT WIDE

LOS ANGELES FOOD CENTER (Continued) **S117038654**

Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/31/2014
Comments: Completed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 03/24/2016
Schedule Revised Date: Not reported

F35 NNE 1/2-1 0.577 mi. 3048 ft. | **STUART F COOPER CO** | **RCRA-SQG** | **1000156369**
1565 AND 1570 E 23RD ST | **ENVIROSTOR** | **CAD981664477**
LOS ANGELES, CA 90011 | **EMI**

Site 1 of 2 in cluster F

Relative: Higher

Actual: 221 ft.

RCRA-SQG:
Date form received by agency: 12/12/1994
Facility name: STUART F COOPER CO
Facility address: 1565 AND 1570 E 23RD ST
LOS ANGELES, CA 90011
EPA ID: CAD981664477
Contact: MARTIN GOYMERAC
Contact address: PO BOX 11306
LOS ANGELES, CA 900110306
Contact country: US
Contact telephone: (213) 747-7141
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: MONTE JUSTESEN
Owner/operator address: 169 GRETNA GREEN WY
LOS ANGELES, CA 90049
Owner/operator country: Not reported
Owner/operator telephone: (310) 476-3909
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No

STUART F COOPER CO (Continued) **1000156369**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 71002904
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.01734
Longitude: -118.2468
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981664477
Alias Type: EPA Identification Number
Alias Name: 71002904
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

STUART F COOPER CO (Continued) **1000156369**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	14553
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

F36 **NEVIN AVENUE ELEMENTARY** **ENVIROSTOR** **S107736873**
NNE **1569 EAST 32ND AVENUE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90011**
0.577 mi.
3048 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
221 ft.

ENVIROSTOR:

Facility ID:	19820071
Status:	Inactive - Action Required
Status Date:	02/21/2013
Site Code:	304412
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Angela Garcia
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	59
Senate:	33
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.01343
Longitude:	-118.2477
APN:	900-012-908
Past Use:	METAL PLATING - CHROME, METAL PLATING - OTHER
Potential COC:	Arsenic Benzene Polynuclear aromatic hydrocarbons (PAHs Cadmium and compounds Copper and compounds Methylene chloride
Confirmed COC:	Arsenic Benzene Polynuclear aromatic hydrocarbons (PAHs Cadmium and compounds Copper and compounds Methylene chloride

NEVIN AVENUE ELEMENTARY (Continued) **S107736873**

Potential Description: SOIL, SV
Alias Name: LAUSD-NEVIN ELEM SCHOOL CONSTRUCTION
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: NEVIN AVENUE ELEMENTARY SCHOOL LAUSD
Alias Type: Alternate Name
Alias Name: 900-012-908
Alias Type: APN
Alias Name: 110013293701
Alias Type: EPA (FRS #)
Alias Name: 304016
Alias Type: Project Code (Site Code)
Alias Name: 304412
Alias Type: Project Code (Site Code)
Alias Name: 19820071
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/14/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/17/2000
Comments: Per daily log, WP APL finalized.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/03/2002
Comments: PEA Report Volume 1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/06/2002
Comments: RACR - Nevin Avenue Elmentary School

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 09/06/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo

NEVIN AVENUE ELEMENTARY (Continued) **S107736873**

Completed Date:	03/25/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19820071
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Angela Garcia
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304412
Assembly:	59
Senate:	33
Special Program Status:	Not reported
Status:	Inactive - Action Required
Status Date:	02/21/2013
Restricted Use:	NO
Funding:	School District
Latitude:	34.01343
Longitude:	-118.2477
APN:	900-012-908
Past Use:	METAL PLATING - CHROME, METAL PLATING - OTHER
Potential COC:	Arsenic, Benzene, Polynuclear aromatic hydrocarbons (PAHs, Cadmium and compounds, Copper and compounds, Methylene chloride
Confirmed COC:	Arsenic, Benzene, Polynuclear aromatic hydrocarbons (PAHs, Cadmium and compounds, Copper and compounds, Methylene chloride
Potential Description:	SOIL, SV
Alias Name:	LAUSD-NEVIN ELEM SCHOOL CONSTRUCTION
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	NEVIN AVENUE ELEMENTARY SCHOOL LAUSD
Alias Type:	Alternate Name
Alias Name:	900-012-908

NEVIN AVENUE ELEMENTARY (Continued) **S107736873**

Alias Type: APN
Alias Name: 110013293701
Alias Type: EPA (FRS #)
Alias Name: 304016
Alias Type: Project Code (Site Code)
Alias Name: 304412
Alias Type: Project Code (Site Code)
Alias Name: 19820071
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/14/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/18/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/17/2000
Comments: Per daily log, WP APL finalized.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/03/2002
Comments: PEA Report Volume 1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/06/2002
Comments: RACR - Nevin Avenue Elmentary School

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 09/06/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/25/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

NEVIN AVENUE ELEMENTARY (Continued) **S107736873**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

---

37 WNW 1/2-1 0.627 mi. 3313 ft. | **CRES #17 SITE 2 5640005** | **ENVIROSTOR SCH** | **S107736193 N/A**

33RD AVENUE TO THE NORTH, WADSWORTH AVENUE TO THE EAST, JEFF
LOS ANGELES, CA 90095

Relative: Higher

Actual: 205 ft.

ENVIROSTOR:

Facility ID:	60000078
Status:	Certified
Status Date:	08/25/2008
Site Code:	304493
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	3.02
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	59
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.01452
Longitude:	-118.2604
APN:	5114-017-001
Past Use:	RESIDENTIAL AREA
Potential COC:	Arsenic Benzene Acetone Antimony and compounds Barium and compounds Beryllium and compounds Cadmium and compounds Benz[a]anthracene Benzo[b]fluoranthene Benzo[a]pyrene Chrysene Fluoranthene Indeno[1,2,3-cd]pyrene
Confirmed COC:	Benz[a]anthracene Benzo[b]fluoranthene Benzo[a]pyrene Chrysene Fluoranthene Indeno[1,2,3-cd]pyrene Acetone Antimony and compounds Barium and compounds Beryllium and compounds Cadmium and compounds Arsenic Benzene
Potential Description:	SOIL, SV
Alias Name:	LAUSD-CRES #17 SITE 2 5640005
Alias Type:	Alternate Name
Alias Name:	5114-017-001
Alias Type:	APN
Alias Name:	110033616521
Alias Type:	EPA (FRS #)
Alias Name:	304493
Alias Type:	Project Code (Site Code)
Alias Name:	60000078

CRES #17 SITE 2 5640005 (Continued) **S107736193**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 07/03/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/18/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/09/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/16/2008
Comments: All the work has been completed and certified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/15/2008
Comments: project is now complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/09/2005
Comments: Concurred with SOW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/19/2005
Comments: FA for high PB; also need SSI for LBP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/03/2005
Comments: FA for PB impacts; 35 cy.

Completed Area Name: PROJECT WIDE

CRES #17 SITE 2 5640005 (Continued) **S107736193**

Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 06/13/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/20/2007
Comments: RAW approval for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/09/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 06/28/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/03/2007
Comments: DTSC concurred by email.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/11/2008
Comments: The RACR was approved with two minor comments, which were later addressed by LAUSD.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60000078
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3.02
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program

CRES #17 SITE 2 5640005 (Continued) **S107736193**

Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304493
Assembly:	59
Senate:	30
Special Program Status:	Not reported
Status:	Certified
Status Date:	08/25/2008
Restricted Use:	NO
Funding:	School District
Latitude:	34.01452
Longitude:	-118.2604
APN:	5114-017-001
Past Use:	RESIDENTIAL AREA
Potential COC:	Arsenic, Benzene, Acetone, Antimony and compounds, Barium and compounds, Beryllium and compounds, Cadmium and compounds, Benz[a]anthracene, Benzo[b]fluoranthene, Benzo[a]pyrene, Chrysene, Fluoranthene, Indeno[1,2,3-cd]pyrene
Confirmed COC:	Benz[a]anthracene, Benzo[b]fluoranthene, Benzo[a]pyrene, Chrysene, Fluoranthene, Indeno[1,2,3-cd]pyrene, Acetone, Antimony and compounds, Barium and compounds, Beryllium and compounds, Cadmium and compounds, Arsenic, Benzene
Potential Description:	SOIL, SV
Alias Name:	LAUSD-CRES #17 SITE 2 5640005
Alias Type:	Alternate Name
Alias Name:	5114-017-001
Alias Type:	APN
Alias Name:	110033616521
Alias Type:	EPA (FRS #)
Alias Name:	304493
Alias Type:	Project Code (Site Code)
Alias Name:	60000078
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	School Cleanup Agreement
Completed Date:	07/03/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	02/18/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	06/09/2005

CRES #17 SITE 2 5640005 (Continued) **S107736193**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/16/2008
Comments: All the work has been completed and certified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/15/2008
Comments: project is now complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/09/2005
Comments: Concurred with SOW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/19/2005
Comments: FA for high PB; also need SSI for LBP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/03/2005
Comments: FA for PB impacts; 35 cy.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 06/13/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/20/2007
Comments: RAW approval for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/09/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 06/28/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE

CRES #17 SITE 2 5640005 (Continued) **S107736193**

Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/03/2007
Comments:	DTSC concurred by email.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	01/11/2008
Comments:	The RACR was approved with two minor comments, which were later addressed by LAUSD.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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38 **C & M METALS INC** **ENVIROSTOR** **S108054394**
NE **1709 E 24TH ST** **PROC** **N/A**
1/2-1 **LOS ANGELES, CA 90058**
0.644 mi.
3400 ft.

Relative:
Higher

Actual:
219 ft.

ENVIROSTOR:

Facility ID:	60000315
Status:	Inactive - Action Required
Status Date:	06/01/2005
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	unknown
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Rita Kamat
Division Branch:	Cleanup Chatsworth
Assembly:	59
Senate:	30
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	34.01535
Longitude:	-118.2423
APN:	5167015013
Past Use:	UNKNOWN
Potential COC:	Lead, Organic (tetraethyl lead
Confirmed COC:	30343-NO
Potential Description:	SOIL
Alias Name:	5167015013
Alias Type:	APN
Alias Name:	60000315

C & M METALS INC (Continued) **S108054394**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/19/2006
Comments: EPA APPROVAL BY MATT MITGUARD (PROJECT OFFICER)

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

PROC:
Reg Id: 60821
Cert Id: PR60821.001
Organization Id: 60821
Organization Name: C & M Metals Inc
Mailing Address: 1709 E 24th St
Mailing City: LOS ANGELES
Mailing State: CA
Mailing Zip Code: 90058
Website: Not reported
Email: kathies@cmmetals.net
Phone Number: (323) 234-4662x102
Grand Father: N/A
Rural: N/A
Operation Begin Date: 11/20/2014
Aluminium: Y
Glass: Y
Plastic: Y
Bimetal: Y
Agency: N/A
Monday Hours Of Operation: 8:00 am - 4:30 pm
Tuesday Hours Of Operation: 8:00 am - 4:30 pm
Wednesday Hours Of Operation: 8:00 am - 4:30 pm
Thursday Hours Of Operation: 8:00 am - 4:30 pm
Friday Hours Of Operation: 8:00 am - 4:30 pm
Saturday Hours Of Operation: 8:00 am - 3:30 pm
Sunday Hours Of Operation: CLOSED

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39 East 1/2-1 0.672 mi. 3549 ft. | **PIMA ALAMEDA PROPERTIES, LLC**
4051 SOUTH ALAMEDA STREET
LOS ANGELES, CA 90058 | **ENVIROSTOR VCP** | **S118353717 N/A**

Relative: Higher
Actual: 207 ft.

ENVIROSTOR:
Facility ID: 60002227
Status: Active
Status Date: 08/27/2015
Site Code: 301716

PIMA ALAMEDA PROPERTIES, LLC (Continued) **S118353717**

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Haissam Salloum
Supervisor: Sayareh Amirebrahimi
Division Branch: Cleanup Chatsworth
Assembly: 51
Senate: 25
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: N/A
Alias Type: Former Project ID
Alias Name: 301716
Alias Type: Project Code (Site Code)
Alias Name: 60002227
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/05/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 12/28/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/09/2015
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

PIMA ALAMEDA PROPERTIES, LLC (Continued) **S118353717**

VCP:

Facility ID:	60002227
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Haissam Salloum
Supervisor:	Sayareh Amirebrahimi
Division Branch:	Cleanup Chatsworth
Site Code:	301716
Assembly:	51
Senate:	25
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	08/27/2015
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	0 / 0
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	N/A
Alias Type:	Former Project ID
Alias Name:	301716
Alias Type:	Project Code (Site Code)
Alias Name:	60002227
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	01/05/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	12/28/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	09/09/2015
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported

PIMA ALAMEDA PROPERTIES, LLC (Continued) **S118353717**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

40
NW
1/2-1
0.729 mi.
3851 ft.

THE CROSSINGS AT 29TH STREET, PHASE A **ENVIROSTOR** **S110121731**
2901-2907 GRIFFITH AVENUE & 816-850 E. 29TH STREET **N/A**
LOS ANGELES, CA 90011

Relative:
Higher

Actual:
211 ft.

ENVIROSTOR:
Facility ID: 60001221
Status: No Further Action
Status Date: 09/25/2012
Site Code: 301522
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 1.67
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 30
Special Program: Polanco Redevelopment MOA
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.01712
Longitude: -118.2592
APN: NONE SPECIFIED
Past Use: DRY CLEANING, MANUFACTURING - OTHER
Potential COC: Asbestos Containing Materials (ACM Lead Tetrachloroethylene (PCE
Confirmed COC: Tetrachloroethylene (PCE Asbestos Containing Materials (ACM Lead
Potential Description: CSS, SOIL, SV
Alias Name: 301522
Alias Type: Project Code (Site Code)
Alias Name: 60001221
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consultative Service Agreement
Completed Date: 03/29/2011
Comments: Executed on 3/29/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/26/2011
Comments: Ok

Completed Area Name: PROJECT WIDE

THE CROSSINGS AT 29TH STREET, PHASE A (Continued) **S110121731**

Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 01/05/2011
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/28/2011
Comments: Done

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 09/28/2009
Comments: Approved by TY.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/14/2011
Comments: Documents submmitted on 2/11/2011 per DTSC request.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/25/2012
Comments: Issued NFA letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 09/25/2012
Comments: Issued NFA Letter

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

41
NE
1/2-1
0.767 mi.
4050 ft.

SHELL OIL CO. - LOS ANGELES PLANT
2015 LONG BEACH AVENUE
LOS ANGELES, CA 90058

ENVIROSTOR **S106387181**
SLIC **N/A**
HAZNET
LA Co. Site Mitigation

Relative:
Higher

Actual:
225 ft.

ENVIROSTOR:
Facility ID: 71002134
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit

SHELL OIL CO. - LOS ANGELES PLANT (Continued) **S106387181**

Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.01869
Longitude: -118.2437
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD001687557
Alias Type: EPA Identification Number
Alias Name: 110000474031
Alias Type: EPA (FRS #)
Alias Name: 71002134
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 09/16/2002
Global Id: SL377482486
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.01772
Longitude: -118.241968
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 1002

SHELL OIL CO. - LOS ANGELES PLANT (Continued) **S106387181**

File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: No further action required
SLIC: 1002
Substance: TPH/BTEX
Staff: CO

HAZNET:
envid: S106387181
Year: 2013
GEPAID: CAC002720695
Contact: BRIAN DECKER
Telephone: 6264442691
Mailing Name: Not reported
Mailing Address: 1903 DURFEE AVE
Mailing City,St,Zip: SOUTH EL MONTE, CA 91733
Gen County: Los Angeles
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 6.255
Cat Decode: Not reported
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Not reported

LA Co. Site Mitigation:
Facility ID: FA0016493
Site ID: SD0010397
Jurisdiction: State
Case ID: RO0010397
Abated: Yes
Assigned To: GB
Entered Date: 05/11/2004

42
NW
1/2-1
0.844 mi.
4455 ft.

LA UNI SCH DIST, TWENTY-EIGHTH **ENVIROSTOR** **S105722040**
2807 STANFORD AV **SCH** **N/A**
LOS ANGELES, CA 90011 **EMI**

Relative:
Higher

Actual:
214 ft.

ENVIROSTOR:
Facility ID: 19820125
Status: Active
Status Date: 04/23/2004
Site Code: 304448
Site Type: School Cleanup

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Site Type Detailed:	School
Acres:	18.7
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Ivy Osornio
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	59
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.01890
Longitude:	-118.2618
APN:	5128016904, 5128016910
Past Use:	UNKNOWN
Potential COC:	Lead Tetrachloroethylene (PCE
Confirmed COC:	Tetrachloroethylene (PCE Lead
Potential Description:	SOIL
Alias Name:	LAUSD-28TH STREET ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	5128016904
Alias Type:	APN
Alias Name:	5128016910
Alias Type:	APN
Alias Name:	304448
Alias Type:	Project Code (Site Code)
Alias Name:	19820125
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	09/01/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	12/31/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	04/22/2008
Comments:	Submitted response letter to LAUSD in response to Palace Plating Impacts at the school.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/11/2008
Comments: DTSC issued an update on environmental activities. The letter recommends that LAUSD implement updated measures to address the persistent indoor PCE air impacts.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/15/2008
Comments: Issued a revised environmental update letter to the parents faculty and staff of 28th Street Elementary School.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Substantial Endangerment Order
Completed Date: 04/16/2008
Comments: A Imminent and Substantial Endangerment Determination (ISED)Order was issued. The ISED Order was issued to the the responsible parties for the purpose of investigation and remediation of releases of hazardous substances at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/23/2004
Comments: DTSC conducted wipe and soil sampling at the school. Results indicate no hex chrome present on surfaces. LAUSD should do housekeeping for lead.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/23/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/10/2006
Comments: Document not finalized due to financial constraints. Based on findings, additional investigation for potential indoor air threats required in phased approach to be documented in a PEA Equivalent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/22/2006
Comments: Soil gas analysis was conducted on 12/22/06.

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 01/11/2007
Comments: Issued comments and approved the Indoor Air Sampling and Analysis Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/02/2008
Comments: Approved the FSI/SFSI Report. The FSI/SFSI was prepared to document historical investigation activities conducted to evaluate potential environmental impacts associated with historical onsite and off-site activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/22/2007
Comments: Issued an response to the community comments and concerns.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/30/2007
Comments: DTSC reviewed and concurred with the Focus Supplemental Site Investigation via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/04/2007
Comments: The response to community letter issued on March 26, 2007 was translated from English to Spanish.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/12/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/14/2007
Comments: Conducted site visit to observe crawlspace and indoor air summa canisters sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/13/2007
Comments: Reviewed and approved the Indoor Air Sampling Plan via electronic mail.

Completed Area Name: PROJECT WIDE

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 08/16/2007
Comments: Approved the Indoor Air Sampling and Analysis Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 08/20/2007
Comments: Approved the Soil Vapor Sampling Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/16/2007
Comments: 10/16/07

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/22/2007
Comments: Approved the Data Submittal Memorandum (DSM)on October 22, 2007. The DSM was prepared to assess the heating, ventilation, and air conditioning (HVAC)modifications effectiveness.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/19/2008
Comments: Received the Indoor Air Sampling and Anaylisis Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/21/2008
Comments: Approved the Quaterley Indoor Air Sampling Plan via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/12/2009
Comments: O&M Plan approved on March 12, 2009

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/20/2008
Comments: Reviewed the Indoor air Sampling & Analysis Report (B3 & B4).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/21/2008
Comments: Approved the IASAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Document Type: Other Report
Completed Date: 07/21/2008
Comments: Approved the 2nd Quarter Indoor Air Sampling and Analysis Report. Bungalow B-2 will be re-sampled and bungalows B-3 & B-4 will remain unoccupied until mitigation measures reduce PCE levels below the DTSC action level of 3 ug/m3.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/22/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/02/2011
Comments: DTSC concurs with the recommendations and approves the document as final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/04/2010
Comments: DTSC concurs with the Indoor Air Sampling Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/21/2010
Comments: DTSC recommends not occupying classrooms B3 and B4 until consisten monitoring shows concentrations below action levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/12/2011
Comments: Report concurrence letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/12/2011
Comments: Report concurrence letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/25/2011
Comments: DTSC letter completed concurring w/ recommendation to reduce the indoor air sampling from quarterly to annually.

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/17/2013
Comments: DTSC approved the O&M report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/23/2015
Comments: DTSC reviewed the report and finds that the Site is still safe for occupancy

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/11/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/11/2006
Comments: LAUSD requested DTSC assistance in evaluating three stockpiles generated as part of a playground re-paving project. District contractor generated and stockpiled approximately 650 cy of soil. Two stockpiles were classified as non-haz and one stockpile was classified as CA hazardous waste due to high STLC conc.s for lead. In addition, district contractor buried some of CA waste on site. DTSC advised LUASD to remove stockpiles ASAP and investigate potential sources of contamination extent of in-situ contamination.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19820125
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 18.7
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Ivy Osornio
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304448
Assembly: 59
Senate: 30
Special Program Status: Not reported
Status: Active
Status Date: 04/23/2004
Restricted Use: NO
Funding: School District
Latitude: 34.01890
Longitude: -118.2618
APN: 5128016904, 5128016910
Past Use: UNKNOWN
Potential COC: Lead, Tetrachloroethylene (PCE
Confirmed COC: Tetrachloroethylene (PCE, Lead
Potential Description: SOIL
Alias Name: LAUSD-28TH STREET ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 5128016904
Alias Type: APN
Alias Name: 5128016910
Alias Type: APN
Alias Name: 304448
Alias Type: Project Code (Site Code)
Alias Name: 19820125
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 09/01/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 12/31/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/22/2008
Comments: Submitted response letter to LAUSD in response to Palace Plating Impacts at the school.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/11/2008
Comments: DTSC issued an update on environmental activities. The letter recommends that LAUSD implement updated measures to address the persistent indoor PCE air impacts.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/15/2008
Comments: Issued a revised environmental update letter to the parents faculty and staff of 28th Street Elementary School.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Substantial Endangerment Order
Completed Date: 04/16/2008
Comments: A Imminent and Substantial Endangerment Determination (ISED)Order was issued. The ISED Order was issued to the the responsible parties for the purpose of investigation and remediation of releases of hazardous substances at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/23/2004
Comments: DTSC conducted wipe and soil sampling at the school. Results indicate no hex chrome present on surfaces. LAUSD should do housekeeping for lead.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/23/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/10/2006
Comments: Document not finalized due to financial constraints. Based on findings, additional investigation for potential indoor air threats required in phased approach to be documented in a PEA Equivalent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/22/2006
Comments: Soil gas analysis was conducted on 12/22/06.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 01/11/2007
Comments: Issued comments and approved the Indoor Air Sampling and Analysis Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/02/2008
Comments: Approved the FSI/SFSI Report. The FSI/SFSI was prepared to document historical investigation activities conducted to evaluate potential environmental impacts associated with historical onsite and off-site activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/22/2007
Comments: Issued an response to the community comments and concerns.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/30/2007
Comments: DTSC reviewed and concurred with the Focus Supplemental Site Investigation via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/04/2007
Comments: The response to community letter issued on March 26, 2007 was translated from English to Spanish.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/12/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Document Type: Fieldwork
Completed Date: 04/14/2007
Comments: Conducted site visit to observe crawlspace and indoor air summa canisters sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/13/2007
Comments: Reviewed and approved the Indoor Air Sampling Plan via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 08/16/2007
Comments: Approved the Indoor Air Sampling and Analysis Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 08/20/2007
Comments: Approved the Soil Vapor Sampling Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/16/2007
Comments: 10/16/07

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/22/2007
Comments: Approved the Data Submittal Memorandum (DSM)on October 22, 2007. The DSM was prepared to assess the heating, ventilation, and air conditioning (HVAC)modifications effectiveness.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/19/2008
Comments: Received the Indoor Air Sampling and Anaylisis Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/21/2008
Comments: Approved the Quaterley Indoor Air Sampling Plan via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/12/2009
Comments: O&M Plan approved on March 12, 2009

Completed Area Name: PROJECT WIDE

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/20/2008
Comments: Reviewed the Indoor air Sampling & Analysis Report (B3 & B4).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/21/2008
Comments: Approved the IASAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/21/2008
Comments: Approved the 2nd Quarter Indoor Air Sampling and Analysis Report. Bungalow B-2 will be re-sampled and bungalows B-3 & B-4 will remain unoccupied until mitigation measures reduce PCE levels below the DTSC action level of 3 ug/m3.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/22/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/02/2011
Comments: DTSC concurs with the recommendations and approves the document as final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/04/2010
Comments: DTSC concurs with the Indoor Air Sampling Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/21/2010
Comments: DTSC recommends not occupying classrooms B3 and B4 until consisten monitoring shows concentrations below action levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/12/2011
Comments: Report concurrence letter completed.

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/12/2011
Comments: Report concurrence letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/25/2011
Comments: DTSC letter completed concurring w/ recommendation to reduce the indoor air sampling from quarterly to annually.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/17/2013
Comments: DTSC approved the O&M report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/23/2015
Comments: DTSC reviewed the report and finds that the Site is still safe for occupancy

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/11/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/11/2006
Comments: LAUSD requested DTSC assistance in evaluating three stockpiles generated as part of a playground re-paving project. District contractor generated and stockpiled approximately 650 cy of soil. Two

LA UNI SCH DIST, TWENTY-EIGHTH (Continued) **S105722040**

stockpiles were classified as non-haz and one stockpile was classified as CA hazardous waste due to high STLC conc.s for lead. In addition, district contractor buried some of CA waste on site. DTSC advised LUASD to remove stockpiles ASAP and investigate potential sources of contamination extent of in-situ contamination.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	72776
Air District Name:	SC
SIC Code:	8211
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

G43 **LOS ANGELES MEDICAL DEPOT** **FUDS** **1009484707**
NE **N/A**
1/2-1 **LOS ANGELES, CA**
0.847 mi.
4473 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
224 ft.

FUDS:

Federal Facility ID:	CA9799F5509
FUDS #:	J09CA0454
INST ID:	61120
Facility Name:	LOS ANGELES MEDICAL DEPOT
City:	LOS ANGELES
State:	CA
EPA Region:	09
County:	LOS ANGELES
Congressional District:	40
US Army District:	Los Angeles District (SPL)
Fiscal Year:	2013
Telephone:	213-452-3920
NPL Status:	Not Listed
RAB:	Not reported
CTC:	118
Current Owner:	Not reported

LOS ANGELES MEDICAL DEPOT (Continued) **1009484707**

Current Prog:	Not reported
Future Prog:	Not reported
Acreage:	Not reported
Description:	This 3.61-acre site is located in downtown Los Angeles, California, on the south side of 20th Street between Long Beach Boulevard and Alameda Street, and at the northeast corner of the intersection of 20th and McGarry Street, in the County of Los Angeles. The property is owned by several private entities.
History:	In April 1942, the Army acquired 3.45 acres in downtown Los Angeles by lease from the Mack International Motor Truck Company for use as a medical depot. An additional 0.16 acres located across the street at the northeast corner of 20th and McGarry was obtained by lease from the City of Los Angeles.
Latitude:	-118.240997314
Longitude:	34.018100738500
Federal Facility ID:	CA9799F5509
FUDS #:	J09CA0454
INST ID:	61120
Facility Name:	LOS ANGELES MEDICAL DEPOT
City:	LOS ANGELES
State:	CA
EPA Region:	09
County:	LOS ANGELES
Congressional District:	40
US Army District:	Los Angeles District (SPL)
Fiscal Year:	2013
Telephone:	213-452-3920
NPL Status:	Not Listed
RAB:	Not reported
CTC:	118
Current Owner:	Not reported
Current Prog:	Not reported
Future Prog:	Not reported
Acreage:	Not reported
Description:	This 3.61-acre site is located in downtown Los Angeles, California, on the south side of 20th Street between Long Beach Boulevard and Alameda Street, and at the northeast corner of the intersection of 20th and McGarry Street, in the County of Los Angeles. The property is owned by several private entities.
History:	In April 1942, the Army acquired 3.45 acres in downtown Los Angeles by lease from the Mack International Motor Truck Company for use as a medical depot. An additional 0.16 acres located across the street at the northeast corner of 20th and McGarry was obtained by lease from the City of Los Angeles.
Latitude:	-118.240997314
Longitude:	34.018100738500

G44 **LA MED DEPOT** **ENVIROSTOR** **S107736569**
NE **N/A**
1/2-1 **LOS ANGELES, CA**
0.849 mi.
4484 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
224 ft.

ENVIROSTOR:

Facility ID:	80000307
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation

LA MED DEPOT (Continued) **S107736569**

Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 59
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 34.01805
Longitude: -118.2405
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F550900
Alias Type: Federal Facility ID
Alias Name: J09CA0454
Alias Type: INPR
Alias Name: 80000307
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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45 **SHELMAC CORP** **SEMS-ARCHIVE** **1000289756**
NNE **1440 E WALNUT ST** **RCRA-SQG** **CAD070214895**
1/2-1 **LOS ANGELES, CA 90011** **ENVIROSTOR**
0.876 mi. **FINDS**
4625 ft. **LA Co. Site Mitigation**
ECHO

Relative:
Higher

Actual:
229 ft.

SEMS-ARCHIVE:
Site ID: 901551
EPA ID: CAD070214895
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SHELMAC CORP (Continued) **1000289756**

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0901551
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13289851.00000
Person ID:	13003854.00000
Contact Sequence ID:	13295446.00000
Person ID:	13003858.00000
Contact Sequence ID:	13301304.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	07/01/86
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	03/01/87
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	07/01/86
Date Completed:	03/01/87
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	SHELMAC CORP
Facility address:	1440 E WALNUT ST LOS ANGELES, CA 90011
EPA ID:	CAD070214895
Mailing address:	E WALNUT ST LOS ANGELES, CA 90011
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

SHELMAC CORP (Continued) **1000289756**

Owner/operator name: LATKIN ARNOLD
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 19340642
Status: Refer: Other Agency
Status Date: 08/15/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 30
Special Program: * Site Char & Assess Grant (CERCLA 104)
Restricted Use: NO

SHELMAC CORP (Continued) **1000289756**

Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.02147
Longitude: -118.2474
APN: 5129005021
Past Use: NONE SPECIFIED
Potential COC: * Sludge - Degreasing * Sludge - Paint * UNSPECIFIED SLUDGE WASTE * UNSPECIFIED SOLVENT MIXTURES
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 5129005021
Alias Type: APN
Alias Name: CAD070214895
Alias Type: CERCLIS ID
Alias Name: 19340642
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/07/1994
Comments: DATABASE VALIDATION PROJECT CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/11/1983
Comments: Facility Identified: LA Chamber of Commerce Bus Dir 1969.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:

Registry ID: 110002138696

Environmental Interest/Information System

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

SHELMAC CORP (Continued) **1000289756**

LA Co. Site Mitigation:

Facility ID:	Not reported
Site ID:	SD0010896
Jurisdiction:	County
Case ID:	RO0001131
Abated:	Not reported
Assigned To:	Not reported
Entered Date:	05/11/2004

ECHO:

Envid:	1000289756
Registry ID:	110002138696
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002138696

46
NE
1/2-1
0.897 mi.
4737 ft.

SHAMROCK IRON & METAL **ENVIROSTOR** **S103638975**
1949 S. ALAMEDA AVE. **N/A**
LOS ANGELES, CA 90058

Relative:
Higher

Actual:
225 ft.

ENVIROSTOR:

Facility ID:	60001672
Status:	No Further Action
Status Date:	01/27/1998
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	LOS ANGELES COUNTY
Lead Agency:	LOS ANGELES COUNTY
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	46
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	34.01884
Longitude:	-118.2401
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	Copper and compounds Lead, Organic (tetraethyl lead Nickel Zinc
Confirmed COC:	Lead, Organic (tetraethyl lead Copper and compounds Zinc Nickel
Potential Description:	NONE SPECIFIED
Alias Name:	60001672
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	01/27/1998
Comments:	Not reported

SHAMROCK IRON & METAL (Continued) **S103638975**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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47 NNE 1/2-1 0.903 mi. 4768 ft. | **FORMER GAP PRODUCTS SITE**
1460 EAST WASHINGTON BOULEVARD
LOS ANGELES, CA 90021 | **ENVIROSTOR VCP DEED** | **S103883824 N/A**

Relative: Higher

Actual: 229 ft.

ENVIROSTOR:

Facility ID:	19340775
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	12/13/2001
Site Code:	300786
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Assembly:	59
Senate:	30
Special Program:	Voluntary Cleanup Program
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.02188
Longitude:	-118.2464
APN:	5129-006-029, 5129006029
Past Use:	MANUFACTURED GAS PLANT
Potential COC:	Lead Chromium VI
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	FORMER GAP PRODUCTS SITE
Alias Type:	Alternate Name
Alias Name:	GAP PRODUCTS
Alias Type:	Alternate Name
Alias Name:	5129-006-029
Alias Type:	APN
Alias Name:	5129006029
Alias Type:	APN
Alias Name:	110033614532
Alias Type:	EPA (FRS #)
Alias Name:	300786
Alias Type:	Project Code (Site Code)
Alias Name:	19340775
Alias Type:	Envirostor ID Number

FORMER GAP PRODUCTS SITE (Continued) **S103883824**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/13/2001
Comments:	DTSC issued a No Further Action letter for the Site. Based upon the data presented in the PEA report and the recording of the Deed Restrictions, DTSC determined that the Site does not pose a threat to human health or the environment.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	11/13/2001
Comments:	DTSC received a confirmed copy of the recorded Deed Restriction for the subject site. The document was recorded with L.A. County Recorder, November 8, 2001.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	09/20/1999
Comments:	VCA executed on 9/20/1999 to provide review and comment on a Preliminary Endangerment Assessment (PEA) equivalent report. Site was formerly used as a foundry, auto parts rebuilder and most recently as a chrome plating shop. Owner has already con- ducted a removal action without DTSC oversight.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	19340775
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Site Code:	300786
Assembly:	59
Senate:	30
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified O&M - Land Use Restrictions Only

FORMER GAP PRODUCTS SITE (Continued) **S103883824**

Status Date:	12/13/2001
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	34.02188 / -118.2464
APN:	5129-006-029, 5129006029
Past Use:	MANUFACTURED GAS PLANT
Potential COC:	30013, 30153
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	FORMER GAP PRODUCTS SITE
Alias Type:	Alternate Name
Alias Name:	GAP PRODUCTS
Alias Type:	Alternate Name
Alias Name:	5129-006-029
Alias Type:	APN
Alias Name:	5129006029
Alias Type:	APN
Alias Name:	110033614532
Alias Type:	EPA (FRS #)
Alias Name:	300786
Alias Type:	Project Code (Site Code)
Alias Name:	19340775
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/13/2001
Comments:	DTSC issued a No Further Action letter for the Site. Based upon the data presented in the PEA report and the recording of the Deed Restrictions, DTSC determined that the Site does not pose a threat to human health or the environment.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	11/13/2001
Comments:	DTSC received a confirmed copy of the recorded Deed Restriction for the subject site. The document was recorded with L.A. County Recorder, November 8, 2001.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	09/20/1999
Comments:	VCA executed on 9/20/1999 to provide review and comment on a Preliminary Endangerment Assessment (PEA) equivalent report. Site was formerly used as a foundry, auto parts rebuilder and most recently as a chrome plating shop. Owner has already con- ducted a removal action without DTSC oversight.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported

FORMER GAP PRODUCTS SITE (Continued) **S103883824**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 19340775
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 11/13/2001

H48
NW
1/2-1
0.919 mi.
4851 ft.

Relative:
Higher

Actual:
213 ft.

PALACE PLATING
710 E. 29TH STREET.
LOS ANGELES, CA 90011

Site 1 of 2 in cluster H

SEMS-ARCHIVE **1000144057**
RCRA-LQG **CAD008271090**
ENVIROSTOR
SWEEPS UST
HIST UST
CA FID UST
US AIRS
EMI
HAZNET
WDS

SEMS-ARCHIVE:
Site ID: 901014
EPA ID: CAD008271090
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0901014
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13287675.00000
Person ID: 13003854.00000

Contact Sequence ID: 13293270.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299128.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: CLIFFORD PIERCE (OWNER)
Alias Address: Not reported
CA

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT
Date Started: 05/01/86

PALACE PLATING (Continued) **1000144057**

Date Completed: 01/01/87
Priority Level: Low priority for further assessment

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 07/01/88
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 07/01/88
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: DISCOVERY
Date Started: / /
Date Completed: 05/01/86
Priority Level: Not reported

RCRA-LQG:
Date form received by agency: 03/02/2012
Facility name: PALACE PLATING
Facility address: 710 E. 29TH STREET.
LOS ANGELES, CA 90011
EPA ID: CAD008271090
Mailing address: E. 29TH STREET.
LOS ANGELES, CA 90011
Contact: ROGER S PIERCE
Contact address: E. 29TH STREET.
LOS ANGELES, CA 90011
Contact country: US
Contact telephone: (323) 232-7263
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: PALACE PLATING
Owner/operator address: E. 29TH STREET.
LOS ANGELES, CA 90011
Owner/operator country: Not reported
Owner/operator telephone: (323) 232-7263
Legal status: Private
Owner/Operator Type: Operator

PALACE PLATING (Continued) **1000144057**

Owner/Op start date: 01/01/1953
Owner/Op end date: Not reported

Owner/operator name: PALACE PLATING
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1953
Owner/Op end date: Not reported

Owner/operator name: CLIFFORD R. PIERCE JR.
Owner/operator address: 710 E. 29TH STREET
LOS ANGELES, CA 90011
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1961
Owner/Op end date: Not reported

Owner/operator name: JOAN M. PIERCE
Owner/operator address: E. 29TH STREET.
LOS ANGELES, CA 90011
Owner/operator country: Not reported
Owner/operator telephone: (323) 232-7263
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/05/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F006

PALACE PLATING (Continued) **1000144057**

. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Historical Generators:
Date form received by agency: 08/25/2010
Site name: PALACE PLATING
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 02/22/2008
Site name: PALACE PLATING
Classification: Large Quantity Generator

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/22/2006
Site name: PALACE PLATING
Classification: Small Quantity Generator

Date form received by agency: 02/22/2006
Site name: PALACE PLATING
Classification: Large Quantity Generator

PALACE PLATING (Continued) **1000144057**

. Waste code: D006
. Waste name: CADMIUM

Date form received by agency: 02/26/2002
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: PALACE PLATING#
Classification: Large Quantity Generator

Date form received by agency: 03/26/1996
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 03/28/1994
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: PALACE PLATING#
Classification: Large Quantity Generator

Date form received by agency: 04/05/1990
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: PALACE PLATING#
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 109374800

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 109374800

PALACE PLATING (Continued) **1000144057**

Waste code: F006
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
Amount (Lbs): 109374800

Waste code: F008
Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
Amount (Lbs): 108840000

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/19/2010
Date achieved compliance: 08/19/2010
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/2010
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/25/2007
Date achieved compliance: 07/25/2007
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/25/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 07/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 60000

PALACE PLATING (Continued) **1000144057**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 03/09/2005
Date achieved compliance: 04/29/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

PALACE PLATING (Continued) **1000144057**

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 07/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 60000
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 04/09/1999
Date achieved compliance: 11/30/1999
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/02/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 04/09/1999
Date achieved compliance: 11/30/1999
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 11/02/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

PALACE PLATING (Continued) **1000144057**

Evaluation Action Summary:

Evaluation date:	08/19/2010
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	08/19/2010
Evaluation lead agency:	State
Evaluation date:	07/25/2007
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	07/25/2007
Evaluation lead agency:	State
Evaluation date:	04/06/2006
Evaluation:	NOT A SIGNIFICANT NON-COMPLIER
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	07/08/2005
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA
Evaluation date:	03/09/2005
Evaluation:	SIGNIFICANT NON-COMPLIER
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	03/09/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Tank System Standards
Date achieved compliance:	04/06/2006
Evaluation lead agency:	State
Evaluation date:	03/09/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	04/06/2006
Evaluation lead agency:	State
Evaluation date:	03/09/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - Records/Reporting
Date achieved compliance:	04/29/2005
Evaluation lead agency:	State
Evaluation date:	04/09/1999
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	11/30/1999
Evaluation lead agency:	EPA

ENVIROSTOR:

Facility ID: 71002166

PALACE PLATING (Continued) **1000144057**

Status:	Inactive - Needs Evaluation
Status Date:	06/01/2012
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	0.5
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Assembly:	59
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.01844
Longitude:	-118.2626
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD008271090
Alias Type:	EPA Identification Number
Alias Name:	110000473274
Alias Type:	EPA (FRS #)
Alias Name:	71002166
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase I Verification
Completed Date:	11/08/1999
Comments:	Inspection report sent on 11/8/1999
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Order
Completed Date:	10/29/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	12/12/2006
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

PALACE PLATING (Continued) **1000144057**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 2383
Number: Not reported
Board Of Equalization: 44-012338
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002383-000001
Tank Status: Not reported
Capacity: 600
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: 1

HIST UST:
File Number: 00027BC8
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027BC8.pdf
Region: STATE
Facility ID: 00000046985
Facility Type: Other
Other Type: ELECTRO-PLATING SHOP
Contact Name: CLIFFORD R. PIERCE JR.
Telephone: 2132327263
Owner Name: PALACE PLATING
Owner Address: 710 E. 29TH STREET
Owner City,St,Zip: LOS ANGELES, CA 90011
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1950
Tank Capacity: 00000600
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 4
Leak Detection: Visual

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 19028237
Regulated By: UTNKA
Regulated ID: 00046985
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2132327263
Mail To: Not reported
Mailing Address: 710 E 29TH ST
Mailing Address 2: Not reported

PALACE PLATING (Continued) **1000144057**

Mailing City,St,Zip: LOS ANGELES 900110000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

US AIRS MINOR:
Envid: 1000144057
Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
D and B Number: Not reported
Primary SIC Code: 3471
NAICS Code: 332813
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

PALACE PLATING (Continued) **1000144057**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-11-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-05-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Title V Permits
Activity Date: 1998-07-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Title V Permits
Activity Date: 1999-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Title V Permits
Activity Date: 2003-11-07 00:00:00

PALACE PLATING (Continued) **1000144057**

Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ173
Facility Registry ID:	110000473274
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	Title V Permits
Activity Date:	2008-05-23 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	22410

PALACE PLATING (Continued) **1000144057**

Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11

PALACE PLATING (Continued) **1000144057**

Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

PALACE PLATING (Continued) **1000144057**

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.05565
Reactive Organic Gases Tons/Yr:	0.05
Carbon Monoxide Emissions Tons/Yr:	0.0227
NOX - Oxides of Nitrogen Tons/Yr:	0.0845
SOX - Oxides of Sulphur Tons/Yr:	0.000539
Particulate Matter Tons/Yr:	0.0064164
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2005
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471

PALACE PLATING (Continued) **1000144057**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.017300625
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.01320311875

Year:	2006
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.003
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.00057

Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.003
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.00057

Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0

PALACE PLATING (Continued) **1000144057**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.003290543754
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.00062520331326

Year:	2009
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.01204033
Part. Matter 10 Micrometers & Smllr Tons/Yr:	9.9876627000000003E-3

Year:	2011
County Code:	19
Air Basin:	SC
Facility ID:	22410
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.0032124041295
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.0006103567846

HAZNET:

envid:	1000144057
Year:	2012
GEPAID:	CAD008271090
Contact:	CLIFF PIERCE
Telephone:	3232327263
Mailing Name:	Not reported
Mailing Address:	710 E 29TH ST
Mailing City,St,Zip:	LOS ANGELES, CA 900112014
Gen County:	Los Angeles
TSD EPA ID:	NVD980895338
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Cyanide Destruction With Or Without Precipitation
Tons:	0.165
Cat Decode:	Not reported
Method Decode:	Cyanide Destruction With Or Without Precipitation
Facility County:	Los Angeles

PALACE PLATING (Continued) **1000144057**

envid: 1000144057
Year: 2012
GEPAID: CAD008271090
Contact: CLIFF PIERCE
Telephone: 3232327263
Mailing Name: Not reported
Mailing Address: 710 E 29TH ST
Mailing City,St,Zip: LOS ANGELES, CA 900112014
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Not reported
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 3.44025
Cat Decode: Not reported
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: 1000144057
Year: 2012
GEPAID: CAD008271090
Contact: CLIFF PIERCE
Telephone: 3232327263
Mailing Name: Not reported
Mailing Address: 710 E 29TH ST
Mailing City,St,Zip: LOS ANGELES, CA 900112014
Gen County: Los Angeles
TSD EPA ID: NVD980895338
TSD County: 99
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.02085
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1000144057
Year: 2012
GEPAID: CAD008271090
Contact: CLIFF PIERCE
Telephone: 3232327263
Mailing Name: Not reported
Mailing Address: 710 E 29TH ST
Mailing City,St,Zip: LOS ANGELES, CA 900112014
Gen County: Los Angeles
TSD EPA ID: AZD081705402
TSD County: 99
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.825
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

PALACE PLATING (Continued) **1000144057**

(H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1000144057
Year: 2012
GEPAID: CAD008271090
Contact: CLIFF PIERCE
Telephone: 3232327263
Mailing Name: Not reported
Mailing Address: 710 E 29TH ST
Mailing City,St,Zip: LOS ANGELES, CA 900112014
Gen County: Los Angeles
TSD EPA ID: AZD081705402
TSD County: 99
Waste Category: Not reported
Disposal Method: Not reported
Tons: 0.0075
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
71 additional CA_HAZNET: record(s) in the EDR Site Report.

WDS:
Facility ID: 4 19I001799
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4
Facility Telephone: 3232327263
Facility Contact: CLIFFORD R PIERCE
Agency Name: PALACE PLATING
Agency Address: 710 E 29th St
Agency City,St,Zip: Los Angeles 900112087
Agency Contact: CLIFFORD R PIERCE
Agency Telephone: 3232327263
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported

PALACE PLATING (Continued) **1000144057**

POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

H49
NW
1/2-1
0.919 mi.
4851 ft.

Relative:
Higher

Actual:
213 ft.

PALACE PLATING
710 29TH
LOS ANGELES, CA 90011

Site 2 of 2 in cluster H

RESPONSE **S105024737**
ENVIROSTOR **N/A**
Cortese
HIST CORTESE
NPDES
LA Co. Site Mitigation

RESPONSE:

Facility ID:	19340646
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Don Indermill
Supervisor:	Philip Chandler
Division Branch:	Cleanup Chatsworth
Site Code:	301391
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	59
Senate:	30
Special Program Status:	Not reported
Status:	Active
Status Date:	05/05/2010
Restricted Use:	NO
Funding:	Not reported
Latitude:	34.01844
Longitude:	-118.2626
APN:	5128015031, 5128015032
Past Use:	METAL PLATING - OTHER
Potential COC :	* OXYGENATED SOLVENTS * UNSPECIFIED ACID SOLUTION * UNSPECIFIED SLUDGE WASTE * WASTE OIL & MIXED OIL Chromium VI Cyanide (free
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV
Alias Name:	5128015031
Alias Type:	APN
Alias Name:	5128015032
Alias Type:	APN
Alias Name:	CAD008271090
Alias Type:	EPA Identification Number
Alias Name:	110000473274
Alias Type:	EPA (FRS #)
Alias Name:	301391

PALACE PLATING (Continued) **S105024737**

Alias Type: Project Code (Site Code)
Alias Name: 19340646
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/12/1995
Comments: NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/16/1988
Comments: Site Screening Done: Due to wastewater discharges with high levels of cyanide and chromium, DHS will put together a HRS packet to see which agency should handle this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 12/09/2010
Comments: DTSC approved the revised Work Plan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 12/16/2008
Comments: DTSC approved the site assessment workplan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/11/2013
Comments: Approved with comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Subst. Endangerment Determination
Completed Date: 04/16/2008
Comments: DTSC has issued an Order to the responsible parties for the Site for the purpose of investigation and remediation of releases of hazardous substances at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE

PALACE PLATING (Continued) **S105024737**

Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/11/1983
Comments: Facility Identified: LA Chamber of Commerce Bus. Dir 1969.

Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2017
Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: CEQA - Notice of Exemption
Future Due Date: 2016
Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2016
Schedule Area Name: OU-1 Shallow Soils
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 04/30/2016
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets
Schedule Due Date: 05/15/2016
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 19340646
Status: Active
Status Date: 05/05/2010
Site Code: 301391
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Don Indermill
Supervisor: Philip Chandler
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.01844
Longitude: -118.2626
APN: 5128015031, 5128015032

PALACE PLATING (Continued) **S105024737**

Past Use: METAL PLATING - OTHER
Potential COC: * OXYGENATED SOLVENTS * UNSPECIFIED ACID SOLUTION * UNSPECIFIED SLUDGE WASTE * WASTE OIL & MIXED OIL Chromium VI Cyanide (free
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SV
Alias Name: 5128015031
Alias Type: APN
Alias Name: 5128015032
Alias Type: APN
Alias Name: CAD008271090
Alias Type: EPA Identification Number
Alias Name: 110000473274
Alias Type: EPA (FRS #)
Alias Name: 301391
Alias Type: Project Code (Site Code)
Alias Name: 19340646
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/12/1995
Comments: NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/16/1988
Comments: Site Screening Done: Due to wastewater discharges with high levels of cyanide and chromium, DHS will put together a HRS packet to see which agency should handle this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 12/09/2010
Comments: DTSC approved the revised Work Plan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 12/16/2008
Comments: DTSC approved the site assessment workplan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/11/2013
Comments: Approved with comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE

PALACE PLATING (Continued) **S105024737**

Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Subst. Endangerment Determination
Completed Date: 04/16/2008
Comments: DTSC has issued an Order to the responsible parties for the Site for the purpose of investigation and remediation of releases of hazardous substances at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/11/1983
Comments: Facility Identified: LA Chamber of Commerce Bus. Dir 1969.

Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2017
Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: CEQA - Notice of Exemption
Future Due Date: 2016
Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2016
Schedule Area Name: OU-1 Shallow Soils
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 04/30/2016
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets
Schedule Due Date: 05/15/2016
Schedule Revised Date: Not reported

CORTESE:
Region: CORTESE
Envirostor Id: 19340646
Site/Facility Type: STATE RESPONSE
Cleanup Status: ACTIVE
Status Date: 05/05/2010
Site Code: 301391
Latitude: 34.018449
Longitude: -118.26266

PALACE PLATING (Continued) **S105024737**

Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	CALSI
Reg Id:	19340646

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	188858
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I001799
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	8/1/2012
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	3/30/1992
STATUS CODE NAME:	Terminated
STATUS DATE:	9/18/2012
PLACE SIZE:	16000
PLACE SIZE UNIT:	SqFt
FACILITY CONTACT NAME:	Roger S Pierce
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	323-232-7263
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Palace Plating
OPERATOR ADDRESS:	710 E 29th St
OPERATOR CITY:	Los Angeles
OPERATOR STATE:	California
OPERATOR ZIP:	90011
OPERATOR CONTACT NAME:	Roger S Pierce
OPERATOR CONTACT TITLE:	Not reported

PALACE PLATING (Continued) **S105024737**

OPERATOR CONTACT PHONE:	323-232-7263
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	323-232-7263
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Pacific Ocean
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	3471-Electroplating, Plating, Polishing, Anodizing, and Coloring
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

LA Co. Site Mitigation:

Facility ID:	Not reported
Site ID:	Not reported
Jurisdiction:	Not reported
Case ID:	Not reported
Abated:	Not reported
Assigned To:	Not reported
Entered Date:	Not reported

50 NNE 1/2-1 0.965 mi. 5096 ft. | **FISHKING PROCESSORS/COMPTON AVE**
1640 COMPTON AVE
LOS ANGELES, CA 90021 | **ENVIROSTOR VCP** | **S106568234 N/A**

Relative: Higher

Actual: 230 ft.

ENVIROSTOR:

Facility ID:	19760016
Status:	No Further Action
Status Date:	04/09/1997
Site Code:	300655
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Nancy Carder
Supervisor:	Roberto Kou
Division Branch:	Cleanup Chatsworth
Assembly:	53
Senate:	30
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.02735
Longitude:	-118.2467
APN:	NONE SPECIFIED
Past Use:	HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS
Potential COC:	Arsenic Benzene Total Chromium (1:6 ratio Cr VI:Cr III Lead Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Arsenic Benzene Total Chromium (1:6 ratio Cr VI:Cr III Lead Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	SOIL, SV
Alias Name:	FISHKING PROCESSORS, INC.
Alias Type:	Alternate Name
Alias Name:	FISHKING/COMPTON AV
Alias Type:	Alternate Name
Alias Name:	110033615425
Alias Type:	EPA (FRS #)
Alias Name:	300655
Alias Type:	Project Code (Site Code)
Alias Name:	19760016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	04/09/1997
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/21/1998
Comments:	A PEA was performed. Soil sampling and analysis was conducted for PCBs, metals, VOCs, and TPH. The results showed that concentrations of PCBs and VOCs were found at the site. Soil contaminated with PCBs

FISHKING PROCESSORS/COMPTON AVE (Continued) **S106568234**

was removed from the site, and additional sampling was conducted. The additional sampling performed at the site confirmed that the low levels of PCBs and VOCs remaining on the site do not pose a human health risk as specified in DTSC's PEA manual.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	19760016
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Nancy Carder
Supervisor:	Roberto Kou
Division Branch:	Cleanup Chatsworth
Site Code:	300655
Assembly:	53
Senate:	30
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	04/09/1997
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.02735 / -118.2467
APN:	NONE SPECIFIED
Past Use:	HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS
Potential COC:	30001, 30003, 30005, 30013, 30022, 30027
Confirmed COC:	30001,30003,30005,30013,30022,30027
Potential Description:	SOIL, SV
Alias Name:	FISHKING PROCESSORS, INC.
Alias Type:	Alternate Name
Alias Name:	FISHKING/COMPTON AV
Alias Type:	Alternate Name
Alias Name:	110033615425
Alias Type:	EPA (FRS #)
Alias Name:	300655
Alias Type:	Project Code (Site Code)
Alias Name:	19760016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement

FISHKING PROCESSORS/COMPTON AVE (Continued) **S106568234**

Completed Date: 04/09/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/21/1998
Comments: A PEA was performed. Soil sampling and analysis was conducted for PCBs, metals, VOCs, and TPH. The results showed that concentrations of PCBs and VOCs were found at the site. Soil contaminated with PCBs was removed from the site, and additional sampling was conducted. The additional sampling performed at the site confirmed that the low levels of PCBs and VOCs remaining on the site do not pose a human health risk as specified in DTSC's PEA manual.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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51 **BIKE SHOP** **ENVIROSTOR** **U001560486**
SSE **5201 SOUTH COMPTON AVENUE** **N/A**
1/2-1 **LOS ANGELES, CA 90011**
0.975 mi.
5149 ft.

Relative:
Lower

Actual:
183 ft.

ENVIROSTOR:
Facility ID: 19550028
Status: Inactive - Action Required
Status Date: 06/30/2003
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.21
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: US EPA
Program Manager: Not reported
Supervisor: Rita Kamat
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 33
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.99558
Longitude: -118.2481
APN: 5104008036
Past Use: FUEL - VEHICLE STORAGE/ REFUELING, VEHICLE MAINTENANCE
Potential COC: * HYDROCARBON SOLVENTS * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL
Confirmed COC: NONE SPECIFIED

BIKE SHOP (Continued) **U001560486**

Potential Description: AQUI, SOIL, SV
Alias Name: PAISANO'S BIKE SHOP
Alias Type: Alternate Name
Alias Name: 5104008036
Alias Type: APN
Alias Name: CAN000905804
Alias Type: CERCLIS ID
Alias Name: 110009269255
Alias Type: EPA (FRS #)
Alias Name: 19550028
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/30/2003
Comments: Preliminary Assessment of Bike Shop Site for Federal EPA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

52
East
1/2-1
0.982 mi.
5186 ft.

M-5 STEEL, INC.
2901-2921 SACO STREET
VERNON, CA 90058

ENVIROSTOR **S101480768**
N/A

Relative:
Higher

Actual:
209 ft.

ENVIROSTOR:
Facility ID: 19330374
Status: Refer: Other Agency
Status Date: 05/15/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Chatsworth
Assembly: 53
Senate: 33
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.00916
Longitude: -118.2336
APN: NONE SPECIFIED

M-5 STEEL, INC. (Continued) **S101480768**

Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * ORGANIC LIQUIDS WITH METALS * ORGANIC SOLIDS WITH HALOGENS * OTHER ORGANIC SOLIDS * CONTAMINATED SOIL * Sludge - Halogenated Compounds * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL * ORGANIC LIQUIDS (NONSOLVENTS) WITH HALOGENS * UNSPECIFIED ORGANIC LIQUID MIXTURE Lead Chromium VI Mercury and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: BORG-WARNER CORPORATION
Alias Type: Alternate Name
Alias Name: BORG-WARNER INDUSTRIAL PRODUCTS, INC.
Alias Type: Alternate Name
Alias Name: DESIGN STUDIO
Alias Type: Alternate Name
Alias Name: M-5 STEEL, INC.
Alias Type: Alternate Name
Alias Name: PRIME GLASS
Alias Type: Alternate Name
Alias Name: R & R EQUIPMENT MOVERS
Alias Type: Alternate Name
Alias Name: STEPHENS-ADAMSON MANUFACTURING COMPANY
Alias Type: Alternate Name
Alias Name: TEMPWERKS
Alias Type: Alternate Name
Alias Name: VIVID IMAGES
Alias Type: Alternate Name
Alias Name: 19330374
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/21/1991
Comments: Facility identified from RP's attorney.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/15/1995
Comments: Tell city of this contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/28/1991
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

M-5 STEEL, INC. (Continued) **S101480768**

Schedule Revised Date: Not reported

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53 SSW 1/2-1 0.994 mi. 5249 ft.

DEPENDABLE REFRIGERATION
5201 SOUTH CENTRAL AVENUE
LOS ANGELES, CA 90011

ENVIROSTOR **S105954467**
N/A

Relative: Lower

Actual: 182 ft.

ENVIROSTOR:

Facility ID:	19760023
Status:	Inactive - Action Required
Status Date:	06/27/2003
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.12
NPL:	NO
Regulatory Agencies:	US EPA
Lead Agency:	US EPA
Program Manager:	Not reported
Supervisor:	Rita Kamat
Division Branch:	Cleanup Chatsworth
Assembly:	59
Senate:	30
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.99562
Longitude:	-118.2567
APN:	5103027013
Past Use:	MACHINE SHOP, METAL RECLAMATION, PAINT/DEPAINT FACILITY, RECYCLING - OTHER
Potential COC:	* UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES Freon 113 Tetrachloroethylene (PCE
Confirmed COC:	30022-NO 10196-NO 10198-NO 30012-NO
Potential Description:	SOIL, SV
Alias Name:	301119
Alias Type:	Not reported
Alias Name:	5103027013
Alias Type:	APN
Alias Name:	CAN000905754
Alias Type:	CERCLIS ID
Alias Name:	19760023
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/27/2003
Comments:	A Preliminary Assessment was conducted for the USEPA. Dependable Refrigeration refurbished used refrigerator compressors. Further investigation was suggested for this property where gas station and auto repair activities were historically performed.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported

DEPENDABLE REFRIGERATION (Continued) **S105954467**

Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS ANGELES	S105840739	JEFFERSON HOOPER PRIMARY SCHOOL NO	52ND STREET/HOOPER AVENUE	90011	ENVIROSTOR, SCH
LOS ANGELES	S105628622	JEFFERSON ELEMENTARY SCHOOL NO. 1	MARTIN LUTHER KING JR. BLVD./A	90011	ENVIROSTOR, SCH

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/15/2016
Date Data Arrived at EDR: 02/17/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 44

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/17/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/01/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/04/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/22/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 53

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 58

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/14/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 09/30/2015
Date Data Arrived at EDR: 01/19/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 63

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 16

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 12/17/2015
Date Data Arrived at EDR: 12/22/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/16/2015
Date Data Arrived at EDR: 01/27/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 55

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing
The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing
The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/12/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/29/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/07/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 12/29/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 23

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/08/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/05/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 09/25/2015
Date Made Active in Reports: 11/05/2015
Number of Days to Update: 41

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/28/2016
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 02/23/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 38

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/13/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/12/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 53

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/10/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/16/2016
Date Data Arrived at EDR: 02/17/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 44

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/17/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 03/01/2016
Number of Days to Update: 75

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/23/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 28

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/16/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/23/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/12/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 41

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/14/2016
Date Made Active in Reports: 03/01/2016
Number of Days to Update: 47

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 11/16/2015
Date Data Arrived at EDR: 12/10/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 42

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 02/19/2016
Date Data Arrived at EDR: 02/23/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 38

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 02/02/2016
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 18

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2016
Date Data Arrived at EDR: 02/26/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 35

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/22/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 03/07/2016
Number of Days to Update: 31

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/05/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 45

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/02/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 48

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 01/25/2016
Date Data Arrived at EDR: 01/27/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 26

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/19/2015
Date Data Arrived at EDR: 06/18/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/23/2016
Date Data Arrived at EDR: 02/25/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 36

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 33

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/01/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/19/2016
Date Data Arrived at EDR: 01/20/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 62

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/20/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/15/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 40

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/12/2016
Date Data Arrived at EDR: 01/15/2016
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 24

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 03/07/2016
Number of Days to Update: 84

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 10/05/2015
Date Data Arrived at EDR: 10/08/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 7

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/18/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 34

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 51

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 12/10/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 60

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 01/27/2016
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 18

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/10/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 51

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/10/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 12/11/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 41

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 01/22/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 60

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 01/22/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 60

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/06/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/06/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/18/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 52

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 03/03/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 12/18/2015
Date Data Arrived at EDR: 12/22/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 48

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/21/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/14/2015
Date Data Arrived at EDR: 10/15/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 32

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 53

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 11/18/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 17

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 02/10/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 51

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 11/18/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 18

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 12/10/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 42

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 12/14/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 56

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/14/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 39

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 32

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 9

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 10/29/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 42

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/14/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/30/2015
Date Data Arrived at EDR: 12/17/2015
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 53

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/17/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 46

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 17

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/12/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

JEFFERSON HIGH SCHOOL
1319 E 41ST ST, APNS 5114-036-900,-01,-02,-03,-04
LOS ANGELES, CA 90011

TARGET PROPERTY COORDINATES

Latitude (North):	34.009562 - 34˚ 0' 34.42''
Longitude (West):	118.251227 - 118˚ 15' 4.42''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	384458.8
UTM Y (Meters):	3763727.5
Elevation:	205 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630741 HOLLYWOOD, CA
Version Date:	2012
Northeast Map:	5630795 LOS ANGELES, CA
Version Date:	2012
Southeast Map:	5633765 SOUTH GATE, CA
Version Date:	2012
Southwest Map:	5640440 INGLEWOOD, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

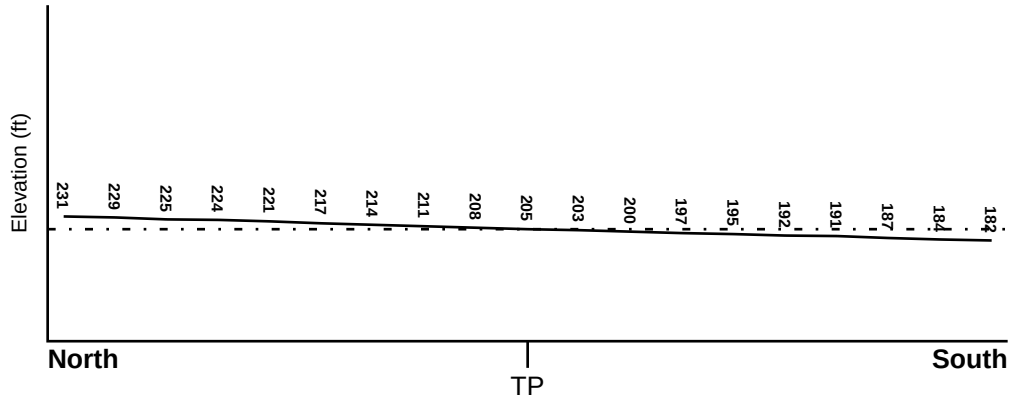
TOPOGRAPHIC INFORMATION

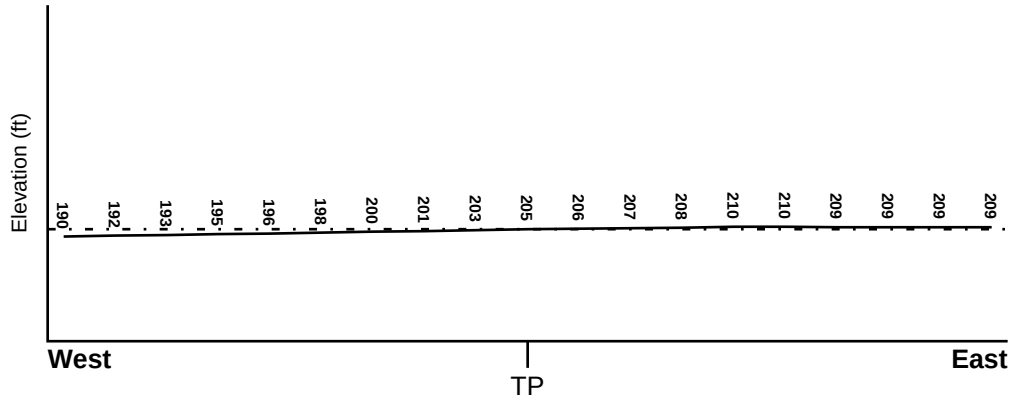
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

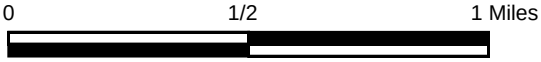
General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 205 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	06037C - FEMA DFIRM Flood data
Additional Panels in search area:	Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HOLLYWOOD	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/4 - 1/2 Mile NE
Site Name:	RENU PLATING CO INC
Site EPA ID Number:	CAD048479497
Groundwater Flow Direction:	GENERALLY SW.
Inferred Depth to Water:	50 feet to 100 feet.
Hydraulic Connection:	The Bellflower aquiclude is not present at the site. The Gaspur, Exposition, and Gage aquifers of the Lakewood formation underlie the site and are hydraulically connected. The Lakewood formation is underlain by a clay layer.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/4 - 1/2 Mile West	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Surficial Soil Types: loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Shallow Soil Types: fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types: stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS40000139750	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4604037.2s

County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	Jefferson High School	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	1319 E 41st St, APNs 5114-036-900,-01,-02,-03,-04 Los Angeles CA 90011	CONTACT:	Marisol Garcia
LAT/LONG:	34.009562 / 118.251227	INQUIRY #:	4604037.2s
		DATE:	April 28, 2016 7:28 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **West** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	900570061 Not Reported 8.37 12 Not Reported 08/07/1996	**AQUIFLOW**	**55204**

2
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000139750**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340030118140901		
Monloc name:	002S013W10M001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.0083473
Longitude:	-118.2367398	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	874
Welldepth units:	ft	Wellholedepth:	874
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90011	1	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D: QUALIFICATIONS

PARTNER

Robin Blanchard
Senior Assessor

Education
English Literature/Sociology, UC San Diego
Coursework in Geology and Inorganic Chemistry

Registrations
California Registered Environmental Assessor – 1994 No. 07999
Certified Asbestos Building Inspector

Training
OSHA Hazardous Waste Operator (HAZWOPER) 40 hour Certification
DOT Hazardous Materials Transport (DOT HM-126F)
Accredited Contract Supervisor-Competent Person
Transportation Worker Identification Credential
EDR Common Ground Environmental Site Assessment (ESA) Training
ASTM International Phase I ESA Practices for Commercial Real Estate: Transaction Screen and Phase I Site Assessment
Chevron Learning Management System
Port of Los Angeles Worker Screening/Training
Los Angeles World Airport Screening/Training
Metrolink/BNSF Safety Training.

Highlights
Over 23 years experience in the environmental service industry
Phase I ESAs, Phase II Subsurface Investigations, Phase III Site Characterizations
Remedial Investigation/Feasibility Studies
Remedial Action/Remedial Design Studies
Lead in Soil and Drinking Water Surveys.

Experience Summary
Ms. Blanchard is currently a Senior Environmental Assessor and her responsibilities include thorough site assessment and technical report writing in line with the American Society of Testing and Materials (ASTM) standard and US Environmental Protection Agency's All Appropriate Inquiry (AAI) as well as customized client formats. Her knowledge and ability to manage multiple services associated with real estate due diligence allows Ms. Blanchard to provide her clients with comprehensive information and identification of risks in order to make sound financial investments. In addition, Ms. Blanchard performs limited asbestos surveys, lead-based paint surveys and radon testing as required per scope of work.

At a previous firm, Ms. Blanchard was responsible for environmental due diligence and field implementation both locally and nationwide with emphasis on environmental site assessments related to property transactions, Phase II soil and groundwater investigations, due diligence audits, environmental compliance audits, hazardous waste management and corrective action implementation. She also served as project manager performing field staff supervision; subcontractor oversight; report review; and client management.

Project Experience

Ms. Blanchard has conducted, managed and directed hundreds of ESAs throughout her career and has been project manager, lead assessor, health and safety and field office manager for dozens of site investigations, characterization studies and remediation projects throughout California and the US. The following select projects summarize her experience and due diligence background:

Transaction Due Diligence

Environmental Assessment, California, Various Lenders and Clients, Freddie Mac, Fannie Mae and private investors and brokers. Ms. Blanchard performs due diligence services related to real estate transfers and property development, throughout California. She works closely with property managers and representatives to provide a smooth exchange between client and lenders. She is also responsible for review of third party reports, asbestos and lead surveys, and subsurface investigations.

Environmental Assessment, Southern California, The New Home Company. For two years Ms. Blanchard performed due diligence services related to real estate transfers and property development for The New Home Company, a large residential developer in Southern California. She was also responsible for review of third party reports, asbestos and lead surveys, coordination with regulatory agencies, and subsurface investigations.

Environmental Assessment, Southern California, Jiffy Lube. Ms. Blanchard performed and managed twelve environmental site assessments of vacant and operating vehicle fueling and repair stations proposed for redevelopment or sale. In addition, Ms. Blanchard was responsible for review of third party reports, asbestos and lead surveys, underground storage tank removals and other subsurface investigations.

Environmental Assessment, Southern California, Johnson & Johnson/DePuy. Ms. Blanchard performed environmental site assessments and limited compliance evaluations of six medical device/equipment manufacturers. She evaluated the current environmental regulations applicable to the facilities and any deficiencies or omissions.

Project Manager/Coordinator/Team Leader, Nationwide, U.S.A. (Confidential Client). Ms. Blanchard coordinated and performed over 220 Phase I and II investigations, including lead paint, lead in water, asbestos and radon surveys, compliance audits, storage tank investigation/removal/ remediation, decommissioning and environmental permit transfers for psychiatric and acute care hospitals, medical clinics and offices, throughout the United States. Her responsibilities included investigatory and research activities, serving as a liaison between the client, client attorneys, the potential buyers, individual project managers, staff, and subcontractors in many different offices. She also managed and projected budgets, performed Phase I and II investigations and compliance evaluations across the United States, and reviewed and technically edited all proposals and reports for those projects.

Project Office Manager/Project Coordinator/Sample Custodian, Two Delisted NPL Sites, Del Amo/Palo Alto, CA, Hewlett-Packard and Shell Oil/Dow Chemical. Ms. Blanchard served as onsite field office manager, database coordinator, and sample custodian for remedial investigation/feasibility studies for two large-scale projects under the guidance of the US EPA and the California Regional Water Quality Control Board. She coordinated field, office, and database personnel, served as client, public and agency (Regional Water Quality Control Board) liaison, prepared monthly status reports as well as budget and labor projections,

edited technical submittals to client and agencies, compiled and maintained an administrative public record and supervised five site and field office employees.

Subsurface Investigations/Demolition/Health & Safety

Health & Safety Third Party Oversight, Aircraft Engine Test and Repair Facility Demolition, Bob Hope Airport, Burbank, California, GE. Provided third-party health and safety oversight and reporting for demolition of a historic, closed aircraft engine test and repair facility that had been in operation since the 1930s. Her responsibilities included daily task assessment, oversight, preparation of health and safety task assessment, and incident reporting forms for a high profile international company. She was also accountable for the coordination between multiple consultants, the client, the airport and local agencies.

Field Project Manager, Site Remediation, Brea, CA, Birch Hills Golf Course/Chevron, 2013. Ms. Blanchard oversaw field operations, primarily large-scale soil excavations and health and safety of subcontractors for sampling and soil excavation (primarily for PCBs) at a former industrial plant that had been redeveloped as a golf course. Oversight of the project was provided by the US EPA and chemicals of concern included PCBs, metals, petroleum hydrocarbons and other volatile compounds.

Health & Safety Liason, Operating Resort Facility, Kapolei, HI, Disney Aulani Resort, 2012. Ms. Blanchard identified and followed up on health and safety task items for operations and subcontractors at a ten-acre leisure resort. Her duties included assessment of chemical use, storage and disposal, construction punch lists, compliance training and documentation, as well as chemical release monitoring and systems installation.

Field Project Manager, Chemical Plant Demolition, Santa Fe Springs, CA, Pilot Chemical Company, 2011-2012. Ms. Blanchard oversaw field operations and health and safety of subcontractors for demolition of a former industrial soap manufacturer under the guidance of the RWQCB. Her responsibilities included hazardous materials, lead, asbestos and mold abatement oversight, health and safety monitoring, as well as the removal of impacted soil, clarifiers, tanks, and unknown subsurface features encountered during demolition activities. Her ongoing activities included soil vapor and groundwater monitoring and reporting.

Assistant Project Manager, Former Research Laboratory Decommissioning, Montebello, CA, Chevron, 2005. Ms. Blanchard assisted with hazardous materials and waste identification, collection, characterization and disposal. She was responsible for historical and regulatory agency research, materials and equipment decommissioning, oversight of storage tank removal, clarifier and settling pond removal, as well as asbestos sampling and abatement, in preparation for demolition and/or conversion of a former research refinery and laboratory.

Municipal/State Contracts

Project and Field Project Manager, LAUSD Proposed School Sites, Los Angeles, CA, Los Angeles Unified School District (LAUSD), 1999-2014. Ms. Blanchard participated on the on-call environmental services contract under the district's environmental health and safety branch, which focused on clearing new proposed school sites by the California Department of Toxic Substances Control (DTSC). Her responsibilities included fast-track preparation, implementation and documentation of preliminary environmental assessments, focused investigations, removal action plans, and removal action completion reports. The projects she worked on included facility demolition and construction activities, soil, soil gas and groundwater investigation and

remediation, as well as health and safety and contractor oversight. Specific projects included: South Region Elementary Schools 3 and 7; South Region High School No's 2,3,7 and 9: Central Los Angeles Learning Center No.1, Central Region Elementary Schools No's 13 and 17; Carson-Gore Learning Academy; Valley Region High School No. 13, and Bell Adult Education Center.

Contact

rblanchard@partneresi.com

Adam Bailey
Project Manager

Education

B.S., Biology, Arizona State University

Training

Hazardous Waste Operations and Emergency Response (HAZWOPER), 40-hour (with First Aid, CPR)
Asbestos Hazard and Emergency Response Act (AHERA) Asbestos Building Inspector
EPA Method 9 Visible Emissions
AGC/ADOT Erosion Control Coordinator

Highlights

Over 8 years of experience in environmental consulting including Phase I and Phase II Environmental Site Assessments (ESAs), transaction screens, soil and groundwater remediation, and various other environmental work scopes

Over 8 years conducting industrial hygiene assessments such as asbestos, lead, radon, and mold surveys

Experience Summary

Mr. Bailey serves as a Project Manager for Partner Engineering and Science, Inc. (Partner), overseeing and managing all aspects of multi-scope projects including Phase I ESAs in accordance with EPA's All Appropriate Inquiry (AAI), Property Condition Assessments (PCAs), Sub-specialist Reports, Zoning Reports, Seismic Assessments, and Industrial Hygiene-related projects.

Mr. Bailey has significant experience in due diligence assessments for a variety of property types and the needs and requirements of a variety of reporting standards, including ASTM standards, EPA's AAI, Freddie Mac, Fannie Mae, and customized client formats. Specifically, Mr. Bailey has performed Phase I Environmental Site Assessments (ESAs), Environmental Transaction Screens, Database Reviews, Phase II Subsurface Investigations, Stormwater Pollution Prevention Plans (SWPPs), Spill Prevention, Control, and Countermeasure (SPCC) Plans, Geotechnical Evaluations, Soil and Groundwater Remediation, Regulatory Compliance Assessments, Asbestos Surveys, Lead-based Paint Surveys, Radon Surveys, and Mold Assessments.

Environmental Assessments

Duties included performing site visits; gathering zoning, ownership, building permits, fire records, and groundwater well information; geology research; UST and leaking underground storage tank (LUST) file review; aerial photograph interpretation; Resource Conservation Recovery Act (RCRA), Water Quality Assurance Revolving Fund (WQARF), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) database and city directory review; personal interviews; and preparation of technical reports.

Subsurface Investigations

Mr. Bailey has extensive experience in conducting Phase II Subsurface Investigations on industrial manufacturing facilities, plating facilities, DOT yards, gas stations, auto repair facilities, multi-family residential properties, shopping centers, and undeveloped land. Mr. Bailey has conducted soil and soil gas sampling, groundwater sampling, oversight of underground storage tank (UST) removal activities, drywell investigations, and extensive soil and groundwater remediation activities at former plating facilities, former military airport, and aggregate mines.

Industrial Hygiene Surveys
Mr. Bailey has served as a Project Scientist and Project Manager on numerous Industrial Hygiene related projects. Projects included asbestos, microbial remediation, lead-based paint, and industrial hygiene (plating and paint mixing facilities) related projects, including sampling, report preparation, and senior review for a variety of clients throughout the United States. In addition, Mr. Bailey has provided asbestos and microbial abatement oversight activities at private, commercial, and school facilities.

Geotechnical Evaluations
Mr. Bailey's field experience includes logging and sampling geotechnical borings for civil engineering and future construction projects. Duties included placing boring locations via GPS coordinates, logging borings, collection of soil samples, classification of soils in accordance with Unified Soil Classification System (USCS), and supervision and coordination of drilling and utility locating companies.

Project Experience

Former Semi-Conductor Plating Facility, Phoenix, Arizona. Mr. Bailey served as the field team leader for the decommissioning of a former semi-conductor plating facility. He conducted numerous subsurface investigations and provided technical oversight during remedial activities and post-remedial clearance sampling.

Various High Profile Acquisition Properties, Various locations throughout the United States. Mr. Bailey has managed numerous multi-scope equity projects on high profile and historic hotel/resort properties, with scopes of work including Phase I ESAs, PCAs, Sub-specialist Reports, Zoning Reports, Seismic Assessments, and Industrial Hygiene-related sampling.

Various Freddie Mac and Fannie Mae Multifamily Properties, Various locations throughout the United States. Mr. Bailey has managed and staffed numerous Freddie Mac and Fannie Mae scope projects throughout the United States. Scopes include Phase I ESAs, PCAs, and Seismic Assessments.

Former Aggregate Mine, Salt River Pima-Maricopa Indian Community, Arizona. Mr. Bailey served as the field team leader for the decommissioning of a former aggregate mine on Tribal Lands. He conducted numerous subsurface investigations and provided technical oversight during remedial activities, UST removal operations, septic system removals, well abandonment, and post-remedial clearance sampling.

Department of Defense Cleanup, Mesa, Arizona. Mr. Bailey was subcontracted to provide general technical operation assistance and routine compliance sampling at a Thermally-Enhanced Soil Vapor Extraction pilot test for a former Air Force jet fueling compound and active Superfund Site.

Contact

abailey@partneresi.com

Education

Bachelor of Science, Environmental Science, Emphasis in Regulation and Economics
University of California, Riverside

Registrations

Registered Environmental Assessor - California
OSHA 40-Hour Hazwoper
AHERA Certified Asbestos Building Inspector

Training

Technical Writing Course - 1995

Highlights

More than 22 years of experience in the environmental and engineering consulting field.
Equity/Acquisition Property Condition Assessments and Phase I ESAs.
Agency Lender Acquisition Property Condition Assessments and Phase I ESAs.
Soil and groundwater contamination investigations and remediation.
Regulatory compliance projects.
Ordnance Removal Engineering Studies.

Experience Summary

Mr. Jones currently serves as a National Client Manager for Partner Engineering & Science, Inc. providing solutions to clients' physical condition and environmental due diligence and engineering needs. He is responsible for ensuring consistency and quality and on-time report delivery of due diligence and engineering services provided by Partner. Current day to day responsibilities include project oversight, staff supervision, problem solving, report review, and client management.

Mr. Jones has served as an environmental scientist, project manager, or senior author for projects associated with over 7,000 real estate transactions. Mr. Jones is familiar with the due diligence requirements of a varied number of reporting standards, including ASTM, EPA's All Appropriate Inquiry (AAI), Fannie Mae DUS, HUD, and Freddie Mac. He also has experience with fulfilling numerous customized client scopes of work. Mr. Jones' due diligence resume includes experience at all levels including advising traditional and agency lenders, real estate investors, and other client types through the following product types: Phase I Environmental Site Assessments, Environmental Transaction Screens, Phase II Subsurface Investigations, Remedial Cost Estimates, Remediation Design, Property Condition Assessments, Probable Maximum Loss Assessments, asbestos, lead-based paint, lead-in water, radon, mold surveys, geophysical surveys, regulatory compliance projects, Engineering Evaluation/Cost Analysis projects, and Preliminary Endangerment Assessments. His specialty is performing engineering and environmental due diligence for lenders, real estate investors, attorneys, and government entities.

Additionally, over the course of his career, as a staff scientist, project manager, senior project manager and client manager, Mr. Jones has significant relevant project experience relating to investigation and cleanup of soil, soil vapor, and groundwater contamination. The investigations and cleanup projects have occurred at current and former gas stations and dry cleaning facilities, agricultural properties, industrial and

manufacturing facilities, and military installations. Investigation and cleanup projects have been as the result of releases from underground storage tanks, dry cleaning equipment, and from spills and/or dumping activities. Media that has been investigated and remediated has included dry cleaning chemicals and wastes, gasoline, diesel, and other fuel types, and PCA and TCE plumes. In addition, Mr. Jones was often the point of contact for regulatory agencies, and produced work plans, bid documents, contracts, specifications, and the documents that detailed the investigation, long-term groundwater monitoring, and/or soil and groundwater cleanup activities.

Project Experience

Acquisition Assessments, LAX Marriott. Mr. Jones led a team of specialty consultants who evaluated the physical condition of the LAX Marriott hotel. A generalist specializing in management of equity PCAs worked with a team of specialists under Mr. Jones' direction, including the following scopes and disciplines: Mechanical, Engineering, and Plumbing / Fire Life Safety (MEP/FLS) assessments, elevator assessment, roof assessment, accessibility survey, and curtain wall evaluation. Additionally, the team performed a Phase I Environmental Site Assessment (ESA), Phase II ESA, site characterization due to contaminants identified from historic manufacturing uses, a seismic risk assessment, and an ALTA survey. Mr. Jones' team worked with several attorneys and the client's acquisitions team to provide a detailed account of problematic issues and associated costs for their consideration in order to help determine whether the acquisition should occur.

Acquisition Property Condition Assessments, Tustin Center I & II, Santa Ana, CA; 235 Pine Street, San Francisco, CA; Park 80 West, Saddle Brook, NJ; United Plaza, Philadelphia, PA; California Plaza, Walnut Creek, CA; Stadium Gateway. Mr. Jones led a team of specialty consultants who evaluated the physical condition of the above mid to high-rise office building properties. A generalist specializing in management of equity PCAs worked with a team of specialists under Mr. Jones' direction, including but not limited to the following scopes and disciplines: Mechanical, Engineering, and Plumbing / Fire Life Safety (MEP/FLS) assessments, elevator assessments, roof assessments, curtain wall evaluations, structural engineering evaluations, microbiological influenced corrosion (MIC) testing, and water intrusion assessment and testing. Mr. Jones' team worked with the client's acquisitions team to provide a detailed account of problematic issues and associated costs for their consideration in order to help determine whether the acquisitions should occur.

Acquisition Property Condition Assessments (PCAs) and Phase I Environmental Assessments (ESAs) for Medical Office Buildings. Mr. Jones led a team of specialty consultants who evaluated the physical and environmental condition of hundreds of medical office building properties across the United States. The due diligence work was associated with both portfolios of medical office buildings as well as individual properties. A generalist specializing in management of equity PCAs worked with a team of specialists under Mr. Jones' direction, including but not limited to the following scopes and disciplines: Mechanical, Engineering, and Plumbing / Fire Life Safety (MEP/FLS) assessments, elevator assessments, roof assessments, curtain wall evaluations, and structural engineering evaluations. Phase I ESAs and in many cases Seismic Risk Assessments were also performed. Mr. Jones' team worked with the client's acquisitions team and their attorneys to provide a detailed account of problematic issues and associated costs for their consideration in order to help determine whether the acquisitions should occur.

Fannie Mae and Freddie Mac ESAs and PCAs. Mr. Jones' team has performed hundreds of Phase I Environmental Site Assessments and Property Condition Assessments for Fannie Mae and Freddie Mac

agency lenders. The multi-family developments evaluated by Mr. Jones and his team have been located all across the United States.

PEAs, Beaumont and Coachella, CA School Districts. Mr. Jones' team has performed several Preliminary Endangerment Assessments on agricultural properties to determine whether the sites were impacted with agricultural chemicals and to determine if the properties were suitable locations for public schools to be developed. The analysis included developing a protocol for pesticide and herbicide testing, performing the sampling in accordance with said protocol, and an evaluation of the sampling results.

EBS' at U.S. Air Force Bases. Mr. Jones has been part of a team that performed numerous Environmental Baseline Surveys (EBS') at United States Air Force Bases across the country. The EBS document was a comprehensive survey or assessment that was essentially a very detailed account of the environmental issues and status at the Air Force Base and on properties that adjoined the Air Force Base. The document contained information including but not limited to: aboveground and underground storage tanks, oil water separators, hazardous materials use and hazardous waste storage locations, chemical inventories, buildings with known or suspected PCBs, asbestos, and/or lead based paint, contamination sites, and sites with radioactive materials or wastes.

EE/CA, Fort Ord, Monterey Bay, CA. Mr. Jones was the Deputy Task Order Manager for an Engineering Evaluation/Cost Analysis study at the former Fort Ord, California. The study identified and documented both newly discovered and known ordnance sites at the former Fort Ord. The types of ordnance at each site were determined as well as the expected depths of penetration upon impact. The costs associated with removing the ordnance was also determined and recommendations were made as to what depths below ground surface the ordnance removals should occur at each site.

Subsurface Investigation, Ogden, UT. Mr. Jones performed a large scale investigation to determine if any soil or groundwater contamination was present at numerous locations where fuel was stored in underground and aboveground storage tanks at the U.S. Army Defense Depot Ogden. When contaminants were identified, the sites were then characterized to determine extent of impact to soil and groundwater.

Environmental Compliance Audit, Atchison, KS. Mr. Jones performed an Environmental Compliance Audit (ECA) of numerous environmental resource management protocols at the Atchison Facility for the Federal Defense Logistics Agency in Atchison, Kansas.

Contact

gjones@partneresi.com

E-2 Asbestos Engineering Assessment

CITADEL ENVIRONMENTAL SERVICES, INC.

assess
resolve
strengthen

TO: Mr. Kevin Kelly
Los Angeles Unified School District
Facilities Environmental Technical Unit
1240 South Naomi Avenue
Los Angeles, California 90021

Mr. Dave Montes
Los Angeles Unified School District
Facilities Environmental Technical Unit
1240 S. Naomi Avenue
Los Angeles, CA 90021

ASBESTOS ENGINEERING ASSESSMENT

JEFFERSON HIGH SCHOOL (8714)
1319 E. 41ST Street, Los Angeles, California 90011
Comprehensive Modernization Project
LAUSD Colin Number: 10366809

Citadel Project # 2017.1029.0

Date Prepared: February 23, 2017
Revised Date: March 28, 2017

PREPARED BY:

CITADEL ENVIRONMENTAL SERVICES, INC.

Loren Witkin, CAC #12-4963

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Appendices

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Los Angeles Unified School District
Facilities Services Division

OFFICE OF THE SUPERINTENDENT

FACILITIES SERVICES DIVISION

March 30, 2017

CITADEL ENVIRONMENTAL SERVICES, INC.
ATTN: Loren Witkin/Jennie Tran
1725 Victory Boulevard
Glendale, CA 91201

RE: PHASE _I_ REVIEW AND APPROVAL FOR ASBESTOS _____X__ and/or LEAD __X__

The Facilities Environmental Technical Unit (FETU) has reviewed and approved your Phase ___I___ document(s) for the project listed below.

School: JEFFERSON HIGH SCHOOL School Code # 8714

Project: COMPREHENSIVE MODERNIZATION PROJECT Colin No. 10366809

Date of Report: 03-28-2017 FETU Work Order No. 26460248

If you have any questions regarding this approval, please call the FETU at (213) 745-1450.

Sincerely,

Kevin J. Kelly, CAC
Senior, FETU
Facilities Environmental Technical Unit

c: Dave Montes, Complex Project Manager
Mohammad Baig – Facilities Development Manager/Construction, Central Region
Kwun Yang, FETU Analyst
File

LIST OF ACRONYMS
for Asbestos

ACM	Asbestos-Containing Material
ACBM	Asbestos-Containing Building Material
ACCM	Asbestos-Containing Construction Material (California only)
AHERA	Asbestos Hazard Emergency Response Act
CAC	California Asbestos Consultant
Cal/OSHA	California Division of Occupational Safety and Health
CCR	California Code of Regulations
CSST	California Site Surveillance Technician
CFR	Code of Federal Regulations
EPA	Environmental Protection Agency
FETU	Facilities Environmental Technical Unit (LAUSD)
HEPA	High Efficiency Particulate Air
HVAC	Heating, Ventilation, and Air Conditioning
LAUSD	Los Angeles Unified School District
NEA	Negative Exposure Assessment
NESHAP	National Emission Standards for Hazardous Air Pollutants
OAR	Owner Authorized Representative
OEHS	Office of Environmental Health & Safety (LAUSD)
PEL	Permissible Exposure Limit
PLM	Polarized Light Microscopy
RACM	Regulated Asbestos-Containing Material
SCAQMD	South Coast Air Quality Management District

LIST OF DEFINITIONS
for Asbestos

Abatement: Control/elimination of asbestos through operations and maintenance, repair, enclosure, encapsulation, or removal.

Amended Water: Water to which a surfactant (wetting agent) has been added to increase the ability of the liquid to penetrate ACM.

Asbestos: Asbestiform varieties of Chrysotile (serpentine), crocidolite (riebeckite), amosite (cummingtonitegrunerite), anthophyllite, tremolite, and actinolite.

Asbestos-Containing Material (ACM): Material or product containing more than one percent

Asbestos-Containing Building Material (ACBM): Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a school building.

Asbestos-Containing Construction Material (ACCM): For California only. Manufactured construction material that contains more than one-tenth of one percent (0.1%) asbestos by weight.

Building ID Number or Code: Six-digit alphanumeric identification code assigned to each building on a site; sometimes referred to as the insurance code, ID number, or other similar terms.

District: The Los Angeles Unified School District and its representatives.

Friable: Used in reference to a school building material which, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure.

High Efficiency Particulate Air (HEPA): Filter or system capable of removing particulates of 0.3 microns or larger from air at 99.97 percent or greater efficiency.

Nonfriable: Used in reference to a school building material which, when dry, may not be crumbled, pulverized, or reduced to powder by hand pressure.

Plasticize: To cover floors, ceilings, and walls with plastic (polyethylene) sheeting.

Regulated Area: Area established by the employer (abatement contractor) to demarcate where asbestos work is conducted, and by the adjoining area where debris and waste from such asbestos work accumulate; a work area within which airborne concentrations of asbestos exceed or may exceed (with reasonable possibility) the permissible exposure limit.

I. Executive Summary, Introduction, Purpose, and Scope of Services

This Asbestos Engineering Assessment Report has been prepared by Citadel Environmental Services, Inc. (Citadel) for the upcoming Comprehensive Modernization Project at Jefferson High School (8714) located at 1319 E. 41st Street, Los Angeles, California 90011.

Citadel was contracted by Mr. Kevin Kelly of the Los Angeles Unified School District – Facilities Environmental Technical Unit (FETU) to perform an asbestos survey of Jefferson High School (8714). The purpose of the survey was to identify and located suspect asbestos-containing material (ACM) that will be impacted during the Comprehensive Modernization Project.

The asbestos survey was conducted by the Certified Site Surveillance Technicians, Rigoberto Rodriguez, Alex Bernal, James Berardino, Nelson Ortiz, and Jennie H. Tran from August 30th, 2016 to November 11th, 2016, and February 15th to 21st, 2017. The report was prepared by Jennie H. Tran and was reviewed by a Certified Asbestos Consultant, Loren I. Witkin. All work performed in general accordance with Federal, State, and local regulations for conducting asbestos surveys to meet LAUSD/AHERA requirements.

II. Scope of Work

The asbestos engineering assessment performed was limited only to the areas involved in and building materials impacted by the scope of work for the above referenced project. The project scope of work can be referenced to the Request for Assistance Form dated 7/5/16, Structural Drawings dated 5/04/16, and Program of Facilities Requirement for Comprehensive Modernization Project dated 12/24/15 in Appendix D. The following buildings are impacted by the scope of work:

1. Administrative & Academic Building (001BBJ)
2. Cafeteria Building (002CAJ)
3. Assembly Building (003BBJ)
4. Storage Unit # 2 (004DON)
5. Boys Gymnasium Building (005BAN)
6. Girls Gymnasium Building (006BAN)
7. Power Vault Building (007COOE)
8. Hash House / Lunch Service (008DAF)
9. Mechanical Arts Building (009BAJ)
10. Music Building (010DAM)
11. Home Making Building (011DAP)
12. Storage Unit # 1 (012DON)
13. Flammable Storage Unit # 2 (013BON)
14. Flammable Storage Unit # 1 (014BON)
15. Pump Vault (015DON)
16. Industrial Arts Building (016BAN)
17. Green House (017SON)
18. Storage Unit #3 (Former M0139L) (018HOL)
19. Sanitary Unit under Bleachers (019GAG)
20. Storage Unit # 4 (020DOP)

21. Flammable Storage Unit # 3 (021BOP)
22. Metal Shop Building (023DAP)
23. Science & Classroom Building (025BES)
24. Standard Classroom Relocatable (A0497L)
25. Standard Classroom Relocatable (A0548M)
26. Standard Classroom Relocatable (A1245W)
27. Standard Classroom Relocatable (A1246W)
28. Standard Classroom Relocatable (A1247W)
29. Standard Classroom Relocatable (A1248W)
30. Storage Relocatable (M0607L)
31. Lunch Shelter (Former M0538K) (P0191K)
32. 2/3 Unit Relocatable (X0217J)
33. 2/3 Unit Relocatable (X0243J)
34. 2/3 Unit Relocatable (X0306L)
35. 2/3 Unit Relocatable (X0323L)
36. 2/3 Unit Relocatable (X0909M)
37. 2/3 Unit Relocatable (X0960M)
38. 2/3 Unit Relocatable (X2096P)
39. 2/3 Unit Relocatable (X2260P)
40. 2/3 Unit Relocatable (X2382P)
41. Sanitary Relocatable Building (8714-RR)
42. 2/3 Unit Relocatable (8714-40) – Manufactured by Pacesetter, Inc. in 1999.
43. 2/3 Unit Relocatable (8714-42) – Manufactured by Pacesetter, Inc. in 1999.
44. 2/3 Unit Relocatable (8714-44) – Manufactured by Pacesetter, Inc. in 1999.
45. Grounds (000000)

III. Visual Survey, Sampling Methodology, and Analytical Procedures

The first step in the field survey process was to conduct a visual inventory of building construction materials. During the inventory, building materials suspected of containing asbestos were categorized by homogeneous areas (HA). "Homogeneous areas" consist of groupings of materials that have uniform appearances, textures, and installation dates.

Representative bulk samples were collected as required in general accordance with Federal, State, and local regulations for conducting asbestos surveys to meet OSHA and USEPA/AHERA requirements. Each sample location will be noted on a not-to-scale field drawing. The samples will be submitted to the Office of Environmental Health and Safety (OEHS) laboratory in Los Angeles, California, for analysis.

Following the inventory, a sampling strategy was developed and bulk samples were collected. Random bulk samples were collected utilizing protocol outlined in the Environmental Protection Agency's guidance document "Guidance for Controlling Asbestos-Containing Materials in Buildings" (EPA 560/5-85-024, 1985); EPA 40 CFR Part 763, Asbestos Containing Materials in Schools, Final Rule; EPA guidance document "Asbestos in Buildings; Simplified Sampling Scheme for Friable Surfacing Materials" (EPA 560/5-85-030a, 1985). In addition, bulk sampling protocols met or exceeded those set forth by EPA

and Occupational Safety and Health Administration (OSHA) regulation as well as the South Coast Air Quality Management District (SCAQMD) Rule 1403.

IV. Discussion of Survey Findings and Recommendations

The tables below include materials that are anticipated to be impacted during the project.

1. Admin & Academic Building (001BBJ)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Brown Coat Sand Plaster Ceiling (ACM)	Locations: Throughout Building (above Ceiling Tile) Scope of Impact: Renovation	906132 → 906136 (5/19/88)
2. Brown Coat Sand Plaster Debris (ACM)	Locations: In Ceiling Space above 2nd Floor Classrooms Scope of Impact: Renovation	1611-0450 → 1611-0452 (11/10/16)
3. Acoustical Plaster Wall (ACM)	Locations: Library (above bookshelves) Scope of Impact: Renovation	934508 → 934512 (6/25/91)
4. 12"x12" Green Floor Tile with Mastic (ACM)	Locations: Room 228 Scope of Impact: Renovation	0504-0109 → 0504-0111 (4/1/05)
5. 12"x12" White Floor Tile with Mastic (ACM)	Locations: Room 228 Scope of Impact: Renovation	0504-0112 → 0504-0114 (4/1/05)
6. 12"x12" Bright Yellow Floor Tile with Mastic (ACM)	Locations: Room 228 Scope of Impact: Renovation	0504-0115 → 0504-0117 (4/1/05)
7. 9"x9" Green w/ White Streaks Floor Tile with Mastic (ACM)	Locations: Women Faculty Restroom Scope of Impact: Renovation	0301-3410 → 0301-3412 (1-22-03)
8. Black Parapet Wall (ACM)	Locations: High Roof (Library's Roof), Center Roof (between Building 1 & 4) Scope of Impact: Renovation	1609-0553 → 1609-0555 (9/22/16) 1609-0565 → 1609-0567 (9/22/16)
9. Air-0-cell Pipe Insulation (ACM)	Locations: Between Walls in Attic Access through Room 231 & Hopper Room Scope of Impact: Renovation	0405-0774, 0405-0775 (5/18/04)
10. 9"x9" Dark Brown w/ Tan Streaks Floor Tile with Mastic (Assumed-ACM)	Locations: Storage Room (next to Room 134) Scope of Impact: Renovation	No access.
11. Terrazzo/water Proofing membrane (Assumed-ACM)	Locations: Admin Building – 1st Floor Lobby, Corridors, Lobby, Northwest-Vestibule, Stairs, and Men's Faculty Restroom Scope of Impact: Renovation	N/A
12. Gasket (Assumed-ACM)	Locations: Crawlspace Scope of Impact: Renovation	N/A

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1.	Sand Plaster Ceiling	Locations: Storage Rooms Scope of Impact: Renovation	946627 → 946629 (12/17/92)
2.	Smooth Plaster Ceiling	Locations: Library Restroom, Stairs in Library Office, Restroom Scope of Impact: Renovation	913776 → 913781 (5/5/89) 934516 → 934518 (6/25/91) 946630 →946632 (12/17/92)
3.	Un-painted Drywall w/ Joint Compound (above Ceiling)	Locations: 1st and 2nd Floor Hallways, Main Office area, Writing Room Scope of Impact: Renovation	0505-0724 → 0505-0726 (5/10/05) 1610-0611 → 1610-0613 (10/13/16)
4.	Drywall Ceiling w/ Joint Compound	Locations: 1st and 2nd Floor Hallways (above Ceiling Tile) Scope of Impact: Renovation	1611-0418 → 1611-0422 (11/10/16)
5.	2'x4' Fissured Ceiling tile	Locations: Main Office Areas Scope of Impact: Renovation	C1, C2, C3, C4, C5, C6, C7 (3/25/88))
6.	2'x4' Random Hole Ceiling Tile	Locations: Workroom, Attendance Room, Counselors Office Scope of Impact: Renovation	0707-0548 → 0707-0550 (7/27/07)
7.	2'x2' Fissured Ceiling Tile	Locations: Health Office, College Center, Faculty Lounge Scope of Impact: Renovation	0209-0529 → 0209-0531 (9/2/02)
8.	12"x12" Fissured Ceiling Tile w/ Mastic	Locations: 1st and 2nd Floor Hallways Scope of Impact: Renovation	0505-0727 → 0505-0729 (5/10/05)
9.	Drywall Ceiling w/ Joint Compound above Ceiling Tile	Locations: 1st and 2nd Floor Hallways Scope of Impact: Renovation	1611-0418 → 1611-0422 (11/10/16)
10.	12"x12" Straight Hole Ceiling Tile (nailed-on)	Locations: Classrooms, Restrooms, and Offices Scope of Impact: Renovation	0510-2507 → 0510-2512 (10/18/05)
11.	12"x12" Random Hole Ceiling tile (nailed-on)	Locations: 2nd Floor – North Boy Restroom Scope of Impact: Renovation	0707-0551, 0707-0552, 0707-0553 (7/27/07)
12.	Sand Plaster Wall	Locations: 1st Floor Main Office Areas, Storage Rooms, 2nd Floor Classrooms, 1st & 2nd Floor Hallways Scope of Impact: Renovation	0805-1664 → 0805-1666, 0805-1670 → 0805-1672, 0805-1682 → 0805-1684, 0805-1700 → 0805-1709 (5/9/08) 0002-0178 → 0002-0180 (2/3/00)
13.	Drywall Wall with Joint Compound	Locations: East & West Walls in Main Office, Attendance Office, Elevator Shaft, Hallway at Water Fountain Scope of Impact: Renovation	0805-1673 → 0805-1675 (5/9/08) 0802-0809, 0802-0810, 0802-0811 (2/13/08) 1611-0423 → 1611-0425 (11/10/16)
14.	Drywall Wall with Rough Plaster Skim coat	Locations: Adult School Office, College Center Scope of Impact: Renovation	0805-1679 → 0805-1681, 0805-1688 → 0805-1690 (5/9/08)

15.	Smooth Plaster Wall (Soft)	Locations: Library – on Columns Scope of Impact: Renovation	1611-0444 → 1611-0446 (11/10/16)
16.	Smooth Plaster Wall (Hard)	Locations: Library – on Walls Scope of Impact: Renovation	1611-0447 → 1611-0449 (11/10/16)
17.	Wall Board and Debris (powder)	Locations: Principal Office Scope of Impact: Renovation	981161 → 981163 (7/7/95)
18.	Green w/ Tan Carpet w/ Adhesive	Locations: Main Office, A.P. Office, Conference Room, 2nd Floor – Library Scope of Impact: Renovation	New (2007)
19.	Blue Carpet w/ Adhesive	Locations: Main Office, Principal Office, Assistant Principal Office, Conference Room, Goal Office Scope of Impact: Renovation	0305-2338 → 0305-2341 (5/19/03)
20.	Yellow Carpet w/ Adhesive	Locations: Title I Office, Adult School Office, Attendance Office Scope of Impact: Renovation	0805-1676 → 0805-1678, 0805-1691 → 0805-1696 (5/9/08)
21.	Purple/Gray Carpet w/ Adhesive	Locations: Academic Building, Admin-Dean Office Scope of Impact: Renovation	1108-0149 → 1108-0151 (8/16/11)
22.	Light Brown Carpet w/ Yellow Adhesive	Locations: Library Scope of Impact: Renovation	1611-0441 → 1611-0443 (11/10/16)
23.	12"x12" Light Brown w/ Dark Brown Streaks Floor Tile with Mastic	Locations: Attendance Office, Counseling Office, Main Office, Dean Office, Hallway, Assistant Principal Office, Chapter I Office, Deans Office, Library Workroom, Library Office, Room 203 Scope of Impact: Renovation	0301-3367 → 0301-3372 (1/21/03)
24.	Brown Floor Sheeting with Mastic	Locations: Rooms 202, 203, 205, 206, 207, 225, 226, between 227, 228, 229, 231 Scope of Impact: Renovation	934513 → 934515 (6/25/91)
25.	12"x12" Dark Gold Floor Tile w/ Mastic	Locations: Dean Office, Attendance Office Scope of Impact: Renovation	0805-1667 → 0805-1669 (5/9/08)
26.	12"x12" Light Green w/ Dark Green Décor Floor Tile	Locations: 1st Floor – Main Office Waiting Area, Classrooms, and Hallways outside Classrooms Scope of Impact: Renovation	New (2006)
27.	12"x12" Green Floor Tile with Mastic	Locations: Rooms 225, 226, 227, 229, 230, 231, 231B, 233, 234-Office, 237 Scope of Impact: Renovation	0805-1697 → 0805-1699 (5/9/08)
28.	12"x12" Beige w/ Brown Streaks Floor Tile w/ Yellow Mastic	Locations: Dean Office Scope of Impact: Renovation	1611-0432 → 1611-0434 (11/10/16)

29.	12"x12" Pale Green Floor Tile w/ Yellow Mastic	Locations: Main Office, Main Office Hallway Scope of Impact: Renovation	1611-0435 → 1611-0437 (11/10/16)
30.	12"x12" Blue Floor Tile w/ Yellow Mastic	Locations: 1st Floor Classroom across Main Office Scope of Impact: Renovation	1611-0438 → 1611-0440 (11/10/16)
31.	6" Green Cove Base with Adhesive	Locations: Main Office, Assistant Principal Office, Conference Room, 1st and 2nd Floor Hallways, College Center Scope of Impact: Renovation	0805-1685 → 0805-1687 (5/9/08)
32.	4" Green Cove Base with Adhesive	2nd Floor – Library w/ Bookroom & Office Scope of Impact: Renovation	New (2007)
33.	6" Brown Cove Base with Adhesive	Locations: Deans Office, Main Office, Attendance Office, Counseling Office, Adult Office Scope of Impact: Renovation	1011-0030 → 1011-0032 (11/3/10)
34.	Ceramic Floor Tile	Locations; Men & Women Faculty Restrooms Scope of Impact: Renovation	Non-suspect.
35.	Concrete Floor	Locations: Administrative Building – 2nd Floor Stairwells Scope of Impact: Renovation	Non-suspect.
36.	Fiberglass Pipe Insulation Wrap	Locations: Attic Scope of Impact: Renovation	936987 → 936989 (11/25/91)
37.	Window Putty	Locations: Exterior Scope of Impact: Renovation	B133, B134, B141, B142, B143 (3/8/02) 9607-0678 (7/31/96)
38.	Roofing Debris	Locations: Attic – Adjacent to Rom 231, Ceiling Space Boys Restroom Scope of Impact: Renovation	0709-0224, 0709-0225, 0709-0226 (9/7/07) By point count 0505-0733 → 0505-0735 (5/11/05)
39.	Exterior Stucco/Texture Coat	Locations: Exterior Walls (no moisture barrier paper) Scope of Impact: Renovation	B130, B131, B132, B138, B139, B140 (3/8/02)
40.	Exterior Stucco/Texture Coat	Locations: Administration Arcade – Retaining Walls (no moisture barrier paper) Scope of Impact: Renovation	B156, B157, B158, B175, B177 (3/8/02)
41.	Exterior Stucco/Texture Coat	Locations: Academic Arcade to Mechanical Arts Building (no moisture barrier paper) Scope of Impact: Renovation	B159, B160, B161 (3/8/02)
42.	Roofing Debris	Locations: Ceiling Space above Boys Restroom Scope of Impact: Renovation	0709-0224 → 0709-0226 (9/7/07) by point count
43.	Black Roofing Tar	Locations: Roof Scope of Impact: Renovation	B135, B136, B137, B144, B145, B146 (3/8/02)
44.	Black Rolled Roof	Locations: Main Roof (Building # 1) Scope of Impact: Renovation	1609-0530 → 1609-0532 (9/22/16)
45.	Black Parapet Wall	Locations: Main Roof (Building # 1) Scope of Impact: Renovation	1609-0533 → 1609-0535 (9/22/16)

46.	Black Penetration Mastic	Locations: Main Roof (Building # 1) – at Kick sheet seam, flashing, and roof patch Scope of Impact: Renovation	1609-0536 → 1609-0539 (9/22/16)
47.	Black Roof Mastic	Locations: Main Roof (Building # 1) – at Walking Pad and Raceway Scope of Impact: Renovation	1609-0540 → 1609-0543 (9/22/16)
48.	Black Kick sheet	Locations: Main Roof (Building # 1) Scope of Impact: Renovation	1609-0544 → 1609-0546 (9/22/16)
49.	Cream/Off-White HVAC Base Sealant	Locations: Main Roof (Building # 1) Scope of Impact: Renovation	1609-0547 → 1609-0549 (9/22/16)
50.	Black Rolled Roof	Locations: High Roof (Library's Roof) Scope of Impact: Renovation	1609-0550 → 1609-0552 (9/22/16)
51.	Black Penetration Mastic	Locations: High Roof (Library's Roof) – at flashing and Parapet Seam Scope of Impact: Renovation	1609-0556 → 1609-0558 (9/22/16)
52.	Cream/Off-White Sealant	Locations: High roof (Library's Roof) – at South Parapet Wall Scope of Impact: Renovation	1609-0559 → 1609-0561 (9/22/16)
53.	Black Rolled Roof	Locations: Center Roof (between Buildings #1and #4) Scope of Impact: Renovation	1609-0562 → 1609-0564 (9/22/16)
54.	Black Penetration Mastic	Locations: Center Roof (between Buildings #1and #4) – at Flashing and Roof patch Scope of Impact: Renovation	1609-0568 → 1609-0570 (9/22/16)
55.	Black Rolled Roof	Locations: Building #4 Roof Scope of Impact: Renovation	1609-0571 → 1609-0573 (9/22/16)
56.	Black Parapet Wall	Locations: Building #4 Roof Scope of Impact: Renovation	1609-0574 → 1609-0576 (9/22/16)
57.	Black Parapet Wall	Locations: Building #4 Roof Scope of Impact: Renovation	1609-0574 → 1609-0576 (9/22/16)
58.	Black Roof Kick Sheet	Locations: Building #4 Roof Scope of Impact: Renovation	1609-0577 → 1609-0579 (9/22/16)
59.	Black Roof Mastic	Locations: Building #4 Roof – at Walking Pad Scope of Impact: Renovation	1609-0580 → 1609-0582 (9/22/16)
60.	Black Roof Mastic	Locations: Building #4 Roof – at Kicksheet Seam, Parapet Wall Seam, and Flashing	1609-0583 → 1609-0586 (9/22/16)
61.	Beige Vibration Reducer	Locations: Building #4 Roof Scope of Impact: Renovation	1609-0587 (9/22/16)
62.	Cream/Off-White Sealant	Locations: Building #4 Roof – at HVAC Base Unit Scope of Impact: Renovation	1609-0588 → 1609-0590 (9/22/16)

63. Black Foam Insulation	Locations: Building # 4 Roof – on Pipe/Tank Scope of Impact: Renovation	1609-0591 → 1609-0593 (9/22/16)
64. Beige Foam Insulation	Locations: Building # 4 Roof – on Tank Scope of Impact: Renovation	1609-0594 → 1609-0596 (9/22/16)
65. Raceway Mastic	Locations: Building # 4 Roof Scope of Impact: Renovation	1609-0597 (9/22/16)
66. Beige Vibration Reducer	Locations: Building # 4 Roof Scope of Impact: Renovation	1609-0598 (9/22/16)
67. Black Rolled Roof (Cored)	Locations: Southwest Arcade Scope of Impact: Renovation	1611-0453 → 1611-0455 (11/10/16)
68. Black Roof Parapet Wall (Cored)	Locations: Southwest Arcade Scope of Impact: Renovation	1611-0456 → 1611-0458 (11/10/16)
69. Grey Roof Flashing Caulking	Locations: Southwest Arcade Scope of Impact: Renovation	1611-0459 (11/10/16)
70. Grey HVAC Duct Seam Sealant	Locations: 2nd Floor Hallway Scope of Impact: Renovation	1611-0426 → 1611-0428 (11/10/16)
71. Black Wall Moisture Barrier Paper behind Ceramic Tile	Locations: 2nd Floor Boys & Girls Restrooms Scope of Impact: Renovation	1611-0429 → 1611-0431 (11/10/16
72. Fire Door Insulation	Locations: 2nd Floor Southwest Hopper Room Scope of Impact: Renovation	1702-1036 (2/21/17)
73. 10" O.D Brown Cement Pipe Fume Hood	Locations: Room 230 Scope of Impact: Renovation	1702-1037 (2/21/17)

C. Recommendations for handling ACM *and/or* ACCM:

1. Brown Coat Sand Plaster Ceiling and Debris, Acoustical Plaster Wall, and Air-O-Cell Pipe Insulation (ACM): and, Terrazzo/Water Proofing Membrane and Gasket (Assumed-ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. 12"x12" Green, White, and Bright White Floor Tile w/ Mastic, 9"x9" Green w/ White Streaks Floor Tile w/ mastic (ACM), and 9"x9" Dark Brown w/ Tan Streak Floor tile w/ Mastic (Assumed-ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

3. Black Roof Parapet Wall (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. (ACM) Acoustical Plaster Ceiling was removed from 1st & 2nd Floor Hallways and Offices on 11/23/92.
2. Wood fire door is located at Northwest of the building. No fire door was observed in the Workroom.
3. No Cement Board (Transite) was observed in 1st Floor Main Office, Bilingual Room, Beyond the Bell Room, and Telephone Room.
4. No access to ceiling attic space above Men Faculty Lounge in Admin Building # 1.
5. (ACM) Brown Coat Sand Plaster Debris was observed throughout 2nd floor ceiling space above Classrooms.
6. Crawlspace:
   a. The crawlspace was abated previously and green encapsulation was observed. No other suspect material was found.
7. This building is scheduled for renovation.

2. Cafeteria Building (002CAJ)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Acoustical Plaster Ceiling (ACM)	Locations: Faculty Dining Room Scope of Impact: Renovation	946525 → 946531 (12/11/92) 946560 → 946562 (12/11/92)
2. Pipe Insulation (ACM)	Locations: Kitchen Wall Cavity (behind sink), and Tunnel Scope of Impact: Renovation	1702-1038 (2/21/17)
3. 4" O.D Off-White Pipe Elbow Insulation (ACM)	Locations: Underground Water Pump Chamber Scope of Impact: Renovation	1611-0125 (10/18/16)
4. Exterior Stucco/Dash Coat (ACM)	Locations: Exterior Scope of Impact: Renovation	1, 2 (1/15/02) and 1, 2, 3 (2/28/02) 946412 → 946414 (12/01/92)
5. Gaskets (Assumed-ACM)	Locations: Hopper Room Scope of Impact: Renovation	N/A

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Sand Plaster Ceiling	Locations: East & South Entries, Kitchen Storage Room Scope of Impact: Renovation	946545 → 946547 (12/11/92)
2. Smooth Plaster Ceiling	Locations: Home-making Classroom, Kitchen Areas Scope of Impact: Renovation	946553 → 946559 (12/11/92) 947606 → 947608 (3/5/93)
3. Drywall Ceiling with Joint Compound	Locations: Student Dining Room Scope of Impact: Renovation	New 2009
4. 2'x4' Black Ceiling Panel	Locations: Student Dining Room Scope of Impact: Renovation	New 2009
5. 12"x12" Straight Hole Ceiling Tile w/ Brown Mastic	Locations: Home-making Classroom, Faculty Dining Room, Dish-Washing Room Scope of Impact: Renovation	946548 → 946552 (12/11/92) 1611-0114 → 1611-0116 (10/8/16)
6. Sand Plaster Wall	Locations: Kitchen Hopper Room Scope of Impact: Renovation	3, 4, 5 (1/15/02) 0505-0715 → 0505-0717 (5/9/05)
7. Smooth Plaster Wall	Locations: Serving Areas, Entry, Hallway, Home-making Classroom, Kitchen Area, Dish Washing Room Scope of Impact: Renovation	946566 → 946572 (12/11/92) 947603 → 947605 (3/5/93)
8. Drywall Wall w/ Joint Compound	Locations: Locker Room, Faculty Restroom, Student Dining Room Scope of Impact: Renovation	1611-0111 → 1611-0113 (10/18/16)
9. Red Epoxy Floor Coating	Locations: Kitchen Areas, Boys & Girls Restrooms, Kitchen Entry, Office, & Storage, Student Serving Area, Heating & Ventilating Room Scope of Impact: Renovation	1611-0108 → 1611-0110 (10/18/16)

10. 12"x12" Gold/Yellow Floor Tile w/ Black Mastic	Locations: Faculty Dining Room Scope of Impact: Renovation	946539 → 946541 (12/11/92) 1611-0105 → 1611-0107 (10/18/16)
11. 12"x12" Yellow Floor Tile w/ Black Mastic	Locations: Student Dining Room, Home-making Classroom, Faculty Serving Area, and Hallway Scope of Impact: Renovation	1611-0120 → 1611-0122 (10/18/16)
12. 12"x12" Green Floor Tile w/ Black Mastic	Locations: Student Dining Room, Home-making Classroom, Faculty Serving Area, and Hallway Scope of Impact: Renovation	1611-0117 → 1611-0119 (10/18/16) 946542 → 946544 (12/11/92)
13. Purple Sheet Flooring w/ Mastic & Leveling Material (Patch)	Locations: Student Dining Room – Circle Area only Scope of Impact: Renovation	1611-0123 (10/18/16)
14. Beige Non-Slip Floor Texture	Locations: Student Dining Room, Student Food Service Scope of Impact: Renovation	New 2009
15. Fiberglass Pipe/HVAC Insulation (HVAC)	Locations: Student Dining Room Scope of Impact: Renovation	New 2009 Non-suspect.
16. Fiberglass Pipe and Elbow Insulation	Locations: Attic and New Suspended Ceiling in Student Dining Room, Hopper Room Scope of Impact: Renovation	New 2009 Non-suspect.
17. Fiberglass Tank Insulation	Locations: Water Tank Room Scope of Impact: Renovation	Non-suspect.
18. Beige Stucco/Dash coat	Locations: Arcade – Retaining Walls Scope of Impact: Renovation	B174, B176, B178, B179 (3/8/02)
19. Beige Dash Coat	Locations: South Arcade and East Arcade – on Walls and columns Scope of Impact: Renovation	9701-0329 → 9701-0331 (1/13/97) 1610-0534 → 1610-0536 (10/13/16)
20. Window Putty	Locations: Exterior Scope of Impact: Renovation	B127, B128, B129 (3/8/02) by Point count
21. Molding Firtex	Locations: Student Dining Area Scope of Impact: Renovation	G1, G2, G3 (3/23/88)
22. Walking Pad w/ Black Mastic	Locations: Roof Scope of Impact: Renovation	1610-0276 → 1610-0278 (10/5/16)
23. Grey/Black Roof Mastic	Locations: Roof - Kicksheet Seam, Flashing, Pitch Pocket, Raceway, HVAC Seam Scope of Impact: Renovation	1610-0279 → 1610-0282, 1610-0286 (10/5/16)
24. Beige Parapet Caulking	Locations: Roof Scope of Impact: Renovation	1610-0283 → 1610-0285 (10/5/16)
25. Black Rolled Roof (Cored)	Locations: South Arcade and East Arcade Scope of Impact: Renovation	1610-0519 → 1610-0521 (10/13/16)

26. Grey Roof Penetration Mastic	Locations: South Arcade (between Building 001BBJ & 002CAJ) Scope of Impact: Renovation	1610-0522 → 1610-0524 (10/13/16)
27. White Roof Sealant on Metal Flashing	Locations: South Arcade and East Arcade Scope of Impact: Renovation	1610-0525→ 1610-0527 (10/13/16)
28. Beige Stucco Ceiling	Locations: South Arcade and East Arcade Scope of Impact: Renovation	1610-0528→ 1610-0530 (10/13/16)
29. Black Moisture Barrier Paper above Stucco Ceiling	Locations: South Arcade and East Arcade Scope of Impact: Renovation	1610-0531→ 1610-0533 (10/13/16)
30. Beige Dash Coat	Locations: South Arcade and East Arcade – on Walls and column Scope of Impact: Renovation	1610-0534→ 1610-0536 (10/13/16)
31. Plaster Ceiling Debris	Locations: Attic above Faculty Dining Scope of Impact: Renovation	1611-0102 → 1611-0104 (10/18/16)
32. Brown/Black Canvas Pipe Wrap(10" O.D)	Locations: Underground Water Pump Chamber Scope of Impact: Renovation	1611-0124 (10/18/16)
33 Black Rolled Roof (Cored)	Locations: Exterior Storage Scope of Impact: Renovation	1611-0395 → 1611-0397 (11/10/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Acoustical Plaster Ceiling, Pipe Elbow & Straight Run Insulation, and Exterior Stucco/Dash Coat (ACM); and, Gasket (Assumed-ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. Non-ACM 12"x12" Random Ceiling Tile in Student Dining Room was removed previously.

2. Wood fire door is located at North side of the building. No suspect material was observed.

3. All ACM and non-ACM in the attic space had been removed on 7/22/08. Fiberglass pipe insulation was observed in the attic.

4. Crawlspace:

   a. PVC pipe elbows and fiberglass pipe insulation were observed. No suspect material or debris was observed. "Danger" label was observed at the wood critical barrier/entrance to the tunnel from inside the building crawlspace.

5. This building is scheduled for renovation.

3. Assembly Building (003BBJ)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Acoustical Plaster Ceiling (ACM)	Locations: Auditorium/Assembly Room and Lobby (above 12"x12" random ceiling tile) Scope of Impact: Renovation	0502-1099 → 0502-1105 (2/9/05)
2. 12"x12" Random Ceiling Tile and Mastic (ACCM)	Locations: Auditorium/Assembly Room and Lobby Scope of Impact: Renovation	0502-1093 →0502-1098 (2/9/05)
3. Acoustical Plaster Wall (ACM)	Locations: Auditorium/Assembly room (behind wall tile) Scope of Impact: Renovation	9912-0421 → 9912-0423 (12/9/99)
4. Black Mastic associated with 12"x12" Beige/Light Green Floor Tile w/ Yellow Mastic (ACM)	Locations: Boys Dressing Room Scope of Impact: Renovation	1611-0389 → 1611-0391 (11/10/16)
5. 9"x9" Light Brown/ White Floor Tile w/ Black Mastic (ACM)	Locations: Girls Dressing Rooms Scope of Impact: Renovation	0911-0769 → 0911-0771 (11/18/09)
6. Pipe Insulation (ACM)	Locations: Girls Restroom Room Scope of Impact: Renovation	H1, H2, H3 (3/23/88)
7. Terrazzo/water Proofing membrane (Assumed-ACM)	Locations: Auditorium/Assembly – Foyer Room Scope of Impact: Renovation	N/A
8. Waterproofing Membrane (Assumed-ACM)	Locations: Auditorium/Assembly – South Boys & Girls Restrooms (under ceramic floor tile) Scope of Impact: Provide restroom modifications to meet ADA compliance	N/A

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Smooth Plaster Ceiling	Locations: Throughout Building Scope of Impact: Renovation	A1, A2, A3, A4, A5, A6, A7 (3/23/88)
2. Smooth Plaster Wall	Locations: 1st floor Restrooms, Lobby/Entry Scope of Impact: Renovation	0707-0473 → 0707-0477 (7/25/07)
3. Sand Plaster Wall	Locations: Throughout Building Scope of Impact: Renovation	B1, B2, B3, B4, B5, B6, B7 (3/23/88) 0805-1170 → 0805-1172 (5/9/08)
4. 12"x12" Random Wall Tile and Mastic	Locations: Auditorium/Assembly Room - South Wall Scope of Impact: Renovation	9912-0418 → 9912-0420 (12/9/99) 3 (7/25/07)

5. Green Tread Flooring w/ Yellow Mastic	Locations: Auditorium/Assembly Room Scope of Impact: Provide access to Main Entrance, Auditorium, and Stage	1611-0383 → 1611-0385 (11/10/16)
6. 12"x12" Green & Yellow Décor Floor Tile w/ Yellow Adhesive	Locations: Auditorium/Assembly Room Scope of Impact: Provide access to Main Entrance, Auditorium, and Stage	New 2012.
7. 12"x12" Off White w/ Black & Green Floor Tile	Locations: Auditorium/Assembly Aisles Scope of Impact: Provide access to Main Entrance, Auditorium, and Stage	New 2008.
8. Concrete Floor	Locations: Assembly - North Boys & Girls Restrooms Scope of Impact: Provide restroom modifications to meet ADA compliance	Non-suspect.
9. Ceramic Floor Tile	Locations: Assembly – South Boys & Girls Restrooms Scope of Impact: Provide restroom modifications to meet ADA compliance	Non-suspect.
10. Window Putty	Locations: Exterior Scope of Impact: Renovation	B121, B122, B123 (3/7/02)
11. Exterior Stucco/Texture Coat	Locations: Exterior Walls Scope of Impact: Provide access to Main Entrance, Auditorium, and Stage	B118, B119, B120 (3/7/02)
12. Exterior Stucco/Texture Coat	Locations: Arcades Scope of Impact: Provide access to Main Entrance, Auditorium, and Stage	B147, B148, B149 (3/7/02) by point count
13. Exterior Stucco/Texture Coat	Locations: Arcades-Cafeteria to Arcade Administrative Building Scope of Impact: Provide access to Main Entrance, Auditorium, and Stage	B150, B151, B152 (3/7/02)
14. Exterior Stucco/Texture Coat	Locations: Arcades-Cafeteria to Arcade Academic Building Scope of Impact: Provide access to Main Entrance, Auditorium, and Stage	B153, B154, B155 (3/7/02)
15. Yellow Dash Coat	Locations: Portico Ceiling Scope of Impact: Renovation	1611-0386 → 1611-0388 (11/10/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Acoustical Plaster Ceiling and Acoustical Plaster Walls (ACM), 12"X12" Random Ceiling Tile and Mastic (ACCM), and Pipe Insulation (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. 9"x9" Light Brown/White Floor w/ Black Mastic and 12"x12"" Beige/Light Green Floor Tile w/ Yellow/Black Mastic (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

3. Terrazzo Flooring, Water Proofing Membrane under Terrazzo and Ceramic Floor Tile (Assumed-ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. Non-ACM Cork Flooring w/ Adhesive was removed from Auditorium/Assembly Room on 10/24/04. Citadel spot-checked under new floor tiles in the Auditorium/Assembly Room, no black residue mastic was found.

2. No attic or ceiling space found above restroom areas. (ACM) damaged 10" O.D pipe insulation was observed in the wall cavity of the Northeast Girls Restroom.

3. Crawlspace below South Restroom – area had been abated and cleaned up previously and label was posted on 07/10/08 by FETU. No suspect material or debris was observed by Citadel during the survey period.

4. This building will be potentially scheduled for renovation.

4. Storage Unit # 2 Building (004DON)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Exterior Stucco / Texture Coat	Locations: Exterior Walls Scope of Impact: Removal	B97, B98, B99 (3/7/02) By Point Count
2. Black Wall Barrier Paper	Locations: Storage Room Scope of Impact: Removal	0707-0545 → 0707-0547 (7/27/07) By Point Count
3. Grey Foam Roof (Cored)	Locations: Roof Scope of Impact: Removal	1610-0244 → 1610-0246 (9/28/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. No attic, ceiling space, or crawlspace was found in this building.

2. This building is scheduled for demolition.

5. Boys Gymnasium Building (005BAN)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Green Carpet Mastic (ACM)	Locations: Weight Room Scope of Impact: Removal	1108-0141, 1108-0142, 1108-0143 (8/16/11)
2. Black Floor Tile Adhesive (ACM)	Locations: Weight Room Scope of Impact: Removal	0211-0744 → 0211-0748 (11/7/02)
3. 2'x2' Green/Black Rubber Floor Tile w/ Yellow/Black Residue Mastic (ACM)	Locations: North Weight Room Scope of Impact: Removal	1611-0331 → 1611-0333 (11/7/16)
4. 9"x9" Red/White Streaks Floor Tile w/ Black Mastic (ACM)	Locations: Auditorium Scope of Impact: Removal	1108-0144 → 1108-0148 (8/16/11)
5. Pipe Insulation Debris (ACM)	Locations: Main Gym - HVAC Soffit Scope of Impact: Removal	1303-0079 (3/6/13)
6. 9"x9" Gray w/ Black Streaks Floor Tile w/ Black Mastic (ACM)	Locations: Girls Restroom Entrance @ Gym Foyer, Evening School Offices Scope of Impact: Removal	0511-1422 → 0511-1424 (11/10/05)
7. 12"x12" Brown w/ White Streaks Floor Tile w/ Black Mastic (ACM)	Locations: Gym Foyer Scope of Impact: Removal	0511-1416 → 0511-1418 (11/10/05)
8. 9"x9" Tan w/ Brown Streaks Floor Tile w/ Black Mastic (ACM)	Locations: Boys Restroom Entrance @ Gym Foyer Scope of Impact: Removal	0511-1419 → 0511-1421 (11/10/05)
9. 9"x9" Red Floor Tile w/ Black Mastic (ACM)	Locations: North Coaches Office Scope of Impact: Removal	1611-0340 (11/7/16)
10. 12"x12" Gold/Green Pattern Floor Tile w/ Black Mastic (ACM)	Locations: North Coaches Office & Reception Room Scope of Impact: Removal	1611-0341 – 1611-0343 (11/7/16)
11. 6" O.D Transite Pipe (ACM)	Locations: Boiler Room (Abandoned Pipe) Scope of Impact: Removal	1611-0356 (11/7/16)
12. 12" Grey Transite Panel (ACM)	Locations: Soffit above Basketball Court Scope of Impact: Removal	1611-0378 (11/7/16)
13. Black Roof Mastic under Foam Roof (ACM)	Locations: Main roof Scope of Impact: Removal	1610-0241 → 1610-0243 (10/5/16)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Sand Plaster Ceiling	Locations: Storage Utility, Foyer, Classrooms, Coach Office, Restrooms, Janitor Closet, Equipment room, Storage Rooms, Hallways Scope of Impact: Removal	B40, B41, B42 (1/18/02) 1611-0360 → 1611-0362 (11/7/16)
2. Drywall Ceiling	Locations: Soffit above Basketball Court Scope of Impact: Removal	1611-0372 → 1611-0374 (11/7/16)
3. White Compound Material on Drywall Ceiling	Locations: Soffit above Basketball Court Scope of Impact: Removal	1611-0375 → 1611-0377 (11/7/16)
4. 12"x12" Straight Hole Ceiling Tile and Mastic	Locations: Boys Gym Office, Weight Room, Restroom in Foyer, Coach Office, and Men & Women Restrooms Scope of Impact: Removal	H1, H2, H3 (3/23/88) 10, 11, 12, 13, 14, 15 (2/25/02) 1312-0443 → 1312-0148 (12/16/13)
5. 12"x12" Fissured Ceiling Tile w/ Brown Mastic	Locations: Foyer Scope of Impact: Removal	J1, J2, J3, J4, J5, J6, J7 (3/23/88) 1611-0363 → 1611-0365 (11/7/16)
6. 18"x36" Random Metal Ceiling Tile	Locations: Boys Main Gym Scope of Impact: Removal	Non-suspect.
7. 12"x12" Random Ceiling Tile	Locations: Room 154 Scope of Impact: Removal	1108-0168 → 1108-0170 (8/16/11)
8. Sand Plaster Wall	Locations: Boys Locker Room, Gym Hall, Restrooms Scope of Impact: Removal	16, 17, 18, 19, 20 (2/25/02)
9. Smooth Plaster Wall	Locations: Weight Room, Locker Room, Janitor Closet, Coaches Office, Storage Room, Faculty Locker	0211-0140 → 0211-0142 (11/6/02) 7 (1/18/02)
10. Drywall Wall w/ Joint Compound	Locations: East Storage Room Scope of Impact: Removal	1611-0350 → 1611-0352 (11/7/16)
11. 12"x12" Pinhole Wall Tile w/ Brown Mastic	Locations: Basketball Court Scope of Impact: Removal	1611-0357 → 1611-0359 (11/7/16)
12. Dark Brown Chalkboard Mastic	Locations: Weight Room Scope of Impact: Removal	0211-0137 → 0211-0139 (11/6/02)
13. Black Chalkboard Mastic	Locations: Weight Room Scope of Impact: Removal	1203-0088 →1203-0090 (3/8/12)
14. Multicolor Carpet with Mastic	Locations: Goal Office Scope of Impact: Removal	1108-0149 → 1108-0151 (8/16/11)
15. 12"x12" Light Green & Green Floor Tile with Adhesive	Locations: Gym Foyer, Men & Women Restrooms Scope of Impact: Removal	New 2009
16. Black 2'x2' Rubber Floor Tile w/ Yellow Mastic	Location: South Weight Room Scope of Impact: Removal	1611-0334 → 1611-0336 (11/7/16)

17. Blue/Green Epoxy Flooring	Locations: Hallways Scope of Impact: Removal	1611-0344 → 1611-0346 (11/7/16)
18. Black/Brown Floor Moisture Barrier Paper	Locations: Storage Room, Basketball Court, South Weight Room (under wood sub-floor) Scope of Impact: Removal	1403-0129 (3/6/14) 1611-0329, 1611-0330 (11/7/16) 1611-0337, 1611-0339 (11/7/16)
19. Exterior Dash Coat	Locations: Exterior Walls Scope of Impact: Removal	B43, B44, B45 (1/18/02)
20. Beige Exterior Stucco Wall	Locations: Ticket Booth Scope of Impact: Removal	1611-0366 → 1611-0368 (11/7/16)
21. Black/Brown Wall Moisture Barrier Paper	Locations: Ticket Booth (behind Stucco Walls) Scope of Impact: Removal	1611-0369 → 1611-0371 (11/7/16)
22. Black Roofing	Locations: East Roof Scope of Impact: Removal	B46, B47, B48 (1/18/02)
23. Black Roof Mastic	Locations: East Roof Scope of Impact: Removal	B49, B50, B51 (1/18/02)
24. Roof Tar	Locations: Boys Gym Scope of Impact: Removal	B162, B163, B164 (3/8/02)
25. Window Putty	Locations: Boys Gym Scope of Impact: Removal	B165, B166, B167 (3/8/02)
26. Off-White Tank Insulation	Locations: Boiler Room Scope of Impact: Removal	1611-0347, 1611-0349 (11/7/16)
27. Beige Duct Insulation	Locations: Boiler Room, East Storage Room Scope of Impact: Removal	1611-0353, 1611-0355 (11/7/16)
28. Black Rolled Roof (cored)	Locations: Low Roof (North Roof), High Roof, Northeast Portico, West Roof, Southeast Roof Scope of Impact: Removal	1609-0439 → 1609-0441 (9/20/16) 1609-0451 → 1609-0453 (9/20/16) 1609-0457 → 1609-0459 (9/20/16) 1609-0454 → 1609-0456 (9/20/16) 1609-0473 → 1604-0475 (9/20/16)
29. Black Kicksheet (cored)	Locations: Low Roof (North Roof); West Roof, East Roof, Scope of Impact: Removal	1609-0442 → 1609-0444 (9/20/16) 1609-0466 →1609-0469 (9/20/16)
30. Black Roof Penetration/Kicksheet Seam/Raceway/Parapet Wall Mastic	Locations: Low Roof (North Roof), West roof, Southeast Roof Scope of Impact: Removal	1609-0445 → 1609-0447 (9/20/16) 1609-0463 → 1609-0465 (9/20/16) 1609-0476 → 1609-0479 (9/20/16)
31. Cream/Off-White Sealant	Locations: Low Roof (North Roof) – on Vent Bases Scope of Impact: Removal	1609-0448 → 1609-0450 (9/20/16)
32. Roof Parapet (Cored)	Locations: West Roof Scope of Impact: Removal	1609-0460 → 1609-0462 (9/20/16)

33. Grey HVAC Duct Seam Sealant	Locations: East Roof Scope of Impact: Removal	1609-0470 →1609-0473 (9/20/16)
34. Grey Foam Roof (Cored)	Locations: Main Roof Scope of Impact: Removal	1610-0235 → 1610-0237 (10/5/16)
35. Grey Foam Kicksheet (Cored)	Locations: Main Roof Scope of Impact: Removal	1610-0238 → 1610-0240 (10/5/16)
36. Fiberglass Pipe Insulation	Locations: Hopper Attic (NE side) Scope of Impact: Removal	Non-suspect.

C. Recommendations for handling ACM *and/or* ACCM:

3. Pipe Insulation Debris, 6" O.D. Transite Pipe and 12" Grey Transite Panel (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

b. Green Carpet Mastic, Black Floor Tile Adhesive, 2'x2' Green/Black Rubber Floor Tile w/ Yellow & Black Residue Mastic, 9"x9" Red/White Streaks Floor Tile w/ Black Mastic, 9"x9" Gray w/ Black Streaks Floor Tile w/ Black Mastic, 12"x12" Brown w/ White Streaks Floor Tile w/ Black Mastic, 9"x9" Tan w/ Brown Streaks Floor Tile w/ Black Mastic, 9"x9" Red Floor Tile w/ Black Mastic and 12"x12" Gold/Green Pattern Floor Tile w/ Black Mastic (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

c. Black Roof Mastic under Foam Roof (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. Attic above South Foyer and Storage Room had been abated previously and blue encapsulation was observed at the time of the inspection. Clean label was posted by FETU on 4/14/09.
2. Approximately 20 linear feet of ACM 3" O.D pipe insulation was observed in damaged condition and pipe insulation debris was found throughout the Soffit area.
3. No ceiling space or crawlspace was found in this building.
4. Wood fire door is located at West side of the building. No suspect material was observed.
5. This building is scheduled for demolition.

6. Girls Gymnasium Building (006BAN)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Pipe & Elbow Insulation (ACM)	Locations: Girls Coaches Office Restroom, Locker Room, Hopper Room, Boiler Room Scope of Impact: Removal	7089 → 7096 (01/21/89)
2. 9"x9" Dark Brown & Solid Brown Floor Tile w/ Black mastic (ACM)	Locations: Coaches Office, Cot Room, Reception Room, First Aid Room, Health Education Classroom Scope of Impact: Removal	1610-0228 → 1610-0230 (9/28/16)
3. Mirror Mastic (Assumed-ACM)	Locations: Covered Walk Room Scope of Impact: Removal	N/A

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Sand Plaster Ceiling	Locations: North &South Foyers, South Locker Room, Coaches Office, Storage Room, First-Aid Room, Reception Room, Cot Room, Halls, Utility Room, Storage Room, Fan & Hopper Room Scope of Impact: Removal	B52, B53, B54, B55 (1/18/02) 0810-0409 → 0810-0413 (10/9/08)
2. 12"x12" Straight Ceiling Tile w/ Mastic	Locations: Coaches Office, Classroom & Workout room Scope of Impact: Removal	940247 → 940252 (3/29/92) 940261 → 940263 (6/1/92)
3. 12"x12" Random Hole Ceiling Tile w/ Light Brown Mastic	Locations: South Foyer, South Entry, Girls Restroom Scope of Impact: Removal	0810-0403 → 0810-0405 (10/9/08)
4. Drywall ceiling w/ Joint Compound	Locations: Dance Room Scope of Impact: Removal	0810-0406 → 0810-0408 (10/9/08)
5. Drywall above Ceiling Tile	Locations: Classroom & Workout Room Scope of Impact: Removal	940254 → 940260 (3/29/92)
6. Sand Plaster Wall	Locations: Throughout Building Scope of Impact: Removal	B56, B57, B58, B59, B60, B61, B62 (1/18/02)
7. Beige Wall Barrier Paper	Locations: Gym Scope of Impact: Removal	0311-0010 → 0311-0016 (11/3/03)
8. 12"x12" Light Green & Dark Green Floor Tile	Locations: Girls Gym Foyer Scope of Impact: Removal	New 2008
9. Light Green Epoxy Flooring	Locations: North Corridor, North Vestibule Scope of Impact: Removal	1610-0231 → 1610-0233 (9/28/16)

10. Concrete Floor	Locations: Switch Board room, East Corridor, Mechanical Room, Janitor Closet, Heating & Ventilating Room, East Vestibules, Girls Restroom, Shower Room, East Storages, Robe Room (Uniform), and East Entry Scope of Impact: Removal	Non-suspect.
11. Wood Floor (No Moisture Barrier Paper underneath)	Locations: Basketball Court (Exercise Room) Scope of Impact: Removal	Non-suspect.
12. Black Vibration Reducer	Locations: Roof Fan Room Scope of Impact: Removal	B63, B64, B65 (1/18/02)
13. Brown Vibration Reducer	Locations: Roof – Northeast Scope of Impact: Removal	1610-0234 (9/28/16)
14. Duct Insulation	Locations: 1st Floor – Girls Locker Room Scope of Impact: Removal	0511-1413 → 0511-1415 (11/10/05)
15. Exterior Dash Coat	Locations: Exterior Walls Scope of Impact: Removal	B72, B73, B74 (1/18/02) 1610-0224 → 1610-0227 (9/28/16)
16. Window Putty	Locations: Exterior Scope of Impact: Removal	B168, B169, B170 (3/8/02)
17. Black Roofing	Locations: North Roof Scope of Impact: Removal	B66, B67, B68 (1/18/02)
18. Black Roof Tar	Locations: Roof Scope of Impact: Removal	B165, B166, B167 (3/8/02)
19. Rolled Roof (Cored)	Locations: Roof – Overhang Scope of Impact: Removal	1610-0537 → 1610-0539 (10/7/16)
20. Rolled Roof (Cored)	Locations: South Roof Scope of Impact: Removal	1610-0540 → 1610-0542 (10/7/16)
21. Kick sheet (Cored)	Locations: South Roof Scope of Impact: Removal	1610-0543 → 1610-0545 (10/7/16)
22. Rolled Roof (Cored)	Locations: Far East Roof Scope of Impact: Removal	1610-0546 → 1610-0548 (10/7/16)
23. Kick sheet (Cored)	Locations: Far East Roof Scope of Impact: Removal	1610-0549 → 1610-0551 (10/7/16)
24. Grey HVAC Duct Seam Sealant	Locations: Far East Roof Scope of Impact: Removal	1610-0552 → 1610-0554 (10/7/16)
25. Black HVAC Vibration Reducer	Locations: Far East Roof Scope of Impact: Removal	1610-0555 (10/7/16)
26. Rolled Roof (Cored)	Locations: East Roof Scope of Impact: Removal	1610-0556 → 1610-0558 (10/7/16)

27. Kick sheet (Cored)	Locations: East Roof Scope of Impact: Removal	1610-0559 → 1610-0561 (10/7/16)
28. Grey HVAC Duct Seam Sealant	Locations: East Roof Scope of Impact: Removal	1610-0562 → 1610-0564 (10/7/16)
29. Kick sheet (Cored)	Locations: North Roof Scope of Impact: Removal	1610-0565 → 1610-0567 (10/7/16)
30. Rolled Roof (Cored)	Locations: North Roof Scope of Impact: Removal	1610-0568 → 1610-0570 (10/7/16)
31. Rolled Roof (Cored)	Locations: High Roof Scope of Impact: Removal	1610-0571→ 1610-0573 (10/7/16)
32. Kick sheet (Cored)	Locations: High Roof Scope of Impact: Removal	1610-0574 → 1610-0576 (10/7/16)
33. Black Parapet Wall	Locations: High Roof Scope of Impact: Removal	1610-0577 → 1610-0579 (10/7/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Pipe & elbow insulation (ACM) and Mirror Mastic (Assumed-ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. 9"x9" dark brown and solid brown floor tile w/ black mastic (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

D. General Notes:

1. 9"x9" Beige w/ White Streaks, 9"x9" Red w/ White Streaks, 9"x9" Cream w/ Red Streaks Floor Tiles were not found in Girls Gym Foyer.
2. 9"x9" Tan and Light Brown Floor Tiles w/ Mastic were removed from Testing Room on 6/15/05.
3. North Attic – no suspect material or debris found in this attic. Clean label had been posted at the access hatch on 10/22/08.
4. No ceiling space or crawlspace was found in this building.
5. (1) Wood fire door and (1) metal fire door are located at West side of the building. No suspect material was observed.
6. This building is scheduled for demolition.

7. Power Vault Building (007CAE)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Fire Shield/TSI lagging (ACM)	Locations: Mechanical Room – Boiler # 1 (on side wall inside firebox/boiler plate) Scope of Impact: Removal	944460 → 944462 (7/30/92)
2. Roofing Debris (ACM)	Locations: Attic Scope of Impact: Removal	0511-0671 → 0511-0673 (11/7/04) by point count
3. Grey Roof Mastic (ACM)	Locations: Roof – Kick Sheet Seam, Penetration, Parapet Wall Seam Scope of Impact: Removal	1611-0415 → 1611-0417 (11/7/16)
4. Black Wiring Insulation (Assumed-ACM)	Locations: Attic Scope of Impact: Removal	N/A
5. 10" O.D Transite Pipe (Assumed-ACM)	Locations: Attic Scope of Impact: Removal	N/A

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Sand Plaster Ceiling	Locations: Mechanical Room/Boiler Room Scope of Impact: Removal	0506-1211 → 0506-1215 (6/24/05) 0508-0690 → 0508-0694 (8/11/05)
2. 12"x12" Fissured Ceiling Tile (nailed-on)	Locations: Mechanical Room/Boiler Room Scope of impact: Removal	0810-0379 --. 0810-0381 (10/8/88)
3. Drywall wall (no joint compound)	Locations: Mechanical /Boiler Room – Ceiling Air Vents Scope of Impact: Removal	0508-0695 → 0508-0697 (8/11/05)
4. Concrete Floor	Locations: Throughout Building Scope of Impact: Removal	Non-suspect.
5. Refractory Cement	Locations: Mechanical Room – Boiler # 1 Scope of impact: Removal	944440 → 944444 (7/30/92)
6. Fire Brick	Locations: Mechanical Room – Boiler # 1 Scope of impact: Removal	944450 → 944454 (7/30/92)
7. White Tank insulation	Locations: Mechanical Room/Boiler Room Scope of impact: Removal	1609-0638 → 1609-0640 (9/14/16)
8. White Pipe Fitting and Elbow Insulation	Locations: Mechanical Room/Boiler Room – Boiler #1 & 2 Scope of impact: Removal	1609-0641 → 1609-0643 (9/14/16)
9. Window putty	Locations: Exterior Scope of Impact: Removal	B94, B95, B96 (3/7/02)

10. Exterior Stucco	Locations: Exterior Walls Scope of Impact: Removal	B91, B92, B93 (3/7/02)
11. Black Rolled Roof (Cored)	Locations: Roof Scope of Impact: Removal	1611-0406 → 1611-0408 (11/7/16)
12. Black Parapet Wall (Cored)	Locations: Roof Scope of Impact: Removal	1611-0409 → 1611-0411 (11/7/16)
13. Black Kick Sheet (Cored)	Locations: Roof Scope of Impact: Removal	1611-0412 → 1611-0414 (11/7/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Fire Shield / TSI Lagging and Roofing Debris (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. Grey Roof Mastic (ACM) :

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

3. Black Wiring Insulation and 10" O.D Transite Pipe (Assumed-ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. (Non-ACM) 2'x4' Drywall Ceiling Tile was not observed in the Boys and Girls Restrooms.

2. ACM Refractory Cement and Fire shield and Non-ACM firebrick and mud were removed from Boiler # 2.

3. ACM roofing debris was observed in the attic. Access hatch located on West side of the Roof.

4. No ceiling space or crawlspace access was observed in this building.

5. This building is scheduled for demolition.

8. Hash House/Lunch Service Building (008DAF)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Stucco Wall (ACM)	Locations: Exterior Walls Scope of Impact: Removal	9908-0581 → 9908-0583 (8/26/99) 0911-0105 → 0911-0107 (11/5/99) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Drywall Ceiling w/ joint Compound	Locations: Food Service Area Scope of Impact: Removal	0707-0464 → 0707-0466 (7/25/07)
2. Wood Wall (no joint compound)	Locations: Food Service Area Scope of Impact: Removal	Non-suspect.
3. Brown Epoxy flooring	Locations: Food Service Area Scope of Impact: Removal	1611-0072 → 1611-0074 (10/31/16)
4. Wall Moisture Barrier Paper	Locations: Exterior (behind stucco wall) Scope of Impact: Removal	0911-0105 → 0911-0107 (11/05/99) - Paper
5. Cap Sheet	Locations: Roof (3rd Layer) Scope of Impact: Removal	9704-1459 → 9704-1461 (3/27/99)
6. Roofing Shingles (Cored)	Locations: Roof (1st & 2nd Layers) Scope of Impact: Removal	9704-1453 → 9704-1458 (3/27/99)
7. Black Roof Penetration Mastic (Patch)	Locations: Roof Scope of Impact: Removal	1611-0071 (10/31/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Exterior Stucco Wall (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. Orange/Red Flooring Material (ACM) and 9"x9" Tan Floor Tile w/ Mastic (ACM) were removed on April 2010.
2. 12"x12" straight hole ceiling tile was not found in the Food Serving Area.
3. No suspect material was observed in the attic space. Clean label was posted by FETU on 9/10/07.
4. This building is scheduled for demolition.

9. Mechanical Arts Building (009BAJ)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. 9"x9" Grey Floor Tile w/ Mastic (ACM)	Locations: Room 152 – Storage/Work Room Scope of Impact: Removal	1609-0602 → 1609-0604 (9/16/16)
2. 9"x9" Tan Floor Tile w/ Mastic (ACM)	Locations: Hallway - Patch by Women Faculty Restroom Scope of Impact: Removal	0301-3345 → 0301-3348 (1/21/03)
3. Black Mastic associated w/ 12"x12" Red Floor Tile (ACM)	Locations: Room 157 Scope of Impact: Removal	1702-1039 → 1702-1041 (2/21/17)
4. 9"x9" Red w/ White Streak Floor Tile w/ Mastic (ACM)	Locations: Room 157 Storage Room Scope of Impact: Removal	1702-1042 → 1702-1044 (2/21/17)
5. 9"x9" Light Grey/Green Floor Tile w/ Mastic (ACM)	Locations: Rooms 151, 152, 153, 154, 155, Kiln Room, and Supply Room Scope of Impact: Removal	0301-3353 → 0301-3357 (1/21/03)
6. 9"x9" Tan/Beige w/ Brown/Red Floor Tile w/ Mastic (ACM)	Locations: Hallway Scope of Impact: Removal	947600 → 947602 (3/5/93) 946365 → 946370 (11/20/92) 0301-3345 → 0301-3348 (1/21/03)
7. 12"x12" Smooth Ceiling Tile Mastic (ACCM)	Locations: Rooms 151, 152, 153, 155 Scope of Impact: Removal	0810-0367 (10/7/08), 0810-0441, 0810-0442 (10/10/08)
8. Pipe Insulation (ACM)	Locations: Rooms 156A (Pipe Riser/Chase inside corner wall), and 157-Electrical Room Scope of Impact: Removal	1407-0025 (7/03/14) 4018, 4019, 7054, 7055, 7056 (1/21/89)
9. Roof Kick Sheet (ACM)	Locations: Roof Scope of Impact: Removal	946308 → 946310 (11/17/92)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Sand Plaster Ceiling	Locations: Throughout Building except Restrooms Scope of Impact: Removal	942585 → 942591 (6/2/92)
2. Smooth Plaster Ceiling	Locations: Faculty Restrooms, Men & Women Restrooms	947597 → 947599 (3/5/93)
3. Drywall Ceiling w/ Joint Compound	Locations: Main Hallway (above Ceiling Tile) Scope of Impact: Removal	0810-0364 → 0810-0366 (10/7/08)

4. 12"x12" Fissured Ceiling Tile w/ Mastic	Locations: Main Hallway Scope of Impact: Removal	0810-0361 → 0810-0363 (10/7/08) 0810-0376 → 0810-0378 (10/7/08)
5. 12"x12" Random Ceiling tile w/ Dark Brown Mastic	Locations: Rooms 154, 156A/B, 157, IDF Room (Room 157-NE Room), and Main Hallway Ceiling Space (mastic only) Scope of Impact: Removal	0505-0730 → 0505-0732 (5/11/05) 0810-0376 → 0810-0378 (10/7/08) 0505-0721 → 0505-0723 (5/9/05) 1108-0168 → 1108-0170 (8/16/11)
6. Straight Ceiling Tile (nailed-on)	Locations: Storage Room Scope of Impact: Removal	K1, K2, K3, K4, K5, K6, K7 (3/24/88)
7. 12"x12" Smooth Ceiling Tile	Locations: Rooms 151, 152, 153, 155 Scope of Impact: Removal	N1, N2, N3, N4, N5, N6, N7 (3/24/88)
8. Concrete Ceiling Mastic (Patch)	Locations: Main Hallway Scope of Impact: Removal	1609-0606 (9/16/16)
9. Sand Plaster Wall	Locations: Throughout Building except Restrooms Scope of Impact: Removal	946382 → 946388 (11/25/92)
10. Smooth Plaster Wall	Locations: Faculty Restrooms, Men & Women Restrooms	946389 → 946391 (11/25/92)
11. Drywall Wall w/ Joint Compound	Locations: Rooms 156A – East Wall Scope of Impact: Removal	0810-0358 → 0810-0360 (10/7/08) G1, G2, G3 (3/24/88)
12. 9"x9" Green w/ white Floor tile w/ Mastic	Locations: Room 155 and Men Faculty Restroom Scope of Impact: Removal	921834 → 921839 (3/16/90)
13. 12"x12" Light Grey Floor Tile w/ Mastic	Locations: Room 156A/B Scope of Impact: Removal	0301-3364A/B → 0301-3366A/B (1/21/03)
14. 12"x12" White/Light Grey Floor Tile w/ Black Mastic & Filter	Locations: Copy Room/Store Room Scope of Impact: Removal	1609-0599 → 1609-0601 (9/16/16)
15. 4" Brown Cove Base w/ White Mastic	Locations: Room 151 Scope of Impact: Removal	0301-3352 (1/21/03) 1702-1044 → 1702-1047 (2/21/17)
16. Vibration Reducer	Locations: Hopper Room Scope of Impact: Removal	1609-0605 (9/16/16)
17. Window Putty	Locations: Exterior Scope of Impact: Removal	1609-0606 → 1609-0608 (9/16/16)
19. Debris	Locations: Room 157 – Inside Kiln Scope of Impact: Removal	946359 → 946361 (11/20/92)
20. Fire Brick	Locations: Room 157 – Inside Kiln Scope of Impact: Removal	946362 → 946364 (11/20/92)

21. Beige Stucco / Dash Coat (no moisture barrier paper)	Locations: Exterior Walls Scope of Impact: Removal	1609-0610 → 1609-0614, 1609-0625 (9/16/16) 946409 → 946411 (12/1/92)
22. Skim coat on Concrete	Locations: Exterior – West Wall Scope of Impact: Removal	1609-0615 → 1609-0621 (9/16/16)
23. Leveling Compound	Locations: Exterior Arcade – South Entrance Scope of Impact: Removal	1609-0622 → 1609-0624 (9/16/16)
24. Grey Foam Roof (Cored)	Locations: Roof Scope of Impact: Removal	1610-0273 → 1610-0275 (9/22/16)
25. Grey Rolled Roof (Cored)	Locations: South Arcade Scope of Impact: Removal	1611-0379 → 1611-0381 (11/10/16)
26. White Roof Sealant	Locations: South Arcade Scope of Impact: Removal	1611-0382 (11/10/16)
27. White Door Insulation	Locations: Hopper Room - West Door Scope of Impact: Removal	1702-1048 (2/21/17)

C. Recommendations for handling ACM *and/or* ACCM:

1. 9"x9" Grey Floor Tile w/ Mastic, 9"x9" Tan Floor Tile w/ Mastic, 9"x9" Red w/ White Streaks Floor Tile w/ Mastic, 9"x9" Light Grey/Green floor Tile w/ Mastic, 9"x9" Tan/Beige w/ Brown/Red Floor Tile w/ Mastic, and 12"x12" Red Floor tile w/ Mastic (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

2. 12"x12" Smooth Ceiling Tile Mastic (ACCM), Pipe Insulation (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

3. Roof Kick Sheet (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. Room 158A/B: Items M & N from page 2 of 2 belong to Home Making Building (011DAP).

2. Wood fire door is located at North side of the building. No suspect material was observed.

3. Wood panels were observed at the skylight.

4. No roof penetration mastic was observed.

5. No cement board was observed in Room 156A.

6. No Transite pipe was observed in Room 157 Kiln Room Attic.

7. (ACCM) Roofing debris was removed from the Attic. Attic was observed to be abated previously with blue encapsulation throughout. No suspect material found in the attic space.

8. No ceiling space or crawlspace in this building.

9. This building is scheduled for demolition.

10. Music Building (010 DAM)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Sand Plaster Ceiling (ACM)	Locations: Music Room at N.E corner (above ceiling tile) Scope of Impact: Removal	946596, 946597 (12/14/92) 947596 (3/5/93)
2. Window Putty (ACM)	Locations: Exterior Windows Scope of Impact: Removal	B61, B62, B63 (3/7/02)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Barrier Paper (above Ceiling tile)	Locations: Office, Practice Rooms, Music Room & Storage Scope of Impact: Removal	946598 → 946600 (12/14/92)
2. 12"x12" Fissured Ceiling Tile (nailed-on)	Locations: Office, Practice Rooms, Music Room & Storage Scope of Impact: Removal	942580 → 942584 (6/2/92)
3. Sand Plaster Wall	Locations: Mechanical Room Scope of Impact: Removal	946593 → 946595 (12/14/92)
4. Wood Wall w/ Joint Compound	Locations: Office, Practice Rooms, Music Room & Storage Scope of Impact: Removal	0707-0467 → 0707-0469 (7/25/07)
5. 12"x12" Dark Blue Floor tile w/ Yellow Mastic	Locations: Office, Practice Rooms, Music Room Scope of Impact: Removal	1609-0626, 1609-0628, 1609-0630 (9/14/16)
6. 12"x12" Light Blue Floor tile w/ Yellow Mastic	Locations: Office, Practice Rooms, Music Room Scope of Impact: Removal	1609-0627, 1609-0629, 1609-0631 (9/14/16)
7. Brown Floor Sheeting w/ Black Felt/Backing Material (Cored)	Locations: Music Room (2nd layer, on top of wood floor) Scope of Impact: Removal	1609-0635 → 1609-0637 (9/14/16)
8. Concrete Floor	Locations: Mechanical Room Scope of Impact: Removal	Non-suspect.
9. Exterior Stucco	Locations: Exterior Walls Scope of Impact: Removal	940264 → 940266 (3/24/92)
10. Wall Moisture Barrier Paper	Locations: Exterior (behind Stucco Wall) Scope of Impact: Removal	1609-0632 → 1609-0634 (9/14/16)
11. Foam Roof (Cored)	Locations: Roof Scope of Impact: Removal	1611-0095 → 1611-0097 (10/31/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Sand Plaster Ceiling and Window Putty (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. Non-ACM Red Battle ship Floor Sheeting was removed in Music Room, Practice Room # 2 and under the sink on 3/1/01.
2. No roof penetration mastic was observed.
3. No attic or ceiling in this building.
4. No suspect material was observed in the crawlspace.
5. This building is scheduled for demolition.

11. Home Making Building (011DAP)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Stucco Wall (ACCM)	Locations: Exterior Scope of Impact: Removal	1609-0201, 1609-0203, 1609-0205 (9/16/16) by point count
2. Tan/Dark Brown HVAC Duct Penetration Mastic (ACM)	Locations: Exterior Scope of Impact: Removal	1610-0270, 1610-0271 (10/3/16)
3. 12"x12" Cream/Beige w/ Brown Spots and Black Mastic (ACM)	Locations: Room 158 Scope of Impact: Removal	0805-1658 → 0805-1663 (5/9/08) 1407-0049 → 1407-0054 (7/10/14)
4. Duct Tape on HVAC Ductwork (ACCM)	Locations: Roof Scope of Impact: Removal	0507-1027 → 0507-1029 (7/26/05) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. 12"X12" Straight Ceiling Tile (nailed-on)	Locations: Rooms 158, 158A Scope of Impact: Removal	C1, C2, C3, C4, C5 (3/23/88) 940234 → 940238 (3/24/92)
2. Barrier Paper (above ceiling tile)	Locations: Rooms 158, 158A Scope of Impact: Removal	940239 → 940243 (3/24/92)
3. Smooth Plaster Wall	Locations: Room 158 Scope of Impact: Removal	942569 → 942573 (6/1/92) 1407-0074 → 1407-0076 (7/15/14)
4. Sand Plaster Wall	Locations: Room 158A Scope of Impact: Removal	942574 → 942576 (6/1/92)
5. Dark Gray/Red Carpet w/ Adhesive	Locations: Room 158 Scope of Impact: Removal	New 2009.
6. 4" Black Cove Base w/ Adhesive	Locations: Room 158 Scope of Impact: Removal	New 2009.
7. 12"x12" Light Grey Floor Tile/Yellow adhesive Leveling Compound /Black Mastic (Cored)	Locations: Room 158A Scope of Impact: Removal	1609-0195 → 1609-0197 (9/16/16)
8. 4" Brown Cove Base w/ Yellow Adhesive	Locations: Room 158A Scope of Impact: Removal	1609-0198 → 1609-0120 (9/16/16)

9. Wall Moisture Barrier Paper	Locations: Exterior – behind stucco wall Scope of Impact: Removal	1609-0202, 1609-0204, 1609-0206 (9/16/16)
10. Grey Rolled Roof (Cored)	Locations: High Roof – Overhang Scope of Impact: Removal	1610-0258 → 1610-0260 (10/3/16)
11. Grey Foam Roof (Cored)	Locations: High Roof Scope of Impact: Removal	1610-0261 → 1610-0263 (10/3/16)
12. White/Light Grey/Black HVAC Duct Seam Sealant	Locations: Roof above Room 158 Scope of Impact: Removal	1610-0264 → 1610-0266(10/3/16)
13. Grey Flashing Mastic	Locations: High Roof Scope of Impact: Removal	1610-0267 → 1610-0269 (10/3/16)
14. Black Roof Patch Mastic	Locations: Roof Scope of Impact: Removal	1610-0272 (10/3/16)
15. Window Molding/Putty	Locations: Exterior Windows Scope of Impact: Removal	940244 → 940246 (3/24/92)

C. Recommendations for handling ACM *and/or* ACCM:

1. Exterior Stucco Wall (ACCM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. 12"x12" Cream/Beige w/ Brown Spots and Black Mastic (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

3. HVAC Duct Tape (ACCM), and Tan/Dark Brown HVAC Duct Penetration Mastic (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. Non-ACM Dark Gray/Red carpet with adhesive was not observed in Room 158.
2. No attic, ceiling space, or crawlspace in this building.
3. This building is scheduled for demolition.

12. Storage Unit # 1 (012DON)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Black Wall Moisture Barrier Paper	Locations: Interior Walls Scope of Impact: Removal	0707-0461 → 0707-0463 (7/23/07)
2. Exterior Stucco/Texture Coat	Locations: Exterior Walls Scope of Impact: Removal	B100, B101, B102 (3/12/02) by point count
3. White Shingle Roof	Locations: Roof Scope of Impact: Removal	9706-1320 → 9706-1322 (6/25/97) 9797-0325 → 9797-0327 (7/11/97)

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. Roof mastic was removed on 3/15/01.
2. No attic, ceiling space, or crawlspace was observed in this building.
3. This building is scheduled for demolition.

13. Flammable Storage Unit #2 (013BON)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Stucco/Texture Coat	Locations: Exterior Walls (no moisture paper) Scope of Impact: Removal	B85, B86, B87 (3/7/02)
2. Concrete	Locations: Interior Ceiling, Walls, and Floor Scope of Impact: Removal	Non-suspect.

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. No suspect material found inside Fire door.
2. No suspect roofing materials observed.
3. No attic, ceiling space, or crawlspace was observed in this building.
4. This building is scheduled for demolition.

14. Flammable Storage Unit # 1 (014BON)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Stucco/Texture Coat	Locations: Exterior Walls (no moisture barrier paper) Scope of Impact: Removal	B88, B89, B90 (3/7/02)
2. Concrete	Locations: Interior Ceiling, Walls, and Floor Scope of Impact: Removal	Non-suspect.

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. No suspect material found inside Fire door.
2. No suspect roofing materials observed.
3. No attic, ceiling space, or crawlspace was observed in this building.
4. This building is scheduled for demolition.

15. Pump Vault Building (015DON)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Grey/Dark Brown Penetration Mastic under Foam Roof (ACM)	Locations: Roof Scope of Impact: Removal	1610-0257 (9/22/16)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Wood Ceiling (no joint compound)	Locations: Interior Ceiling Scope of Impact: Removal	Non-suspect.
2. Wood Wall (no joint compound)	Locations: Interior Walls Scope of Impact: Removal	Non-suspect.
3. Exterior Stucco/Texture Coat	Locations: Exterior Walls Scope of Impact: Removal	B82, B83, B84 (3/7/02) 96, 97, 98 (11/4/08) by point count
4. Wall Moisture Barrier Paper	Locations: Exterior – behind Stucco Wall Scope of Impact: Removal	1609-0235 → 1609-0237 (9/15/16)
5. Grey Foam Roof (Cored)	Locations: Roof Scope of Impact: Removal	1610-0254 → 1610-0256 (9/22/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Grey/dark brown roof penetration mastic (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. ACM Pipe covering was removed on 07/2003 per Form A. Fiberglass pipe insulation and (4) PVC elbows observed.

2. No attic, ceiling space, or crawlspace was observed in this building.

3. This building is scheduled for demolition.

16. Industrial Arts Building (016BAN)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Pipe Insulation (ACM)	Locations: Mezzanine, Room 160 (Print Shop), Electrical Room, and Faculty Restroom Scope of Impact: Removal	G1, G2, G3 (3/25/88)
2. Drywall Ceiling w/ Joint Compound (ACM)	Locations: Rooms 161, 162, 163, 164 (Conference Room) Scope of Impact: Removal	7A/B, 8A/B, 9A/B (2/25/02) 0807-0305B (7/7/08) associated with ceiling tile sample
3. Joint Compound associated w/ Drywall Wall (ACM)	Locations: Rooms 161, 162, 163, 164 Scope of Impact: Removal	0512-2203 → 0512-2205 (12/16/15)
4. Black Roof Mastic under Foam Parapet Wall (ACM)	Location: Main Roof – under Foam Roof Parapet Wall & Pitch Pocket Scope of Impact: Removal	1610-0583 → 1610-0585 (10/10/16) 1610-0589 → 1610-0591 (10/10/16) 0512-2209 → 0512-2211 (12/16/15)
5. Grey/Black Roof Mastic (ACM)	Locations: Main Roof – on Foam Roof and Raceway, and Low Roof Scope of Impact: Removal	1610-0593 → 1610-0595 (10/10/16) 1610-0602 → 1610-0604 (10/10/16)
6. Cement Pipe (Assumed-ACM)	Locations: Storage Room – Floor Space between Mezzanine level Scope of Impact: Removal	N/A

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Sand Plaster Ceiling	Locations: Mechanical Room, Janitor Closet, Electrical Room, and throughout Interior Ceilings Scope of Impact: Removal	1609-0507 → 1609-0509 (9/14/16) 0602-2633 → 0602-2635 (2/14/06) A1, A2, A3, A4, A5, A6, A7 (3/23/88)
2. 2'x2' Random Ceiling Tile	Locations: Rooms 162 Mezzanine, 164 Mezzanine Scope of Impact: Removal	0811-0151 → 0811-0153 (11/4/08)
3. 2'X3' Random Hole Ceiling Tile	Locations: Room 160 (Print Shop), 161, 162, 163, 164 Scope of Impact: Removal	6 (3/24/92) C1, C2, C3, C4, C5, C6, C7 (3/23/88)
4. 2'x4' Fissured Ceiling tile	Locations: Rooms 163 Storage Scope of Impact: Removal	0810 → 0352 → 0810-0354(10/7/08)
5. 12"x12" Random Ceiling Tile w/ Adhesive	Locations: room 164 – Storage (Patch) Scope of Impact: Removal	New 2007.

6. 12"x12" Straight Ceiling tile w/ mastic	Locations: Rooms 161, 162, 163, 164 Scope of Impact: Removal	0807-0304 → 0807-0309 (7/7/08) 1, 2, 3, 4, 5, 6 (2/25/02)
7. Sand Plaster Wall	Locations: Mechanical Room, Janitor Closet, Room 164, Restrooms Scope of Impact: Removal	1609-0504 → 1609-0506 (9/14/16) B1, B2, B3, B4, B5, B6, B7 (3/23/88)
8. Drywall Wall	Locations: Rooms 161, 162, 163, 164 Scope of Impact: Removal	0512-2200 → 0512-2202 (12/16/15)
9. Concrete wall	Locations: Perimeter Walls Scope of Impact: Removal	Non-suspect.
10. 12"x12" Straight Wall tile w/ Adhesive	Locations: Room 164 – Server Room at Exhaust Hood Scope of Impact: Removal	0807-0313 → 0807-0314 (7/7/08) 0511-1425 → 0511-1430 (11/10/05)
11. Concrete Floor	Locations: Print Shop Scope of Impact: Removal	Non-suspect.
12. 4" Purple Cove Base w/ Off-White Adhesive	Locations: Rooms 161, 164 Scope of Impact: Removal	1609-0484 → 1609-0486 (9/14/16)
13. 4" Black Cove Base w/ Adhesive	Locations: Room 164 Scope of Impact: Removal	New 2007
14. Grey HVAC Seam mastic	Locations: Rooms 161, 163, 164 Scope of Impact: Removal	1609-0487 → 1609-0489 (9/14/16)
15. 12"x12" Dark Purple Floor Tile w/ Yellow Mastic	Locations: Rooms 161, 163, 164 Scope of Impact: Removal	1609-0490, 1609-0492, 1609-0494, 1609-0496, 1609-0498, 1609-0500, 1609-0502 (9/14/16)
16. 12"x12" Light Purple Floor Tile w/ Yellow Mastic	Locations: Rooms 161, 163, 164 Scope of Impact: Removal	1609-0491, 1609-0493, 1609-0495, 1609-0497, 1609-0499, 1609-0501, 1609-0503 (9/14/16)
17. Non-Skid Flooring Sheeting (Strips)	Locations: Room 163 Scope of Impact: Removal	0811-0145 → 0811-0147 (11/4/08) 0807-0301 → 0807-0303 (7/7/08)
18. Yellow Carpet Mastic	Locations: Room 164 (Conference Room) Scope of Impact: Removal	0512-2206 → 0512-2208 (12/16/15)
19. Green Carpet w/ Adhesive	Locations: Room 163 – Back Office Scope of Impact: Removal	New 2007
20. Exterior Stucco/Dash Coat (no moisture barrier paper)	Locations: Exterior Walls Scope of Impact: Removal	0811-0154 → 0811-0156 (11/4/08) B1, B2, B3 (3/5/02)
21. Window Putty	Locations: Exterior Scope of Impact: Removal	1609-0480 → 1609-0483 (9/14/16) 0807-0310-0807-0312 (7/7/08)

22. Roof Capsheet	Locations: All Roofs Scope of Impact: Removal	9709-0856 → 9709-0858 (9/19/97)
23. Foam Roof (Cored)	Locations: Main Roof Scope of Impact: Removal	1610-0580 → 1610-0582 (10/10/16)
24. Foam Kick Sheet (Cored)	Locations: Main Roof Scope of Impact: Removal	1610-0586 → 1610-0588 (10/10/16)
25. Beige HVAC Vibration Reducer	Locations: Main Roof Scope of Impact: Removal	1610-0592 (10/10/16)
26. Beige HVAC Duct Seam Sealant	Locations: Main Roof Scope of Impact: Removal	1610-0596 → 1610-0598 (10/10/16)
27. Rolled Roof (Cored)	Locations: Low Roof Scope of Impact: Removal	1610-0599 → 1610-0601 (10/10/16)
28. Roof Tar	Locations: Arcade Scope of Impact: Removal	B4, B5, B6(2/25/02)

C. Recommendations for handling ACM *and/or* ACCM:

1. Pipe Insulation, Drywall Ceiling w/ Joint Compound, Drywall Wall Joint Compound (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. Cement Pipe (Assumed-ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

3. Black Roof Mastic under Foam Parapet Wall and Grey/Black Roof Mastic (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. Non-ACM 12"x12" Straight Ceiling Tile w/ Adhesive was not found in Rooms 162 and 163.

2. Non-ACM Brown Floor Sheeting was not removed.

3. ACM Cement board Fume Hood Wall in room 161 was removed on 4/7/11.
4. Wood fire door observed at West Electrical Room.
5. No attic, ceiling space, or crawlspace was observed in this building.
6. Wood fire door is located at West side of Electrical Room. No suspect material was observed.
7. This building is scheduled for demolition.

17. Green House (017SON)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Concrete	Locations: Interior Floor, Interior/Exterior Walls Scope of Impact: Removal	Non-suspect.
2. Glass	Locations: Interior Ceiling, Interior/Exterior Walls Scope of Impact: Removal	Non-suspect.
3. Wood (no joint compound)	Locations: Interior Ceiling, Interior/Exterior Walls Scope of Impact: Removal	Non-suspect.

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. No suspect moisture barrier paper observed.
2. No suspect roofing materials observed.
3. No attic, ceiling space, or crawlspace was observed in this building.
4. This building is scheduled for demolition.

18. Storage unit # 3 (018HOL) – Former M0139L – Removed from Site.

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

None

C. Recommendations for handling ACM *and/or* ACCM:

1. N/A

D. General Notes:

1. N/A

19. Sanitary Unit under Bleachers (019GAG)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Sand Plaster Wall (ACCM)	Locations: Middle Restroom, Girls Center Restroom, and Center Ticket Booth Scope of Impact: Removal	27, 28, 29 (2/25/02) by point count
2. Sand Plaster Ceiling (ACCM)	Locations: Middle Restroom, Girls Center Restroom, and Center Ticket Booth Scope of Impact: Removal	30, 31, 32 (2/25/02) by point count
3. Beige Dash Coat (ACM)	Locations: Exterior Ramps Scope of impact: Removal	1611-0047 → 1611-0049 (10/31/6)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Drywall Ceiling w/ Joint Compound	Locations: Restrooms (Entries), Ticket Booths (Entries) Scope of Impact: Removal	0810-0388 → 0810-0390 (10/8/08) 0511-1431 → 0511-1433 (11/10/05)
2. Drywall Wall w/ Joint Compound	Locations: Restrooms (Entries) Scope of Impact: Removal	0810-0391 → 0810-0393 (10/8/08)
3. Drywall Wall w/ Old Dark Brown Paper and Debris	Locations: Under Bleachers Ticket Booth Areas Scope of Impact: Removal	0511-1431 → 0511-1433 (11/10/05) 1610-0608 → 1610-0610 (10/13/16) by point count
4. Stucco Ceiling	Locations: Foyer Scope of Impact: Removal	0810-0385 → 0810-0387 (10/8/08)
5. Smooth Plaster Ceiling	Locations: Boys and Girls Restrooms, North Men Restroom, Under Bleacher Ticket Booth Areas Scope of Impact: Removal	A1, A2, A3 (3/23/88) 21, 22, 23 (2/25/02)
6. Smooth Plaster Wall	Locations: Boys and Girls Restrooms, North Men Restroom, Under Bleacher Ticket Booth Areas Scope of Impact: Removal	24, 25, 26, 33, 34 (2/25/02) 1611-0053 → 1611-0055 (10/31/6)
7. Exterior Stucco Wall	Locations: Exterior Walls Scope of Impact: Removal	105, 106, 107 (11/4/08) by point count 0009-0290 → 0009-0297 (9/22/00) 1611-0050 → 1611-0052 (10/31/16)
8. Black Wall Moisture Barrier Paper	Locations: Attic above Men/Women Restrooms (associated w/ Stucco) Scope of Impact: Removal	0810-0394 → 0810-0396 (10/8/08)

9. Stucco/Dash Coat Wall (no moisture paper)	Locations: Ticket Booths Hallway Scope of Impact: Removal	105, 106, 107 (11/4/08) 0009-0290 → 0009-0297 (9/22/00) 1611-0050 → 1611-0052 (10/31/16)
10. Roofing Debris	Locations: Attic above Men/Women Restrooms Scope of Impact: Removal	0810-0397 → 0810-0399 (10/8/08) by point count
11. Window Putty	Locations: Exterior Scope of Impact: Removal	70583, 70584, 70585 (6/21/01)
12. Flashing Cap Mastic	Locations: Exterior Walls Scope of Impact: Removal	70583 → 70591 (6/21/01)
13. Guardrail Chalking	Locations: Exterior (Center Mount) Scope of Impact: Removal	70592 → 70597 (6/21/01)
14. Black Rolled Roof (Cored)	Locations: Roof Scope of Impact: Removal	1611-0056 → 1611-0058 (10/31/6)
15. Grey Sealant	Locations: Roof @ Bleacher Metal Footings Scope of Impact: Removal	1611-0059 → 1611-0061 (10/31/6)

C. Recommendations for handling ACM *and/or* ACCM:

1. Sand Plaster Walls and Ceilings (ACCM) and Beige Dash Coat (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. Stucco material was re-sampled due to missing previous point count results.

2. ACM Pipe insulation and debris were removed from under the Bleacher on 6/16/03.

3. Non-ACM black wall moisture barrier paper and roofing debris were found in the attic space above Men & Women Restrooms. No other suspect material found in the attic space.

4. No ceiling space or crawlspace was observed in this building.

5. This building is scheduled for demolition.

20. Storage Unit # 4 (020DOP)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Rolled Roof w/ Dark Brown Mastic (Cored) (ACM)	Locations: Roof Scope of Impact: Removal	1611-0098 → 1611-0100 (10/31/16)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Grey Roof Mastic (Patch)	Locations: Roof Scope of Impact: Removal	1611-0101 (10/31/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Rolled Roof w/ Dark Brown Mastic (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. No exterior stucco or moisture barrier paper was observed in this building.

2. No attic, ceiling space, or crawlspace was observed in this building.

3. This building is scheduled for demolition.

21. Flammable Storage Unit # 3 (021BOP)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Concrete	Locations: Interior Ceiling & Floor, Interior / Exterior Walls Scope of Impact: Removal	Non-suspect.

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. No suspect moisture barrier paper observed.
2. No suspect roofing materials observed.
3. No attic, ceiling space, or crawlspace was observed in this building.
4. This building is scheduled for demolition.

22. Metal Shop Building (023DAP)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Grey Sealant on Exhaust Fan (ACM)	Locations: Roof Scope of Impact: Removal	1610-0250 (10/4/16)
2. Black Kicksheet under Foam Roof (Cored) (ACM)	Locations: Roof Scope of Impact: Removal	1610-0251 → 1610-0253 (10/4/16)
3. Beige Window Putty (ACM)	Locations: Windows Scope of Impact: Removal	0512-2215 → 0512-2217 (12/16/05)
4. Pipe Elbow Insulation (ACM)	Locations: Room 4 (by the door) Scope of Impact: Removal	0606-2636 →06062638 (2/14/06)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Drywall Ceiling w/ Joint Compound	Locations: Storage Room, Electrical Room, and All Restrooms Scope of Impact: Removal	1610-0509 → 1610-0513 (9/27/16)
2. 12"x12" Random Ceiling Tile (nailed-on)	Locations: Room 4 Scope of Impact: Removal	940171 → 940175 (3/19/92)
3. Ceiling Moisture Barrier Paper	Locations: Room 4 (above ceiling tile) Scope of Impact: Removal	940181 → 940184 (3/19/92)
4. Wood Wall w/ Joint Compound	Locations: Room 4 Scope of Impact: Removal	0810-0355 → 0810-0357(10/7/88) 0807-0298 → 0807-0300 (7/7/08)
5. Drywall Wall w/ Joint Compound	Locations: Room 4-South Wall, Storage Room, and All Restrooms Scope of Impact: Removal	1610-0514 → 1610-0518 (9/27/16)
6. Brown 12"x12" Random Wall Tile (glue on exhaust hood)	Locations: Room 4 Scope of Impact: Removal	0512-2212 → 0512-2214 (12/16/05)
7. 12"x12" Light Purple Floor Tile w/ Yellow Adhesive	Locations: Room 4 Scope of Impact: Removal	1610-0500 → 1610-0502 (9/27/16)
8. 12"x12" Dark Purple Floor Tile w/ Yellow Adhesive	Locations: Room 4 and Electrical Room Scope of Impact: Removal	1610-0503 → 1610-0505 (9/27/16)

9. 4" Purple Cove Base w/ Off-White Adhesive	Locations: Room 4 Scope of Impact: Removal	1610-0506 → 1610-0508 (9/27/16)
10. Concrete Floor	Locations: Storage Room and Restrooms Scope of Impact: Removal	Non-suspect.
11. Stucco Walls	Locations: Exterior Walls Scope of Impact: Removal	B70, B71, B72 (3/7/02) by point count
12. Stucco Ceiling (no moisture paper)	Locations: Arcade Ceiling Scope of Impact: Removal	B73, B74, B75 (3/7/02) 0106-0454 → 0106-0456 (6/6/01) by point count
13. Black Wall Moisture Barrier Paper	Locations: Exterior Walls (behind Stucco) Scope of Impact: Removal	1610-0494 → 1610-0496 (9/27/16)
14. Grey Foam Roof (Cored)	Locations: Roof Scope of Impact: Removal	1610-0247 → 1610-0249 (10/4/16)
15. Grey HVAC Seam Mastic	Locations: Room 4 Scope of Impact: Removal	1610-0497 → 1610-0499 (9/27/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Grey Roof Sealant on Exhaust Fan, Black Roof Kicksheet (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

2. Beige Window Putty (ACM) and Pipe Insulation (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. No Roof penetration mastic observed under Foam Roof.
2. ACM Vibration Reducer in Room 4 was removed.
3. Metal fire door is located at South Electrical Room. No suspect material was observed.
4. ACM TSI debris was removed/cleaned up from the attic space on 5/15/06. No other suspect material was observed in the attic space.
5. No ceiling space or crawlspace in this building.
6. This building is scheduled for demolition.

23. Science & Classroom Building (025BES)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Exterior Stucco Ceiling (ACCM)	Locations: Portico (no moisture barrier paper) Scope of Impact: Exterior painting	B103, B104, B105 (3/7/02) by point count
2. Exterior Stucco/Texture Coat (ACCM)	Locations: Exterior Walls (no moisture barrier paper) Scope of Impact: Exterior painting	B109, B110, B111 (3/7/02) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Concrete Wall	Locations: Exterior (Southeast & Northeast Walls) Scope of Impact: Exterior painting	Non-suspect.

C. Recommendations for handling ACM *and/or* ACCM:

1. Exterior Stucco Ceiling (ACCM) and Exterior Stucco/Texture Coat (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. Exterior painted surfaces are in fair condition. No deteriorated painted surface was observed.

2. This building is scheduled for exterior painting only.

24. Standard Classroom Relocatable (A0497L)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. 12"x12" Pink Marbled Floor Tile (ACM)	Locations: B-6 Scope of Impact: Removal	1502-0221, 1502-0222, 1502-0223 (2/26/15)
2. Black Floor Felt Paper (ACM)	Locations: B-6 (under Floor Tile/Floor Sheeting) Scope of Impact: Removal	1503-0312-C (3/18/15) by point count
3. Capsheet (ACM)	Locations: Roof Scope of Impact: Removal	9704-1462 → 9704-1464 (3/27/97)
4. Brown/White Roofing Felt/Tar under Foam Roof (Cored) (ACM)	Locations: Roof Scope of Impact: Removal	1611-0392 → 1611-0394 (11/10/16)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Wood Wall (no Joint Compound)	Locations: B-6 Scope of Impact: Removal	Non-suspect.
2. 12"x12" Random Hole Ceiling Tile (nailed-on)	Locations: B-6 Scope of Impact: Removal	0411-0383 → 0411-0385 (11/6/04)
3. Black Battleship	Locations: B-6 Scope of Impact: Removal	940146 → 940148 (3/19/92)
4. Exterior Stucco	Locations: Exterior Walls Scope of Impact: Removal	B52, B53, B54 (3/7/02)
5. Window Putty	Locations: Exterior Scope of Impact: Removal	B55, B56, B57 (3/7/02)
6. Wall Moisture Barrier Paper	Locations: Exterior – behind Stucco Walls Scope of Impact: Removal	1609-0525 → 1609-0527 (9/13/16)
7. Deck-O-Text Material	Locations: Exterior Stairs Scope of Impact: Removal	1609-0528, 1609-0529 (9/13/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. 12"x12" Pink Marbled Floor Tile and Black Floor Felt Paper (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

2. Roof Cap Sheet and Brown/White Roofing Felt/Tar under Foam Roof (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. No suspect material or debris found in the crawlspace.

2. No attic or ceiling space found in this building.

3. This building is scheduled for demolition.

25. Standard Classroom Relocatable (A0548M)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. 12"x12" Brown Floor Tile w/ Black Mastic (ACM)	Locations: Room B-11 (2nd layer) Scope of Impact: Removal	1403-0390 → 1403-0392 (3/12/14) A0548M-01 → A0548M-03 (9/8/16)
2. 12"x12" Random Ceiling Tile (nailed-on) (ACM)	Locations: B-11 Scope of Impact: Removal	0209-0532 → 0209-0534 (9/2/02) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Wood Wall w/ Joint Compound	Locations: B-11 Scope of Impact: Removal	0807-0283 → 0807-0285 (6/26/08)
2. 12"x12" Purple/Yellow Floor Tile w/ Yellow Mastic	Locations: B-11 (1st Layer) Scope of Impact: Removal	A0548M-01 → A0548M-03 (9/8/16)
3. 4" Purple Cove Base w/ Adhesive	Locations: Room 11 Scope of Impact: Removal	New 2009.
4. Window Putty	Locations: Exterior Windows Scope of Impact: Removal	B67, B68, B69 (3/7/02)
5. Exterior Stucco	Locations: Exterior Walls Scope of Impact: Removal	102, 103, 104 (11/4/08) by point count 9912-0095 → 9912-0097 (12/1/99)
6. Black Wall Moisture Barrier Paper	Locations: Exterior – behind Stucco Walls Scope of Impact: Removal	A0548M-04 → A0548M-06 (9/8/16)
7. Black Roof Mastic	Locations: Roof Scope of Impact: Removal	1609-0291 (9/15/16)
8. Black Rolled Roof/Felt/Tar	Locations: Roof Scope of Impact: Removal	1609-0288 → 1609-0290 (9/15/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. 12"X12" Brown Floor Tile w/ Black Mastic (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

2. 12"x12" Random Ceiling Tile (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. Non-ACM 12"x12" Green Floor Tile w/ Mastic was removed from room B-11 (old Room B-18) on 1/8/07.

2. ACM Exterior Stucco Skirt was removed on 8/19/00.

3. No attic or ceiling space in this building. Ceiling Tile is nailed-on to hard lid/plywood ceiling.

4. No suspect materials was observed in the crawlspace.

5. This building is scheduled for demolition.

26. Standard Classroom Relocatable Building (A1245W)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Off-White Roof Sealant (ACM)	Locations: Metal Roof Scope of Impact: Removal	1609-0272 (9/15/16) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Drywall Wall (behind Fiberboard)	Locations: B-28 Scope of Impact: Removal	0506-1216 -> 0506-1218 (06/24/05)
2. 2'x4' Fissured Ceiling Tile	Locations: B-28 Scope of Impact: Removal	0506-1219 -> 0506-1221 (06/24/05)
3. 2'x4' Random Ceiling Tile	Locations: B-28 Scope of Impact: Removal	0506-1222 -> 0506-1224 (06/24/05) 0209-0544 → 0209-0546 (9/2/02)
4. 12"x12" Dark Green Floor Tile w/ Adhesive	Locations: B-28 (top layer) Scope of Impact: Removal	New 2009
5. 4" Brown Cove-base w/ Adhesive	Locations: B-28 Scope of Impact: Removal	New 2009
6. Black Roof Mastic	Locations: Metal Roof Scope of Impact: Removal	1609-0269 → 1609-0271 (9/15/16)
7. 12"x12" Brown Floor Tile w/ Yellow Mastic	Locations: B-28 (bottom layer) Scope of Impact: Removal	A1245W-01 → A1245W-03 (9/6/16) 0210-2811 → 0210-2813 (10/22/02)
8. Beige Fire Rated Caulking	Locations: B-28 (SE Wall) Scope of Impact: Removal	A1245W-04 (9/6/16)
9. Black Wall Moisture Barrier Paper	Locations: B-28 Scope of Impact: Removal	A1245W-05 → A1245W-07 (9/6/16)
10. Drywall Joint Compound (Patch)	Locations: B-28 (West Wall) Scope of Impact: Removal	A1245W-08 (9/6/16)
11. Gray/Green Deck Coating	Locations: Exterior Ramp (sharing ramp w/ A1246W) Scope of Impact: Removal	A1245W-09 → A1245W-11 (9/6/16)
12. Black Floor Moisture Barrier Paper	Locations: B-28 Scope of Impact: Removal	A1245W-12 → A1245W-14 (9/6/16)
13. Wood Siding	Locations: Exterior Scope of Impact: Removal	Non-suspect

C. Recommendations for handling ACM *and/or* ACCM:

1. Off-white roof sealant (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. No attic or ceiling space was found in this building.

2. No crawlspace access (approximately 10" high) was found in this building. No TSI or suspect debris was visually found in the crawlspace during the inspection.

3. This building is scheduled for demolition.

27. Standard Classroom Relocatable Building (A1246W)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Drywall Wall (behind Fiberboard / no joint compound)	Locations: Room B-27 Scope of Impact: Removal	0506-1225 -> 0506-1227 (06/24/05)
2. 2'x4' Fissured Ceiling Tile	Locations: Room B-27 Scope of Impact: Removal	0506-1228 -> 0506-1230 (06/24/05)
3. 2'x4' Random Ceiling Tile	Locations: Room B-27 Scope of Impact: Removal	0506-1231 -> 0506-1233 (06/24/05)
4. 12"x12" Light Green Floor Tile w/ Adhesive	Locations: Room B-27 Scope of Impact: Removal	New 2006
5. 4" Light Green Cove-base w/ Adhesive	Locations: Room B-27 Scope of Impact: Removal	New 2006
6. Black Roof Mastic	Locations: Metal Roof Scope of Impact: Removal	1609-0273 → 1609-0275 (9/15/16)
7. Drywall Joint compound (patch)	Locations: Room B-27 (West Wall) Scope of Impact: Removal	A1246W-01 (9/6/16)
8. Black Wall Moisture Barrier Paper	Locations: Room B-27 Scope of Impact: Removal	A1246W-02 → A1246W-04 (9/6/16)
9. Wood Siding (no joint compound)	Locations: Exterior Scope of Impact: Removal	Non-suspect
10j. Beige Fire Rated Caulking	Locations: Room B-27 (West Wall) Scope of Impact: Removal	A1246W-05 (9/6/16)
11. Black Floor Moisture Barrier Paper	Locations: Room B-27 Scope of Impact: Removal	A1246W-06 → A1246W-08 (9/6/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. No attic or ceiling space was found in this building.
2. No crawlspace (approximately 12" high) access was found in this building. No TSI or suspect debris was visually found in the crawlspace during the inspection.
3. No floor mastic residue was found under new 12"x12" light green floor tile w/ adhesive.

28. Standard Classroom Relocatable Building (A1247W)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Off-White Roof Sealant (ACM)	Locations: Metal Roof Scope of Impact: Removal	1609-0276-A (9/15/16)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Drywall Wall (behind Fiberboard/no joint compound)	Locations: Room B-26 Scope of Impact: Removal	0506-1234 -> 0506-1236 (06/24/05)
2. 2'x4' Fissured Ceiling Tile	Locations: Room B-26 Scope of Impact: Removal	0506-1237-> 0506-1239 (06/24/05)
3. 2'x4' Random Ceiling Tile	Locations: Room B-26 Scope of Impact: Removal	0506-1240 -> 0506-1242 (06/24/05)
4. 12"x12" Light Green Floor Tile w/ Adhesive	Locations: Room B-26 Scope of Impact: Removal	New 2006
5. 4" Light Green Cove-base w/ Adhesive	Locations: Room B-26 Scope of Impact: Removal	New 2006
6. Black Wall Barrier Paper	Locations: Room B-26 Scope of Impact: Removal	A1247W-01 → A1247W-03 (9/6/16)
7. Beige Fire Rated Caulking	Locations: Room B-26 (West Wall) Scope of Impact: Removal	A1247W-04 (9/6/16)
8. Grey Deck Coating (Deck-o-text)	Locations: Exterior Ramp (sharing ramp with A1248W) Scope of Impact: Removal	A1247W-05 → A1247W-07 (9/6/16)
9. Black Floor Moisture Barrier Paper	Locations: Room B-26 Scope of Impact: Removal	A1247W-08 → A1247W-10 (9/6/16)
10. Black Roof Mastic	Locations: Metal Roof Scope of Impact: Removal	1609-0276-B → 1609-0278 (9/15/16)
11. Wood Siding (no joint compound)	Locations: Exterior Scope of Impact: Removal	Non-suspect

C. Recommendations for handling ACM *and/or* ACCM:

1. Off-white Roof Sealant (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. No attic or ceiling space was found in this building.

2. No crawlspace (approximately 10" high) access was found in this building. No TSI or suspect debris was visually found in the crawlspace during the inspection.

3. No floor mastic residue was found under new 12"x12" light green floor tile w/ adhesive.

4. This building is scheduled for demolition.

29. Standard Classroom Relocatable Building (A1248W)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Black/Dark Brown Roof Mastic (ACM)	Locations: Roof Scope of Impact: Removal	1609-0279 → 1609-0281 (9/15/16) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Wood Siding (no Joint compound)	Locations: Exterior Scope of Impact: Removal	Non-suspect.
2. Drywall Wall (behind Fiberboard / no joint compound)	Locations: Room B-25 Scope of Impact: Removal	0506-1243 -> 0506-1245 (06/24/05)
3. 2'x4' Fissured Ceiling Tile	Locations: Room B-25 Scope of Impact: Removal	0506-1246-> 0506-1248 (06/24/05)
4. 2'x4' Random Ceiling Tile	Locations: Room B-25 Scope of Impact: Removal	0506-1249 -> 0506-1251 (06/24/05)
5. 12"x12" Light Green Floor Tile w/ Adhesive	Locations: Room B-25 Scope of Impact: Removal	New 2006
6. 4" Light Green Cove-base w/ Adhesive	Locations: Room B-25 Scope of Impact: Removal	New 2006
7. Black Wall Moisture Barrier Paper	Locations: Room B-25 Scope of Impact: Removal	A1248W-01 → A1248W-03 (9/6/16)
8. Beige Fire Rated Caulking	Locations: Room B-25 (East Wall) Scope of Impact: Removal	A1248W-04 (9/6/16)
9. Black Floor Moisture Barrier Paper	Locations: Room B-25 Scope of Impact: Removal	A1248W-05 → A1248W-07 (9/6/16)
10. Grey Deck Coating (Deck-o-text)	Locations: Exterior Ramp (sharing ramp with A1247W) Scope of Impact: Removal	A1247W-05 → A1247W-07 (9/6/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Black/Dark Brown Roof Mastic (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. No attic or ceiling space was found in this building.

2. No crawlspace (approximately 10" high) access was found in this building. No TSI or suspect debris was visually found in the crawlspace during the inspection.

3. No floor mastic residue was found under new 12"x12" light green floor tile w/ adhesive.

4. This building is scheduled for demolition.

30. Storage Relocatable Building (M0607L)

B. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Black/Gray/Red Floor Tile/Floor Sheeting and Black Felt/Backing on Wood Subfloor (ACM) [see note D.1 below].	Locations: Parent Center (3rd, 4th, & 5th layers) Scope of Impact: Removal	1609-0213C/D/E/F → 1609-0215C/D/E/F (9/13/16)
2. Roofing Debris (ACCM)	Locations: Attic/Ceiling Space Scope of Impact: Removal	0810-0270 → 0810-0272 (10/6/08)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Wood Ceiling w/ Joint Compound	Locations: Parent Center Scope of Impact: Removal	0810-0264 → 0810-0266 (10/6/08)
2. Wood Wall w/ Joint Compound	Locations: Parent Center Scope of Impact: Removal	0411-0386 → 0411-0388 (11/6/04)
3. 12"x12" Beige Floor Tile w/ Yellow Adhesive on Wood Subfloor (cored)	Locations: Parent Center (1st & 2nd layer) Scope of Impact: Removal	1609-0213A/B → 1609-0215A/B (9/13/16)
4. 4" Brown Cove Base w/ Off-White Adhesive	Locations: Parent Center Scope of Impact: Removal	1609-0210 → 1609-0212 (9/13/16)
5. Black Roof Shingles/Felt/ Tar	Locations: Roof Scope of Impact: Removal	1609-0304 → 1609-0306 (9/15/16)
6. Wall Moisture Barrier Paper	Locations: Exterior – behind Stucco Walls Scope of Impact: Removal	1609-0207 → 1609-0209 (9/13/16)
7. Exterior Stucco w/ Texture Coat	Locations: Exterior Scope of Impact: Removal	B76, B77, B78 (3/7/02)
8. Window Putty	Locations: Exterior Scope of Impact: Removal	B79, B80, B81 (3/7/02)

C. Recommendations for handling ACM *and/or* ACCM:

1. Black/Gray/Red Floor Tile/Floor Sheeting and Black Felt Backing on Wood Subfloor (ACM):

a. The removal of this materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

2. Roofing Debris (ACCM):

a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. Flooring materials:
   a. 12"x12" Beige Floor Tile / Mastic (1st layer)
   b. Wood (2nd layer)
   c. Red/Brown Floor Tile / Mastic (3rd layer)
   d. Brown Floor Sheeting (4th layer)
   e. Wood (5th layer)

2. No access to ceiling space above hard lid ceiling to inspect for (ACCM) roofing debris.

3. No crawlspace (approximately 6"-10" high) access was found in this building. No TSI or suspect debris was visually found in the crawlspace during the inspection.

4. This building is scheduled for demolition.

31. Lunch Shelter (P0191K) – Former M0538K

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

a. Metal Roof	Locations: Roof Scope of Impact: Removal	Non-suspect.

C. Recommendations for handling ACM *and/or* ACCM:

a. None.

D. General Notes:

a. No suspect roof mastic was observed.

b. This building is scheduled for demolition.

32. 2/3 Unit Relocatable Building (X0217L)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Dash Coat (ACM)	Locations: Exterior Stairs Scope of Impact: Removal	1609-0241 → 1609-0244 (9/19/16) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. 12"x12" Random Ceiling Tile (nailed-on)	Locations: B-11, B-12 Scope of Impact: Removal	0411-0389 → 0411-0391 (11/6/04)
2. Wood Wall (no Joint Compound)	Locations: B-11, B-12 Scope of Impact: Removal	Non-suspect.
3. 12"x12" Light Green Floor Tile w/ Yellow Mastic	Locations: B-11, B-12 Scope of Impact: Removal	New
4. Exterior Stucco	Locations: Exterior Scope of Impact: Removal	B7, B8, B9 (3/5/02)
5. Wall Moisture Barrier Paper	Locations: Exterior – behind Stucco Walls Scope of Impact: Removal	1609-0238 → 1609-0240 (9/19/16)
6. Black/Gray Roof Shingles/Felt/Tar	Locations: Roof Scope of Impact: Demolition	1609-0292 → 1609-0294 (9/15/16)
7. Window Putty	Locations: Exterior Scope of Impact: Removal	B10, B11, B12 (3/5/02)
8. Roofing Debris	Locations: Attic Scope of Impact: Removal	0810-0279 → 0810-0281(10/6/08) by point count

C. Recommendations for handling ACM *and/or* ACCM:

1. Dash Coat (ACM):

   c. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. Red battle ship floor sheeting with mastic in B-11 and B-12 were removed on 10/12/05 per Form A. No mastic residue was observed under new 12"x12" light green floor tile.

2. No roof mastic was observed.

3. Attic space:

   a. Non-ACM roofing debris was observed throughout attic space.

   b. No other suspect material was observed.

   c. Label was posted at the attic entry by FETU dated on 11/19/08.

4. Crawlspace:

   a. No suspect material or debris observed;

   b. This building is scheduled for demolition.

33. 2/3 Unit Relocatable Building (X0243L)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Deck-O-Text/Dash Coat Material (ACM)	Locations Exterior Stairs Scope of Impact: Removal	1609-0225 → 1609-0228 (9/12/16) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

Wood Wall Skim Coat	Locations: B-9, B-10 Scope of Impact: Removal	1609-0229 → 1609-0231 (9/12/16)
12"x12" Random Ceiling Tile (nailed-on)	Locations: B-9, B-10 Scope of Impact: Removal	0411-0392 → 0411-0394 (11/6/04)
12"x12" Light Green Floor Tile w/ Yellow Adhesive (Cored)	Locations: B-9, B-10 Scope of Impact: Removal	1609-0216 → 1609-0218 (9/12/16)
Stucco Wall	Locations: Exterior Scope of Impact: Removal	1609-0219 → 1609-0221 (9/12/16)
Wall Moisture Barrier Paper	Locations: Exterior – behind stucco wall Scope of Impact: Removal	1609-0222 → 1609-0224 (9/12/16)
Window Putty	Locations: Exterior Scope of Impact: Removal	1609-0232 → 1609-0234 (9/12/16)
Black Roof Shingles/Felt/Tar	Locations: Roof Scope of Impact: Removal	1609-0295 → 1609-0297 (9/15/16)
Roofing Debris	Locations: Attic Scope of Impact: Removal	0810-0276 → 0810-0278(10/6/08)

C. Recommendations for handling ACM *and/or* ACCM:

1. Deck-O-Text / Dash Coat Material (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. No roof mastic was observed.
2. No suspect material was observed in the attic space. Label was posted at the attic entry by FETU on 11/5/08.
3. No suspect material was observed in the crawlspace.
4. This building is scheduled for demolition.

34. 2/3 Unit Relocatable Building (X0306L)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Brown/Red Floor Sheeting w/ Black Backing Material (ACM)	Locations: B-7, B-8 (2nd layer) Scope of Impact: Removal	1609-0175C/D → 1609-0177C/D (9/12/16)
2. Deck-O-Text/Dash Coat Material (ACCM)	Locations: Exterior Stairs Scope of Impact: Removal	1609-0178→ 1609-0181 (9/12/16) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Wood Ceiling (no joint compound)	Locations: B-7, B-8 Scope of Impact: Removal	Non-suspect.
2. Wood Wall (no joint compound)	Locations: B-7, B-8 Scope of Impact: Removal	Non-suspect.
3. 12"x12" Random Ceiling tile	Locations: B-7, B-8 Scope of Impact: Removal	0411-0395 → 0411-0397 (11/6/04)
4. 12"x12" Light Green Floor Tile w/ Adhesive (Cored)	Locations: B-7, B-8 (1ST layer) Scope of Impact: Removal	1609-0175A/B/C → 1609-0177A/B/C (9/12/16)
5. Black Roof Felt/Tar (under Foam Roof)	Locations: Roof Scope of Impact: Removal	1609-0301 → 1609-0303 (9/15/16)
6. Exterior Stucco	Locations: Exterior Walls Scope of Impact: Removal	B19, B20, B21 (3/6/02)
7. Black Wall Moisture Barrier Paper	Locations: Behind Stucco Walls (collected from Attic) Scope of Impact: Removal	0810-0273 → 0810-0275 (10/6/08)
8. Window Molding/Putty	Locations: Exterior Scope of Impact: Removal	B22, B23, B24 (3/6/02)
9. Barrier Paper Debris	Locations: Crawlspace Scope of Impact: Removal	0810-0343 → 0810-0345 (10/7/08) by point count
10. Leveling Compound	Locations: Crawlspace Scope of Impact: Removal	0810-0346 → 0810-0348 (10/7/08)

C. Recommendations for handling ACM *and/or* ACCM:

1. Brown/Red Floor Sheeting w/ associated Black Backing Material (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

2. Deck-O-Tex / Dash Coat Material (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. No roof penetration mastic was observed under foam roof.

2. No suspect material was observed in the attic space. Label was posted at attic entry by FETU dated 11/5/08.

3. No suspect material was observed in the crawlspace. Label was posted at the crawlspace entry by FETU. Date on label was faded.

4. This building is scheduled for demolition.

35. 2/3 Unit Relocatable Building (X0323L)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Dash Coat (ACM)	Locations: Exterior Stairs Scope of Impact: Removal	1609-0245 → 1609-0247 (9/19/16)
2. Dark Brown Floor Sheeting w/ Black Backing Material (ACM)	Locations: B-13, B-14 (2nd layer) Scope of Impact: Removal	1609-0252C/D → 1609-0254C/D (9/19/16)
3. Black Paper Flooring Debris (ACM)	Locations: Crawlspace Scope of Impact: Removal	0810-0687 → 0810-0689 (10/22/08)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. 12"x12" Random Ceiling Tile (nailed-on)	Locations: B-13, B-14 Scope of Impact: Removal	0411-0398 → 0411-0400 (11/6/04)
2. Wood Wall with Joint Compound	Locations: B-13, B-14 Scope of Impact: Removal	0411-0401 → 0411-0403 (11/6/04)
3. 12"x12" Light Green Floor Tile w/ Yellow Mastic (Cored)	Locations: B-13, B-14 (1st layer) Scope of Impact: Removal	1609-0252A/B → 1609-0254A/B (9/19/16)
4. Exterior Stucco	Locations: Exterior Walls Scope of Impact: Removal	B25, B26, B27 (3/6/02)
5. Wall Moisture Barrier Paper	Locations: Exterior – behind stucco wall Scope of Impact: Removal	1609-0249 → 1609-0251 (9/19/16)
6. Black Roof Felt/Tar (under Foam Roof)	Locations: Roof Scope of Impact: Removal	1609-0298 → 1609-0300 (9/15/16)
7. Window Putty/Molding	Locations: Exterior Scope of Impact: Removal	B28, B29, B30 (3/6/02)
8. Black Wall Barrier Paper	Locations: Attic Scope of Impact: Removal	08110-0267 → 0810-0269(10/6/08) by point count
9. Roof Shingle	Locations: Roof Scope of Impact: Removal	9704-1465 → 9704-1467 (3/27/97)
10. Roof Capsheet	Locations: Roof Scope of Impact: Removal	9704-1468 → 9704-1470 (3/27/97)

C. Recommendations for handling ACM *and/or* ACCM:

1. Dark Brown Floor Sheeting w/ associated Black Backing Material (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

2. Dash Coat (ACM) and Black Paper Flooring Debris (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. No roof mastic found under foam roof.

2. Attic space:

   a. Access hatch located in Room B-13 and Suspect ACM label was posted at the entry by FETU on 11/7/08.
   b. Non-ACM moisture barrier paper (by point count) was observed,
   c. No other suspect material or debris was observed.

3. Crawlspace:

   a. Crawlspace accesses / screens located on the building exterior;
   b. ACM floor felt paper / Moisture barrier paper was observed,
   c. "Danger – Asbestos" label were posted at the crawlspace entry.

4. This building is scheduled for demolition.

36. 2/3 Unit Re-locatable Building (X0909M) – (Room B-30 = Room 12 and Room B-31 = Room 13)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Roof Mastic (ACM)	Locations: Roof Scope of Impact: Removal	0107-1057 → 0107-1062 (7/16/01)
2. Beige/Green Window Putty (ACM)	Locations: Exterior Windows Scope of Impact: Removal	0502-2251 →0502-2253 (12/16/05)
3. Cement (Transom) Board (Assumed-ACM)	Locations: Rooms 30 and 31 Scope of Impact: Removal	N/A
4. Fume Hood (Assumed-ACM)	Locations: Rooms 30 and 31 Scope of Impact: Removal	N/A

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Drywall Ceiling w/ Joint Compound (above ceiling tile)	Locations: Rooms 30, 31, and Storage Room Scope of Impact: Removal	0810-0261 → 0810-0263(10/6/08)
2. 12"x12" Fissured Ceiling Tile w/ Mastic	Locations: Rooms 30, 31, and Storage Room Scope of Impact: Removal	0810-0400 → 0810-0402 (10/8/08)
3. Drywall Wall w/ Joint Compound (New)	Locations: Rooms 30, 31, and Store Room Scope of Impact: Removal	New (missing previous sample results from Plant Management Book)
4. 12"X12" Purple & Light Yellow Floor Tile w/ Adhesive (New)	Locations: Rooms 30 and 31 Scope of Impact: Removal	N/A
5. 4" Purple Cove-base w/ Adhesive (New)	Locations: Rooms 30 and 31 Scope of Impact: Removal	N/A
6. Grey Deck Coating (Deck-o-text)	Locations: Exterior Ramp Scope of Impact: Removal	X0909M-01 → X0909M-03 (9/7/16)
7. Black Moisture Barrier Paper	Locations: Exterior (behind stucco walls) Scope of Impact: Removal	X0909M-04 → X0909M-06 (9/7/16)
8. Stucco Wall	Locations: Exterior Walls Scope of Impact: Removal	0502-2258 → 0502-2250 (12/16/15) 99, 100, 101 (11/4/08) by point count 0512-2248 → 0512-2250 (12/16/05)
9. Gray HVAC Duct Seam Sealant	Locations: Roof Scope of Impact: Removal	1609-0282 → 1609-0284 (9/15/16)
10. Black/White Kick-sheet/Felt/Tar	Locations: Roof Scope of Impact: Removal	1609-0285 → 1609-0287 (9/15/16)

11. Roofing Material	Locations: Roof Scope of Impact: Removal	3 (4/5/00) – Missing from Plant Management Book
12. Rock Felt	Locations: Roof Scope of Impact: Removal	0107-1054 → 0107-1056 (7/16/01)

C. Recommendations for handling ACM *and/or* ACCM:

1. Roof Mastic, Roof Joint Mastic, Roof Field Mastic (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

2. Beige/Green Window Putty (ACM), Cement (Transom) Board (Assumed-ACM), and Fume Hood (Assumed-ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. No black mastic residue was observed under new 12"x12" Purple & Light Yellow Floor Tile with Adhesive.

2. Building has no attic. No access to ceiling void above ceiling. Roofing debris may be present in ceiling void.

3. No suspect material or debris was observed in the crawlspace.

4. This building is scheduled for demolition.

37. 2/3 Unit Re-locatable Building (X0960M)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Black Roof Mastic (ACM)	Locations: Roof Scope of Impact: Removal	0512-2263 → 0512-2265 (12/16/05)
2. Joint Compound associated with Wood Wall (ACM)	Locations: Rooms B-15, B-16, B-17 Scope of Impact: Removal	0807-0286 → 0807-0288 (6/26/08)
3. Burgundy-Brown Floor Sheeting w/ Mastic and Black Barrier Paper (ACM)	Locations: Rooms B-15, B-17 (2nd layer) Scope of Impact: Removal	0610-0253 → 0610-0255 (10/09/06)
4. Dash Coat (ACM)	Locations: Exterior Stairs Scope of Impact: Removal	1609-0182 → 1609-0187 (9/7/16) by point count
5. Ceiling Heater Cover (ACM)	Locations: Room B-17 Scope of Impact: Removal	1609-0188 (9/7/16)
6. 4" O.D Transite Pipe (Assumed-ACM)	Locations: Northwest Corner above Ceiling Scope of Impact: Removal	N/A

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. 12"x12" Straight Ceiling Tile (nailed-on)	Locations: Rooms B-15, B-17 Scope of Impact: Removal	C1, C2, C3, C4, C5 (3/23/88)
2. 12"x12" Random Ceiling Tile (nailed-on)	Locations: Room B-16 Scope of Impact: Removal	E1, E2, E3, E4, E5 (3/23/88)
3. Brown Ceiling Barrier Paper (above ceiling tile)	Locations: Rooms B-15, B-16, B-17 Scope of Impact: Removal	0512-2257 → 0512-2259 (12/16/05)
4. 12"x12" Beige Floor Tile w/ Yellow Adhesive	Locations: Rooms B-15 (1st layer) Scope of Impact: Removal	0512-2254 → 0512-2256 (12/16/05)
5. 12"x12' Tan Marbled Floor Tile w/ Adhesive	Locations: Room B-16 Scope of Impact: Removal	New 2007.
6. 12"x12" Purple & Yellow Floor Tile w/ Adhesive	Locations: Room B-17 (1st layer) Scope of Impact: Removal	New 2009.
7. 4" Black Cove-base w/ Adhesive	Locations: Room B-16 Scope of Impact: Removal	New 2007.
8. 4" Purple Cove-base w/ Adhesive	Locations: Room B-17 Scope of Impact: Removal	New 2009.

9. Stucco Wall	Locations: Exterior Scope of Impact: Removal	0807-0286 → 0807-0288 (6/26/08)
10. Wall Moisture Barrier Paper	Locations: Rooms Exterior – behind stucco wall Scope of Impact: Removal	1609-0192 → 1609-0194 (9/7/16)
11. Gray Roof Capsheet	Locations: Roof Scope of Impact: Removal	0512-2260 → 0512-2262 (12/16/05)
12. Window Putty	Locations: Exterior Scope of Impact: Removal	0807-0289 → 0807-0291 (6/26/08)
13. Roofing Debris	Locations: Rooms B-15, B-16, B-17 (above ceiling tile) Scope of Impact: Removal	1609-0189 → 1609-0191 (9/7/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Dash Coat, Joint Compound associated with Wood Wall, Ceiling Heater Cover (ACM) and 4" O.D Transite Pipe (Assumed-ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. Burgundy-Brown Floor Sheeting w/ Mastic and Black Barrier Paper (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

3. Black Roof Mastic (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. Room B-15: no cove base observed.
2. Room B-16: Brown 12"x12" floor tile and mastic was removed on 7/5/07. No mastic residue was observed.
3. No transom was observed.
4. White PVC Roofing Membrane was observed.
5. No attic was observed. Non-ACM roofing debris was observed in the ceiling void.
6. Crawlspace:
   a. Accesses located on North and South Exterior;
   b. General construction debris (wood, concrete, metal scrap, dirt, and trash) observed in the crawlspace;
   c. Poly wall observed between B-16 and B-17 and white encapsulation was observed under room B-16; and
   d. No TSI observed.
7. This building is scheduled for demolition.

38. 2/3 Unit Relocatable Building (X2096P)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Black Mastic Residue under New Floor Tile (ACM)	Locations: Rooms 19, 20, 21 (on wood sub-floor) Scope of Impact: Removal	X2096P-01 → X2096P-03 (9/9/16)
2. Window Putty (ACM)	Locations: Exterior Scope of Impact: Removal	B40, B41, B42 (3/6/02)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Tectum Ceiling	Locations: Rooms 19, 20, 21 Scope of Impact: Removal	Non-suspect.
2. Wood Wall w/ Joint Compound	Locations: Rooms 19, 20, 21 Scope of Impact: Removal	0807-0292 → 0807-0294 (6/26/08)
3. Drywall Wall w/ Joint Compound	Locations: Rooms 19 and 20 (Partition Walls) Scope of Impact: Removal	0512-2224 → 0512-2229(12/16/05)
4. 12"x12" Purple/ Yellow Floor Tile w/ Adhesive	Locations: Rooms 19, 20, 21 Scope of Impact: Removal	New 2009.
5. Purple Carpet w/ Adhesive	Locations: Room 19 (partial) Scope of Impact: Removal	New 2009.
6. 4" Purple Cove Base w/ Adhesive	Locations: Rooms 20, 21 Scope of Impact: Removal	New 2009.
7. 4" Beige Cove Base w/ Yellow Mastic	Locations: Room 19 Scope of Impact: Removal	X2096P-04 → X2096P-06 (9/9/16)
8. Black Wall Moisture Barrier Paper	Locations: Exterior Scope of Impact: Removal	X2096P-07 → X2096P-09 (9/9/16)
9. Exterior Stucco	Locations: Exterior Scope of Impact: Removal	B37, B38, B39 (3/6/02)
10. White/Grey Dash Coat	Locations: Exterior Stair Scope of Impact: Removal	X2096P-10 (9/9/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Black Mastic Residue under new floor tile (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

2. Window Putty (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. (ACM) Black Roof Mastic (non-ACM) and Roof Capsheet were removed on 10/19/07.

2. PVC Roof Membrane was observed. Sampling was not performed.

3. No attic or ceiling space was observed in this building.

4. Crawlspace:
   a. (ACM) Pipe Elbow Insulation was not observed.
   b. 2" O.D fiberglass pipe insulation was observed.
   c. Crawlspace access through Building X2382P.

5. This building is scheduled for demolition.

39. 2/3 Unit Relocatable Building (X2260P)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. Deck-O-Tex / Dash Coat Material (ACM)	Locations: Exterior Stairs Scope of Impact: Removal	1609-0510 → 1609-0513 (9/15/16) by point count
2. Window Putty (ACM)	Locations: Exterior Scope of Impact: Removal	1609-0520 → 1609-0522 (9/15/16) B115, B116, B117 (3/7/02)
3. Dark Brown Floor Sheeting w/ Black Felt Material (ACM)	Locations: B-2, B-3 (3rd layer), and Crawlspace (debris) Scope of Impact: Removal	1609-0523, 1609-0524 (9/15/16)
4. Drywall Wall w/ Tape and Mud (ACM)	Locations: Heater Closet and Crawlspace (debris) Scope of Impact: Removal	0504-1704 → 0504-1709 (4/21/05)
5. Rolled Roof (Cored) (ACM)	Locations: Roof Scope of Impact: Removal	1611-0062 → 1611-0064 (10/31/16) by point count

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Tectum Ceiling Tile	Locations: B-2, B-3 Scope of Impact: Removal	Non-suspect.
2. Drywall Wall w/ Tape and Mud	Locations: B-2, B-3 Scope of Impact: Removal	0506-1252 → 0506-1254 (06/24/05)
3. 12"x12" Green Floor tile w/ Yellow Adhesive	Locations: B-2, B-3 (top layer) Scope of Impact: Removal	1609-0514 → 1609-0516 (9/15/16)
4. 12"x12" Light Pink Floor Tile with Mastic	Locations: B-2, B-3 (2nd layer) Scope of Impact: Removal	0312-0221 → 0312-0223(12/3/03)
5. Exterior Stucco/Texture Coat	Locations: Exterior Walls Scope of Impact: Removal	B112, B113, B114 (3/7/02) by point count
6. Wall Moisture Barrier Paper	Locations: Exterior – behind stucco wall Scope of Impact: Removal	1609-0517 → 1609-0519 (9/15/16)
7. Black Roof Kick Sheet	Locations: Roof Scope of Impact: Removal	1611-0065 → 1611-0067 (10/31/16)
8. Grey Roof Mastic	Locations: Roof Scope of Impact: Removal	1611-0068 → 1611-0070 (10/31/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. Deck-O-Tex / Dash Coat Material, Window Putty, Drywall Wall w/ Tape and Mud (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. Dark Brown Floor Sheeting w/ Black Felt Material (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

3. Rolled Roof (ACM):

   a. The removal of this material shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8219 "Asbestos Abatement of Non-Friable Roofing Material".

D. General Notes:

1. ACM Heater Vibration Reducers in Rooms B-2 and B-3 were removed on 8/30/09.

2. Crawlspace/ Void space:

   a. Access door located inside Heater Closet;
   b. ACM drywall debris and black felt/paper debris were found throughout;
   c. No TSI was observed;
   d. Void space had limited access.

3. This building is scheduled for demolition.

40. 2/3 Unit Relocatable Building (X2382P) – (B-22 = Room 7; B-23 – Room 6; B-24 = Room 5)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. HVAC Vibration Reducer (ACM)	Locations: B-22, B-23, B-24 (Abandon Units) Scope of Impact: Removal	1609-0255 → 1609-0257 (9/7/16)
2. Dash Coat (ACM)	Locations: Exterior - Stairs Scope of Impact: Removal	1609-0258 → 1609-0259 (9/7/16) by point count
3. Stucco Wall (ACM)	Locations: Exterior Walls Scope of Impact: Removal	1609-0263 → 1609-0265 (9/7/16) by point count
4. 12"x12" Tan/Beige w/ Brown Floor Tile with Mastic (ACM)	Locations: B-23, B-24 (under new 12"x12" Purple/Yellow Floor Tile); B-22 (only approx. 6 SF remained exposed), and Crawlspace (debris) Scope of Impact: Removal	0112-0320 → 0112-0322 (12/6/01)
5. Flooring Debris (ACM)	Locations: Crawlspace Scope of Impact: Removal	0901-0009 → 0901-0011 (12/31/08) no note for crawlspace inspection

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Tectum Ceiling Tile	Locations: B-22, B-23, B-24 Scope of Impact: Removal	Non-suspect.
2. Wood Wall w/ Joint Compound	Locations: B-22, B-23, B-24 Scope of Impact: Removal	0807-0295 → 0807-0297(7/7/08)
3. 12"x12" Purple & Yellow Floor Tile with Yellow Adhesive	Locations: B-22, B-23, B-24 Scope of Impact: Removal	New 2009.
4. 4" Purple Cove Base w/ Adhesive	Locations: B-22, B-23, B-24 Scope of Impact: Removal	New 2009.
5. Wall Moisture Barrier Paper	Locations: Exterior – behind stucco wall Scope of Impact: Removal	1609-0260 → 1609-0262 (9/7/16)
6. White Window Putty	Locations: Exterior Scope of Impact: Removal	1609-0266→ 1609-0268 (9/7/16)
7. Hayes Heater	Locations: B-22, B-23, B-24 Scope of Impact: Removal	Non-suspect.

C. Recommendations for handling ACM *and/or* ACCM:

1. HVAC Vibration Reducer, Dash Coat, Stucco Wall, and Flooring Debris (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

2. 12"x12" Tan/Beige w/ Brown Floor Tile with Mastic (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8216 "Asbestos Abatement of Non-Friable Floor tile".

D. General Notes:

1. White PVC Roofing Membrane was observed.

2. Building has no attic or ceiling space.

3. Crawlspace:

   a. Crawlspace access locates in the HVAC closet floor;
   b. (ACM) Vibration Reducer was not observed; and
   c. (ACM) 12"x12" Tan/Beige Floor Tile debris was observed.

4. This building is scheduled for demolition.

41. Sanitary Relocatable Building (8714-RR)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. 2'x4' Drywall Ceiling Tile	Locations: Boys & Girls Restrooms and Faculty Restroom Scope of Impact: Removal	0810-0382 → 0810-0384 (10/8/08) 1611-0081 → 1611-0083 (10/31/16)
2. 2'x4' Pinhole Ceiling Tile	Locations: Boys Restroom Scope of Impact: Removal	0411-0443 → 0411-0445 (11/06/04)
3. 2'x4' Fissured Ceiling Tile	Locations: Boys and Girls Restrooms Scope of Impact: Removal	1611-0084 → 1611-0086 (10/31/16)
4. Vinyl Wall	Locations: Boys & Girls Restrooms and Faculty Restroom Scope of Impact: Removal	Non-suspect.
5. Drywall behind Vinyl Wall (no joint compound)	Locations: Boys & Girls Restrooms and Faculty Restroom Scope of Impact: Removal	0411-0446 → 0411-0448 (11/06/04)
6. White Vinyl Wall Seam Caulking	Locations: Boys Restroom – West Wall Scope of Impact: Removal	1611-0087 (10/31/16)
7. Light Gray Mosaic Floor Sheeting with Adhesive	Locations: Boys & Girls Restrooms and Faculty Restroom Scope of Impact: Removal	1502-0224 → 1502-0229 (2/26/15)
8. 12"x12" Beige Floor Tile w/ Yellow Mastic (Patch)	Locations: Boys Restroom Scope of Impact: Removal	1611-0088 (10/31/16)
9. Red Deck Coating	Locations: Exterior Ramp Scope of Impact: Removal	1611-0075 → 1611-0077 (10/31/16)
10. Exterior Wood Panel	Locations: Exterior Walls Scope of Impact: Removal	Non-suspect.
11. Brown Moisture Barrier Paper	Locations: Exterior Walls (behind Wood Panel) Scope of Impact: Removal	1611-0078 → 1611-0080 (10/31/16)
12. Black Roofing Material on Penetration	Locations: Roof Scope of Impact: Removal	1611-0089 → 1611-0091 (10/31/16)
13. Grey Roof Sealant	Locations: Roof Scope of Impact: Removal	1611-0092 → 1611-0094 (10/31/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. Building has no attic space. No suspect material or debris was observed in ceiling space above 2'x4' ceiling panels.
2. No suspect material or debris was observed in the crawlspace. Label was posted at the crawlspace entry. Date on label was faded.
3. This building is scheduled for demolition.

42. 2/3 Unit Relocatable Building (8714-40) – Manufactured by Pacesetter IND, Inc.

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Fiberboard Wall Tile	Locations: Rooms 40 and 41 Scope of Impact: Removal	N/A.
2. Drywall Wall behind Fiberboard	Locations: Rooms 40 and 41 Scope of Impact: Removal	0411-0419 → 0411-0421 (10/10/04)
3. 2'x4' Fissured Ceiling Tile	Locations: Rooms 40 and 41 Scope of Impact: Removal	0411-0416 → 0411-0418 (10/12/04)
4. 4" Dark Gray Cove Base w/ Adhesive	Locations: Rooms 40 and 41 Scope of Impact: Removal	0411-0422 → 0411-0424 (10/10/04)
5. 12"x12" Light Gray Floor Tile	Locations: Rooms 40 and 41 Scope of Impact: Removal	N/A.

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. This building is scheduled for demolition.

43. 2/3 Unit Relocatable Building (8714-42) – Manufactured by Pacesetter IND, Inc.

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. 2'x4' Fissured Ceiling Tile	Locations: Rooms 42 and 43 Scope of Impact: Removal	0411-0425 → 0411-0427 (10/12/04)
2. Drywall Wall behind Fiberboard	Locations: Rooms 42 and 43 Scope of Impact: Removal	0411-0428 → 0411-0430 (10/10/04)
3. 4" Dark Gray Cove Base w/ Adhesive	Locations: Rooms 42 and 43 Scope of Impact: Removal	0411-0431 → 0411-0433 (10/10/04)

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. This building is scheduled for demolition.

44. 2/3 Unit Relocatable Building (8714-44) – Manufactured by Pacesetter IND, Inc.

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

None

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. 2'x4' Fissured Ceiling Tile	Locations: Rooms 44 Scope of Impact: Removal	0411-0434 → 0411-0436 (10/12/04)
2. Drywall Wall behind Fiberboard	Locations: Rooms 44 Scope of Impact: Removal	0411-0437 → 0411-0439 (10/10/04)
3. 4" Dark Gray Cove Base w/ Adhesive	Locations: Rooms 44 Scope of Impact: Removal	0411-0440 → 0411-0442 (10/10/04)

C. Recommendations for handling ACM *and/or* ACCM:

1. None.

D. General Notes:

1. This building is scheduled for demolition.

45. Grounds (000000)

A. Asbestos-Containing Materials (ACM >1%) and Asbestos-Containing Construction Materials (ACCM >0.1%) anticipated to be disturbed during the project:

1. 3" O.D Brown/White Pipe Insulation (ACM)	Locations: North Tunnel – Northwest of Power Vault Building at Man Hole Scope of Impact: Demolition/Renovation	1611-0398 (11/10/16)
2. 3" O.D Air-O-Cell Pipe Insulation (ACM)	Locations: North Tunnel – Northwest of Power Vault Building at Man Hole Scope of Impact: Demolition/Renovation	1611-0399 (11/10/16)
3. 3" O.D Pipe Insulation (ACM)	Locations: North Tunnel – Northwest of Power Vault Building at Man Hole Scope of Impact: Demolition/Renovation	1611-0400 (11/10/16)
4. 4" O.D Pipe Insulation (ACM)	Locations: Tunnel at Southeast of Assembly Building at Man Hole Scope of Impact: Demolition/Renovation	1611-0402 (11/10/16)

B. Non-Asbestos-Containing Materials (Non-ACM) anticipated to be disturbed during the project:

1. Astro Turf (Cored)	Locations: Football Field Scope of Impact: Demolition/Renovation	1610-0605 → 1610-0607 (10/13/16)
2. 4"O.D Canvas Fiberglass Pipe Wrap	Locations: Tunnel at Northwest of Cafeteria Building Scope of Impact: Demolition/Renovation	1611-0401 (11/10/16)
3. Dash Coat	Locations: East and West Water Fountain - Center Tower Scope of Impact: Demolition/Renovation	1611-0403 → 1611-0405 (11/10/16)

C. Recommendations for handling ACM *and/or* ACCM:

1. 3" O.D Brown/White Pipe Insulation, 3" O.D Air-O-Cell Pipe Insulation, 3" & 4" O.D Pipe Insulation (ACM):

   a. The removal of these materials shall be performed by a District Pre-qualified Asbestos Abatement Contractor as part of the contract. All work shall be performed in accordance with LAUSD Specification Section 02 8213 "Asbestos Abatement and Asbestos Related Disturbance".

D. General Notes:

1. (ACM) Len's Cover Rope Gasket was not found at time of inspection.

2. Tunnel:

   a. Assembly Building Tunnel - (ACM) 4" O.D pipe insulation was observed in damaged condition, but no debris was found at time of inspection. Wood critical barrier was found at the building crawlspace entrance. No label was observed at the tunnel entrance.

   b. Cafeteria Building Tunnel – (ACM) 4" O.D and 10" O.D pipe insulations were observed in good condition. No other suspect material was observed. No label was observed at the tunnel entrance.

   c. Boys Gymnasium Building Tunnel – Green encapsulation and fiberglass pipe insulation were observed throughout the tunnel. No label was observed at the tunnel entrance.

   d. North Tunnel – (ACM) 3" O.D Air-O-Cell pipe insulation, (ACM) 3" O.D pipe insulation, and (ACM) 3" O.D brown/white pipe insulation and debris were observed throughout the tunnel. No label was observed at the tunnel entrance.

   e. Tunnel possibly continues toward the West but Citadel was not able to access it beyond 65 linear feet for inspection.

3. This area will be potentially scheduled for renovation or demolition.

V. General Recommendations and Notes

All suspect construction materials not identified above are presumed asbestos-containing. All attics and crawl spaces not specified herein as clear for normal access and ceiling spaces not inspected and identified as absent of contamination are to be considered asbestos-contaminated areas. If materials not identified in this report will be disturbed or if attics, crawl spaces or ceiling spaces not identified in this report as clear of contamination are to be accessed during construction, notify IOR or OAR. They will contact the Facilities Environmental Technical Unit for further direction prior to disturbance of these materials or access of the contaminated spaces.

All work that will result in disturbance of asbestos containing materials shall be performed in accordance with all applicable specifications, laws and regulations, including but not limited to the LAUSD Facilities Standard Specifications and Procedures, Division 02 8213, "Asbestos Abatement and Asbestos Related Disturbance", Division 02 8216, "Asbestos Abatement Non-Friable Floor Tile", Division 02 8219, "Asbestos Abatement of Non-Friable Roofing Material", 29 CFR 1926.1101, Title 8, CCR 1529, and AHERA.

The Contractor shall take care when demolishing materials which will open wall cavities, sealed ceiling areas, covered trenches, and in general, areas which were inaccessible during the limited asbestos inspection. If any additional known, presumed, or suspected asbestos-containing materials are discovered during the demolition/renovation, the Contractor shall immediately stop all work and then contact the FETU and the project Environmental Consultant to determine the proper course of action.

VI. Lead Related Construction and Impact to Coated Surfaces

A. The Buildings involved in this project were built between 1915 through 1988.

B. Renovation, repair or painting work performed on buildings constructed prior to 1978 require special handling and environmental monitoring when coated surfaces including, but not limited to, painted, varnished, and glazed surfaces are impacted. Coated surfaces applied prior to 1978 are assumed to be lead-based. All work shall be performed in compliance with Facilities Standard Specification, Section 02 8333, "Lead Abatement and Lead Related Construction Work." XRF testing methodology is not acceptable in determining negative for lead content for Cal/OSHA compliance purposes, except for notification requirements. XRF may be used in determining lead-based paint for compliance with the U.S.E.P.A. Renovator, Repair, and Painting Rule. Disturbance of coated surfaces by contractors will be monitored by qualified District staff or Environmental Consultant sufficient to ensure that proper training and work procedures, cleanup, and waste handling are employed.

C. Loose or flaky paint that will be disturbed during the work of this project or in close proximity of the work area shall be stabilized by removing the loose or flaky paint and leaving only paint in stable condition.

D. It should be noted that any coated surfaces and building materials not listed above are to be considered to be lead-based and asbestos-containing respectively. Should the project require the disturbance of these surfaces and building materials, the FETU shall be notified.

If any changes occur in the scope of work, notify the Consultant or the FETU immediately before further commencement of work.

This report may not be changed, modified or include additions without the express written permission from the FETU.

If you have any questions regarding this report, contact the FETU at (213) 745-1450.

Signatures below certify that the information contained herein has been proofread and is technically accurate.

_____

Loren I. Witkin, CAC # 12-4963

VII. Confidentiality and Limitations

The survey and bulk sampling was limited to representative locations of the building(s) that were explicitly defined by the Client to be surveyed. Limited intrusive (e.g., opening ceiling panels, lifting sections of carpeting, etc.) and no destructive sampling was conducted as part of the scope of services performed. Additional suspect materials and/or debris may be present in concealed or limited access spaces including, but not limited to, above-ceiling areas, within wall cavities, pipe chases, attics, and crawlspaces. Additional materials may be present below or behind equipment, beneath existing finishes and coverings, or below grade and will only be accessible during the course of partial or full renovation/demolition activities. Care should be exercised when accessing these areas. Any suspect environmentally-regulated materials (ERMs) encountered during the course of demolition/renovation activities that were not previously sampled, including ERMs not specifically addressed herein, should be *presumed* to be ACMs/ACCMs, LCMs, PCBs, universal wastes, ODSs, or other ERMs until sampled and proven otherwise.

This report has been prepared by Citadel Environmental Services, Inc. exclusively for our Client and their Authorized Representatives. The information contained herein pertains only to accessible materials identified at the referenced property at the time of the survey performed in accordance with a mutually agreed upon scope of work. The findings and recommendations presented are based upon observations of present conditions, and may not necessarily indicate future conditions. Citadel Environmental Services, Inc. implies no warranty to the accuracy of information provided them by outside agents and transmitted herein. The information contained herein may not be used, disclosed, or copied without written permission of the Client.

This survey report is not intended to be a stand-alone design document for the solicitation of bids. This survey report should only be used for developing the scope of work, bid/contract document, and as a reference document.

CITADEL
ENVIRONMENTAL SERVICES, INC.

ATTACHMENT A
PROJECT MANUAL

FOR

ASBESTOS REMOVAL FOR COMPREHENSIVE MODERNIZATION PROJECT

AT

JEFFERSON HIGH SCHOOL (8714)
1319 EAST 41ST STREET
LOS ANGELES, CALIFORNIA 90041

IN THE LOS ANGELES UNIFIED SCHOOL DISTRICT

PREPARED BY

CITADEL ENVIRONMENTAL SERVICES, INC.
1725 VICTORY BOULEVARD
GLENDALE, CALIFORNIA 91201

PREPARED FOR

LOS ANGELES UNIFIED SCHOOL DISTRICT
FACILITIES ENVIRONMENTAL TECHNICAL UNIT
1240 SOUTH NAOMI AVENUE
LOS ANGELES, CALIFORNIA 90021

APRIL 17, 2017

_____
DON MOLINA, CAC NO. 94-1379

Los Angeles Unified School District
Facilities Services Division

OFFICE OF THE SUPERINTENDENT

FACILITIES SERVICES DIVISION

May 10, 2017

CITADEL ENVIRONMENTAL SERVICES, INC.
ATTN: Loren Witkin/Jennie Tran
1725 Victory Boulevard
Glendale, CA 91201

RE: PHASE II REVIEW AND APPROVAL FOR ASBESTOS X and/or LEAD X

The Facilities Environmental Technical Unit (FETU) has reviewed and approved your Phase II document(s) for the project listed below.

School: JEFFERSON HIGH SCHOOL School Code # 8714

Project: COMPREHENSIVE MODERNIZATION PROJECT Colin No. 10366809

Date of Report: 04-17-2017 FETU Work Order No. 26460248

If you have any questions regarding this approval, please call the FETU at (213) 745-1450.

Sincerely,

Kevin J. Kelly, CAC
Senior, FETU
Facilities Environmental Technical Unit

c: LaMonte Douglas, Complex Project Manager
Mohammad Baig – Facilities Development Manager/Construction, Central Region
Kwun Yang, FETU Analyst
File

SCOPE OF WORK APRIL 17, 2017	**JEFFERSON HIGH SCHOOL (8714)**	ABATEMENT FOR COMPREHENSIVE MODERNIZATION PROJECT
ALL BUILDINGS THROUGHOUT CAMPUS		

1. ADMINISTRATION & ACADEMIC BUILDING (001BBJ)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 983 square feet of (ACM) 12"x12" green, white, and bright yellow floor tiles associated with (ACM) mastic on concrete substrate in room 228.

2. Approximately 195 square feet of (ACM) 9"x9" green floor tile with white streaks associated with (ACM) mastic on concrete substrate in Women Faculty Restroom.

3. Approximately 400 square feet of (ACM) black parapet wall from high roof (Library's roof) and the center roof (between buildings 1 and 4).

4. Approximately 100 square feet of (assumed-ACM) 9"x9" dark brown and tan streaks floor tile with associated mastic on concrete substrate in Storage Room (next to Room 134).

5. **Note: These materials will be removed only where required and marked by the General Contractor or District's Representative to accommodate the renovation work plan.**

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 31,300 square feet of (ACM) brown coat sand plaster ceiling throughout the building above ceiling tile**.**

2. Approximately 26,450 square feet of (ACM) brown coat sand plaster ceiling debris in the ceiling space above the 2nd floor classrooms.

3. Approximately 2,850 square feet of (ACM) acoustical plaster walls in the Library above the bookshelves.

4. Approximately 10 linear feet of (ACM) Air-O-Cell pipe insulation in wall cavity between room 231 and Hopper Room.

5. Approximately 20 (assumed-ACM) gaskets in the crawlspace.

6. **Note: These materials will be removed only where required and marked by the General Contractor or District's Representative to accommodate the renovation work plan.**

2. CAFETERIA BUILDING #1 (002CAJ)

A. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 688 square feet of (ACM) acoustical ceiling plaster in the Faculty Dining Room.

2. Approximately 12 linear feet of (ACM) 3" O.D. of pipe insulation in wall cavity behind the kitchen sink.

3. Approximately 2 (ACM) pipe insulation elbows in the underground water pump chamber.

4. Approximately 4,000 square feet of (ACM) stucco/dash coat from the exterior walls.

5. Approximately 20 (assumed-ACM) gaskets in the Hopper Room.

6. **Note: These materials will be removed only where required and marked by the General Contractor or District's Representative to accommodate the renovation work plan.**

3. ASSEMBLY BUILDING (003BBJ)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 180 square feet of (non-ACM) 12"x12" beige/light green floor tile and (non-ACM) yellow adhesive associated with (ACM) black mastic on concrete substrate in the Boy Dressing Room.

2. Approximately 180 square feet of (ACM) 9"x9" light brown/white floor tile associated with (ACM) black mastic on concrete substrate in the Girls Dressing Room.

3. Approximately 1,584 square feet of (assumed-ACM) water proofing membrane under Terrazzo flooring in the Auditorium Foyer.

4. Approximately 175 square feet of (assumed-ACM) water proofing membrane under ceramic floor tile in the Boy's and Girl's Restrooms located south of the Auditorium.

5. **Note: These materials will be removed only where required and marked by the General Contractor or District's Representative to accommodate the renovation work plan.**

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 7,581 square feet of (ACM) acoustical plaster ceiling above 12"x12" random ceiling tiles in the Auditorium and Lobby.

2. Approximately 3,800 square feet of (ACM) acoustical plaster walls behind (non-ACM) 12"x12" random wall tiles and (non-ACM) mastic in the Auditorium.

3. Approximately 5 linear feet of (ACM) pipe insulation in the Girl's Restroom.

4. **Note: These materials will be removed only where required and marked by the General Contractor or District's Representative to accommodate the renovation work plan.**

C. Remove and dispose of as construction debris asbestos-containing construction waste the following material:

1. Approximately 7,581 square feet of (non-ACM) 12"x12" random ceiling tiles associated with ACCM mastic in the Auditorium and Lobby.

2. **Note: This material will be removed only where required and marked by the General Contractor or District's Representative to accommodate the renovation work plan.**

4. BOYS GYMNASIUM BUILDING (005BAN)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 1,431 square feet of (non-ACM) green carpet and (ACM) carpet mastic associated with (ACM) black floor mastic residue on concrete substrate in South Weight Room.

2. Approximately 1,158 square feet of (non-ACM) 2'x2' green/black rubber floor tile and (non-ACM) yellow adhesive associated with (ACM) black mastic residue on concrete substrate in North Weight Room.

3. Approximately 177 square feet of (ACM) 9"x9" gray and black streaks floor tile associated with (ACM) mastic on concrete substrate in the Girls' Restroom Entrance at Gym Foyer and in the Evening School Office.

4. Approximately 655 square feet of (ACCM) 12"x12" brown and white streaks floor tile with associated (ACM) black mastic on concrete substrate in the Gym Lobby/Foyer.

5. Approximately 20 square feet of (ACM) 9"x9" tan/brown streaks floor tile associated with (ACM) black mastic on concrete substrate in the Boy's Restroom Entrance.

6. Approximately 3 square feet of (ACM) 9"x9" red floor tile associated with (ACM) black mastic (patch) on concrete substrate in North Coach Office.

7. Approximately 578 square feet of (non-ACM) 12"x12" gold and green pattern floor tile associated with (ACM) black mastic on concrete substrate in North Coach Office and Reception Room.

8. Approximately 415 square feet of (ACM) grey transite panels from the HVAC soffit above the Basketball Court.

9. Approximately one (1) linear feet of abandoned (ACM) 6" O.D. transite pipe from Boiler Room.

10. Approximately 100 square feet of (ACM) black roof mastic under the foam roof.

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 20 linear feet of damaged ACM 3" O.D. pipe insulation located southeast of the HVAC soffit above the Basketball Court.

2. ACM pipe insulation debris and cross-contaminated debris throughout approximately 2,500 square feet of the HVAC soffit above the Basketball Court. Access hatch to the HVAC soffit is located on the roof.

5. GIRLS GYMNASIUM BUILDING (006BAN)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 1,910 square feet of (ACM) 9"X9" dark brown/solid brown floor tile associated with (ACM(black mastic on concrete substrate in Coach Office, Cot Room, Reception Room, First Aid Room, and Health Education Classroom.

2. Approximately 100 linear feet of (assumed-ACM) mirror mastic in the Covered Walk area.

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 7 (ACM) pipe insulation elbows in the Girls Coaches Restroom, Locker Room, Hopper Room, and Boiler Room.

6. POWER VAULT BUILDING (007COE)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 25 square feet of (ACM) gray roof mastic from the roof penetrations and seams of the kick sheets and parapet walls.

2. Approximately 10 linear feet of (assumed-ACM) 10" O.D. transite pipe in the attic.

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 50 square feet of (ACM) fire shield/TSI lagging from the boiler #1 (on the sidewall, inside the firebox/boiler plate) of the Mechanical Room.

2. Approximately 3 to 10 square feet each of the three locations (25 square feet in total) of (ACM) roofing debris in the attic.

3. Approximately 5 linear feet of loosed/abandoned (assumed-ACM) black wiring insulation in the attic.

7. HASH HOUSE/LUNCH SERVICE BUILDING (008DAF)

A. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 920 square feet of (ACM) stucco from the exterior walls.

8. MECHANICAL ARTS BUILDING (009BAJ)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 312 square feet of (ACM) 9"x9" gray floor tile associated with (non-ACM) black mastic on concrete substrate in room 152 - Storage/Work room.

2. Approximately 10 square feet of (ACM) 9"x9" tan floor tile associated with (ACM) mastic on concrete substrate in the Hallway by Women's Faculty Restroom.

3. Approximately 1,644 square feet of (ACM) 9"x9" tan/beige and brown/red floor tile associated with (ACM) black mastic on concrete substrate in the Hallway.

4. Approximately 1,200 square feet of (non-ACM) 12"x12" red floor tile associated with (ACM) black mastic on concrete substrate in Room 157.

5. Approximately 120 square feet of (ACM) 9"x9" red with white streaks floor tile associated with (non-ACM) mastic on concrete substrate in Storage of Room 157.

6. Approximately 120 square feet of (ACM) 9"x9" light gray and green floor tile associated with (ACM) mastic on concrete substrate in rooms 151, 152, 153, 154, 155, Kiln room, and Supply room.

7. Approximately 200 square feet of (ACM) roof kick sheet on the Roof.

B. Remove and dispose of as friable and hazardous asbestos waste the following material:

1. Approximately 20 linear feet of (ACM) pipe insulation from pipe riser/pipe chase in corner wall cavities of Room 156A and in Electrical Room.

C. Remove and dispose of as construction debris asbestos-containing construction waste the following material:

1. Approximately 3,648 square feet of (non-ACM) 12"x12" smooth ceiling tile associated with (ACCM) mastic in rooms 151, 152, 153, and 155.

9. MUSIC BUILDING (010DAM)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 100 square feet of (ACM) window putty from the exterior windows

B. Remove and dispose of as friable and hazardous asbestos waste the following material:

1. Approximately 60 square feet of (ACM) sand plaster ceiling from the northeast corner of the Music room (above the ceiling tile).

10. HOME MAKING BUILDING (011DAP)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 1,392 square feet of (ACM) 12"x12" cream/beige with brown spots floor tile with associated black mastic on concrete substrate in room 158.

2. Approximately 15 square feet of (ACM) tan/dark brown HVAC duct penetration mastic on the roof.

B. Remove and dispose of as construction debris asbestos-containing construction waste the following materials:

1. Approximately 980 square feet of (ACCM) stucco on the exterior walls.

2. Approximately 40 square feet of (ACCM) HVAC duct tape on the roof.

11. PUMP VAULT BUILDING (015DON)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 3 square feet of (ACM) gray/dark brown roof penetration mastic underneath foam roof.

12. INDUSTRIAL ARTS BUILDING (016BAN)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 500 square feet of (ACM) gray/black roof mastic located at the pitch pockets, parapet walls, and raceways under approximately 20,000 square feet foam roofing material on the Main Roof and Low Roof.

2. Approximately 10 linear feet of (assumed ACM) cement "Transite" pipe in an enclosed metal jacket (in an inaccessible floor space between the Mezzanine levels) above the Storage room located at the southwest corner of the building.

B. Remove and dispose of as friable and hazardous asbestos waste the following material:

1. Approximately 80 linear feet of (ACM) pipe insulation and 20 (ACM) pipe insulation elbows in the Mezzanine, Print Shop (room 160), Electrical shop, and Faculty Restroom.

2. Approximately 750 square feet of (non-ACM) drywall ceiling associated with (ACM) joint compound in rooms 161 thru 164 (Conference Room).

3. Approximately 1,000 square feet of (non-ACM) drywall walls associated with (ACM) joint compound in rooms 161 thru 164 (Conference Room).

13. SANITARY BUILDING UNDER BLEACHERS (019GAG)

A. Remove and dispose of as friable and hazardous asbestos waste the following material:

1. Approximately 400 linear feet of (ACM) beige dash coat from the North and South exterior ramps.

B. Remove and dispose of as construction debris asbestos-containing construction waste the following materials:

1. Approximately 1,100 square feet of (ACCM) sand plaster wall in the Middle Women's Restroom, Girls Center Restroom, and Center Ticket Booth.

2. Approximately 350 square feet of (ACCM) sand plaster ceiling in the Middle Women's Restroom, Girls Center Restroom, and Center Ticket Booth.

14. STORAGE UNIT 4 (020DOP)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 360 square feet of (ACM) rolled roofing with dark brown mastic.

15. METAL SHOP BUILDING (023DAP)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 3 square feet of (ACM) grey sealant on the roof exhaust fan.

2. Approximately 15 square feet of (ACM) black kick sheet under the foam roof.

3. Approximately 28 square feet of (ACM) beige window putty from the exterior windows.

B. Remove and dispose of as friable and hazardous asbestos waste the following material:

1. Approximately 2 (ACM) pipe insulation elbows located by the door in Room 4.

16. SCIENCE AND CLASSROOM BUILDING (025BES)

A. Minor disturbance of the following asbestos-containing construction materials during the exterior painting:

1. Asbestos-containing construction material (ACCM) stucco ceiling from the Portico.

2. Asbestos-containing construction material (ACCM) stucco wall/texture coat from the exterior walls.

3. All minor disturbance of less than 3 square feet per impact area and less than 100 square feet per project during the exterior painting shall be performed by workers who have received a minimum of sixteen (16) hours AHERA Operation and Maintenance training required by Title 8 CCR Cal/OSHA under Class III Work and in accordance with the attached specifications "Section 02 8213 – Asbestos Abatement and Asbestos Related Disturbance" as prepared by the Los Angeles Unified School District.

17. STANDARD CLASSROOM RELOCATABLE (A0497L)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 960 square feet of (non-ACM) 12"x12" pin marbled floor tile associated with (ACM) mastic (1st layer), (non-ACM) black floor sheeting (2nd layer), and (ACM) black floor felt paper (3rd layer) on wood substrate in room B-6.

2. Approximately 906 square feet of (ACM) Capsheet/roof felt/Tar under foam roof.

18. STANDARD CLASSROOM RELOCATABLE (A0548M)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 902 square feet of (non-ACM) 12"x12" purple/yellow floor tile associated with (non-ACM) yellow adhesive (1st layer) and (non-ACM) 12"x12" brown floor tile associated with (ACM) black mastic (2nd layer) on wood substrate in room B-11.

B. Remove and dispose of as friable and hazardous asbestos waste the following material:

1. Approximately 902 square feet of (ACM) 12"x12" random hole ceiling tile nailed on to wood rafter in Room B-11.

19. STANDARD CLASSROOM RELOCATABLE (A1245W)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 3 square feet of (ACM) off-white roof sealant on metal roof.

20. STANDARD CLASSROOM RELOCATABLE (A1247W)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 3 square feet of (ACM) off-white roof sealant on metal roof.

21. STANDARD CLASSROOM RELOCATABLE (A1248W)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 18 square feet of (ACM) black/dark brown roof mastic.

22. STORAGE RELOCATABLE (M0607L)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 384 square feet of (non-ACM) 12"x12" beige floor tile associated with (non-ACM) yellow adhesive (1st layer) on wood subfloor (2nd layer), (ACM) red/brown floor tile associated with (ACM) mastic (3rd layer), (non-ACM) brown floor sheeting (4th layer), and (ACM) black felt/backing material (5th layer) on wood substrate in Parent Center.

B. Remove and dispose of as construction debris asbestos-containing construction waste the following material:

1. Approximately 394 square feet of (ACCM) roofing debris distributed throughout the ceiling space above wood ceiling.

23. 2/3 UNIT RELOCATABLE BUILDING (X0217L)

A. Remove and dispose of as friable and hazardous asbestos waste the following material:

1. Approximately 280 square feet of (ACM) dash coat on pre-cast concrete steps/stairs by room B-11 (Southeast and Southwest stairs) and room B-12 (Southeast and Southwest stairs).

24. 2/3 UNIT RELOCATABLE BUILDING (X0243L)

A. Remove and dispose of as friable and hazardous asbestos waste the following material:

1. Approximately 280 square feet of (ACM) dash coat on pre-cast concrete steps/stairs by room B-9 (Southeast and Southwest stairs) and room B-10 (Southeast and Southwest stairs).

25. 2/3 UNIT RELOCATABLE BUILDING (X0306L)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 1,844 square feet of (non-ACM) 12"x12" light green floor tile associated with (non-ACM) yellow adhesive (1st layer) and (non-ACM) brown/red floor sheeting associated with (ACM) black felt/backing material (2nd layer) on wood substrate in rooms B-7 and B-8.

B. Remove and dispose of as construction debris asbestos-containing construction waste the following material:

1. Approximately 280 square feet of (ACCM) dash coat on pre-cast concrete steps/stairs by room B-7 (Southeast and Southwest stairs) and room B-8 (Southeast and Southwest stairs).

26. 2/3 UNIT RELOCATABLE BUILDING (X0323L)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following material:

1. Approximately 1,844 square feet of (non-ACM) 12"x12" light green floor tile associated with (non-ACM) yellow adhesive (1st layer) and (non-ACM) floor sheeting associated with (ACM) black felt/backing material (2nd layer) on wood substrate in rooms B-13 and B-14.

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 280 square feet of (ACM) dash coat on pre-cast concrete steps/stairs by room B-13 (Northwest and Southwest stairs) and room B-14 (Northwest and Southwest stairs).

2. Approximately 1,844 square feet of (ACM) black paper flooring debris distributed throughout the crawlspace under rooms B-13 and B-14.

3. Decontaminate all horizontal and vertical surfaces of the crawlspace under room B-13 and B-14.

27. 2/3 UNIT RELOCATABLE BUILDING (X0909M)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 25 square feet of (ACM) grey roof mastic throughout the roof.

2. Approximately 32 square feet of (ACM) beige/green window putty from the exterior windows of Rooms 30 and 31.

3. Approximately 16 square feet of (assumed-ACM) Cement/Transom Board from Room 30 and 31.

4. Approximately 2 (assumed-ACM) fume hoods from Rooms 30 and 31.

28. 2/3 UNIT RELOCATABLE BUILDING (X0960M)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 15 square feet of (ACM) black roof mastic throughout the roof.

2. Approximately 1,716 square feet of (non-ACM) 12"x12" Beige and Purple floor tiles associated with (non-ACM) yellow adhesive (1st layer) and (non-ACM) burgundy/brown floor sheeting with associated (ACM)black mastic and (ACM) barrier paper (2nd layer) on wood substrate in Rooms B-15 and B-17.

3. Approximately 4 linear feet of (assumed-ACM) 4" O.D. Transite pipe above ceiling at Northwest corner.

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 60 square feet of (ACM) joint compound associated with wood walls in Rooms B-15, B-16, and B-17.

2. Approximately 420 square feet of (ACM) dash coat on pre-cast concrete stairs by Rooms B-15 (Northeast and Southeast stairs), B-16 (Northeast and Southeast stairs), and B-17 (Northeast and Southeast stairs).

3. Approximately 12 square feet of (ACM) ceiling heater cover in Room B-17.

29. 2/3 UNIT RELOCATABLE BUILDING (X2096P)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 2,745 square feet of (non-ACM) 12"x12" purple and yellow floor tile associated with (non-ACM) yellow adhesive and (ACM) black mastic residue on wood substrate in Rooms 19, 20, and 21.

2. Approximately 40 square feet of (ACM) window putty on the exterior windows.

30. 2/3 UNIT RELOCATABLE BUILDING (X2260P)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 32 square feet of (ACM) window putty on the exterior windows.

2. Approximately 2,204 square feet of (non-ACM) 12"x12" green floor tiles with (non-ACM) yellow adhesive (1st layer), (non-ACM) 12"x12" light pink floor tiles with (non-ACM) mastic (2nd layer), and (non-ACM) dark brown floor sheeting associated with (ACM) black felt paper (3rd layer) on wood substrate in Rooms B-2 and B-3.

3. Approximately 3,061 square feet of (ACM) rolled roofing material throughout

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 280 square feet of (ACM) Dex-O-Tex/dash coat on pre-cast concrete stairs by Rooms B-2 (Northeast and Southeast) and B-3 (Northeast and Southeast).

2. Approximately 250 square feet of (non-ACM) drywall wall associated with (ACM) tape and mud in Heater Closet.

3. Approximately 3,061 square feet of (ACM) drywall w/ tape and mud debris and (ACM) floor tile black felt paper debris distributed throughout the crawlspace under Rooms B-2 and B-3.

4. Decontaminate all horizontal and vertical surfaces of the crawlspace under rooms B-2 and B-3.

31. 2/3 UNIT RELOCATABLE BUILDING (X2382P)

A. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

1. Approximately 1,800 square feet of (non-ACM) 12"x12" purple and yellow floor tiles with (non-ACM) yellow adhesive (1st layer) and (non-ACM) 12"x12" tan, beige, and brown floor tiles associated with (ACM) black mastic (2nd layers) on wood substrate in Rooms B-23, B-24, and B-22 (only approximately 6 square feet remained exposed).

2. Approximately 2,688 square feet of (ACM) flooring debris distributed throughout the crawlspace under Rooms B-22, B-23, and B-24.

3. Decontaminate all horizontal and vertical surfaces of the crawlspace under Rooms B-22, B-23, and B-24.

B. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 9 square feet of (ACM) HVAC vibration reducer on the abandon units in Rooms B-22, B-23, and B-24.

2. Approximately 140 square feet of (ACM) dash coat on pre-cast concrete stairs by rooms B-22 (Southwest) and B-24 (Northwest).

3. Approximately 2,200 square feet of (ACM) stucco throughout exterior walls.

32. GROUNDS (000000)

A. Remove and dispose of as friable and hazardous asbestos waste the following materials:

1. Approximately 72 linear feet of damaged (ACM) 3" O.D. brown/white pipe insulation and associated debris from North Tunnel located Northwest of Power Vault Building.

2. Approximately 200 linear feet of damaged (ACM) 3" O.D. Air-O-Cell pipe insulation and associated debris from North Tunnel located Northwest of Power Vault Building.

3. Approximately 72 linear feet of damaged (ACM) 3" O.D. grey pipe insulation and associated debris from North Tunnel located Northwest of Power Vault Building.

4. Approximately 50 linear feet of damaged (ACM) 4" O.D. pipe insulation (no debris) from the Southeast Tunnel located Southeast of Assembly Building.

5. Approximately 165 linear feet of 4"-10" (ACM) pipe fitting insulation from the Tunnel of Cafeteria Building.

6. Decontaminate all vertical and horizontal surfaces of the (ACM) pipe insulation debris and cross-contaminated debris throughout approximately 480 cubic feet (3'x1.6'x100') North Tunnel which consists concrete walls and ceiling with metal sheeting attached to the ceiling, and approximately 1" of soil on the floor.

33. All work areas involved are shown in the attached drawings.

34. Assumed asbestos-containing materials including transom windows, transite pipes, gasket, terrazzo flooring and associated waterproofing membrane, ceramic floor tile and associated waterproofing membrane, fire doors, mirror mastic, chalkboard mastic, and roofing debris above inaccessible hard

lid ceilings which were not identified in the above buildings due to non-destructive sampling shall be removed and/or disturbed by a District Pre-qualified Asbestos Abatement Contractor unless they are sampled and proven to be non-ACM by lab analysis.

35. All abatement work and disposal involving asbestos-containing materials shall be performed in accordance with the attached specifications, Section 02 8213, "Asbestos Abatement and Asbestos-Related Disturbance", Section 02 8216, "Asbestos Abatement of Non-Friable Floor tile", and Section 02 8219, "Asbestos Abatement of Non-Friable Roofing Materials" prepared by the Los Angeles Unified School District.

36. All Pipe and duct insulation work shall be performed by a C-2 licensed contractor, in accordance with the attached specifications, Section 23 0700, "HVAC Insulation" as prepared by the Los Angeles Unified School District for the renovation buildings.

37. All batt insulation work shall be performed by a C-2 licensed contractor, in accordance with the attached specifications Section 07 2100, "Thermal Insulation" as prepared by the Los Angeles Unified School District for the renovation buildings.

38. All demolition work shall be performed by the District approved licensed contractor, in accordance with the attached specifications Section 02 4116, "Demolition" as prepared by the Los Angeles Unified School District for the demolition buildings.

39. PEELING AND LOOSE PAINT

A. Renovation, repair or painting work performed on buildings constructed prior to 1978 require special handling and environmental monitoring when coated surfaces including, but not limited to, painted, varnished, and glazed surfaces are impacted. Coated surfaces applied prior to 1978 are assumed to be lead-based. All work shall be performed in compliance with Specification, Section 02 8333, "Lead Abatement and Lead Related Construction Work." XRF testing methodology is not acceptable in determining negative for lead content for Cal/OSHA compliance purposes, except for notification requirements. XRF may be used in determining lead-based paint for compliance with the U.S.E.P.A. Renovator, Repair, and Painting Rule. Disturbance of coated surfaces by contractors will be monitored by qualified District staff or Environmental Consultant sufficient to ensure that proper training and work procedures, cleanup, and waste handling are employed".

B. Where loose or flaking paint will be disturbed by the work required herein, stabilize all such loose and peeling coatings.

C. Paint waste shall not be commingled with asbestos waste.

D. All work involving lead-based and/or lead-containing materials shall be performed in accordance with the attached specifications Section 02 8333, "Lead Abatement and Lead-Related Construction Work" as prepared by the Los Angeles Unified School District.

SPECIAL CONDITIONS APRIL 17, 2017	**JEFFERSON HIGH SCHOOL (8583)**	ABATEMENT FOR COMPREHENSIVE MODERNIZATION PROJECT
ALL BUILDINGS THROUGHOUT CAMPUS		

I. GENERAL

A. The following special conditions shall take precedence over the standard specifications. The drawings included with these specifications show the floor plans of the work areas.

B. Abatement contractor shall be responsible for verifying all dimensions prior to bid. Any amounts listed on these specifications are only estimated and are not to be considered final measurements.

C. Abatement contractor shall provide a secured and separate storage for all materials, equipment, and waste.

D. Abatement contractor shall physically secure all entrances and opening to work areas until final clearance is received, as approved by the District representative.

E. In addition to the project specification submittal requirements, the Abatement contractor shall submit for review and approval an asbestos abatement work plan. The asbestos work plan shall detail the means and methods that will be used for controlling and containing fiber release during the removal/disturbance of asbestos containing material in accordance with the project specifications. The plan shall include, but not be limited to, a drawing that adequately depicts the location of asbestos control areas, change areas, emergency exit routes and exits, and any special features (e.g. critical barriers, pony walls, air filtration units, makeup air, air filtration unit exhaust, decontamination units, load out/bag out units, etc.).

F. The abatement contractor shall not proceed with the disturbance of ACM/ACCM until the asbestos work plan and written work schedule have been approved by a District representative in writing.

G. Any damage to duct work caused by the contractor shall be repaired and restored to operational condition before start of insulation for the renovation buildings.

H. Contractor shall take precautions not to damage the ceiling during abatement for the. Any damage to ceilings shall be repaired or replaced by the contractor for the renovation buildings.

I. The time period for completion of the work shall be in agreement with LAUSD and District's representative from the start date.

J. Noise from the work process shall not interfere with the normal and scheduled day or evening school activities. Work schedule will be determined with the involvement of the school staff at the job start meeting.

K. At the commencement of the project, all Contract Documents, Project Manual and Specifications shall be on site and remain until the completion of the project.

L. All furniture and equipment in the work areas involved will be removed by others prior to start of abatement work.

II. SITE SPECIFIC CONDITIONS

A. Background air samples are required prior to perform asbestos abatement activities.

B. For asbestos flooring materials left underneath cabinets, shelves, and walls marked by the General Contractor or District Representative, the Abatement Contractor shall cut the asbestos flooring materials straight line along the perimeter edge.

C. After asbestos flooring mastic has been scraped off with razor blades, the Abatement Contractor shall final detail (scrub) concrete floor substrates manually with a non-metallic scrub using amended water.

D. Prior to removal of the ACM roofing materials, the Abatement Contractor shall pre-clean and protect all surfaces within the attic and ceiling spaces directly beneath roofing removal areas with one (1) layer of 6-mil polyethylene sheeting. This layer shall be removed after passed final visual inspection by District Representative.

E. Where applicable, the Abatement Contractor shall provide proper support system for the abatement workers during the installation of poly in the attic space and ceiling spaces to protect roofing debris fallout.

F. The abatement contractor shall restore the work areas and auxiliary areas utilized during the abatement to condition equal to or better than original. Any damage caused during the performance of the abatement work, including, but not limited to, damage cause by tape, adhesive, staples, nails, water, encapsulating material, or any other materials shall be repaired as required at no cost to the District.

G. All areas failing to pass air clearance monitoring shall be re-cleaned and retested until satisfactory levels are obtained in accordance with this specification. Contractor shall be responsible for all costs incurred (e.g., monitoring, analysis, etc.) resulting from failure to receive initial air clearance.

H. The Abatement Contractor shall provide the District all the following documents:

- Filter change logs for all air filtration units (where applicable), water filtration units, and respirators
- Forman's daily job reports
- Employee entry/exit logs for all containments
- Visitor entry/exit logs for all containments
- Manometer printout report for all applicable containments
- Air sampling results for personal monitoring of workers

- Air samples for abatement work areas, and air filtration units (where applicable)
- Copies of all hazardous and non-hazardous waste manifests
- All signed Daily Personnel Report Forms
- Signed Code of Conduct from each employee working on a project
- Signed Asbestos Abatement Project Personnel Logs

I. Abatement Contractor shall have ten (14) working days after the completion of the abatement of the last work area to submit the close-out documents that are required to prevent continuation of the contract time.

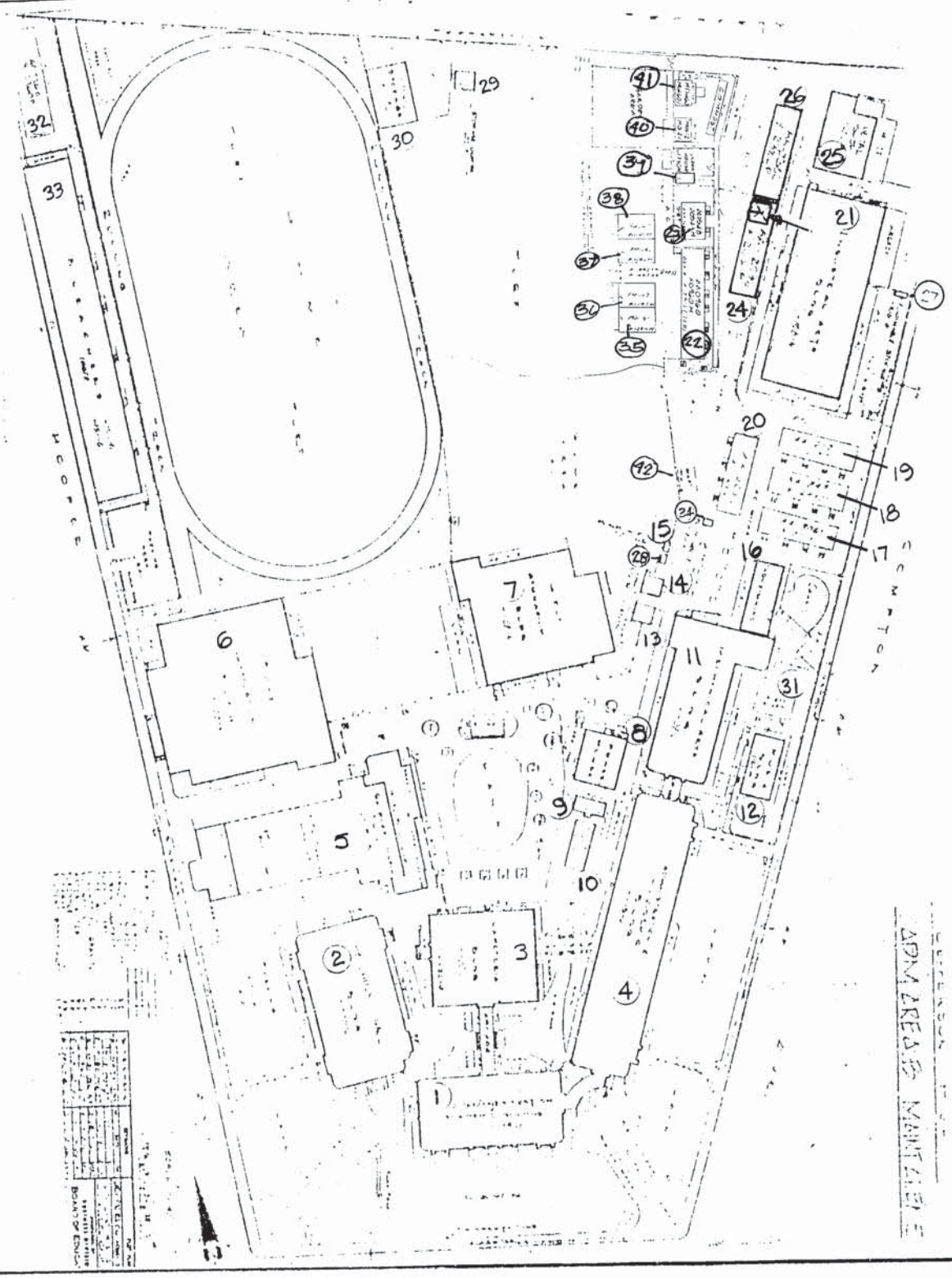
J. Failure to provide the documents as required will result in a corrective item value in an amount sufficient to cover the cost that would be incurred if a regulatory agency citation was issued for the absence of such documents or, in the absence of such a regulation, in an amount the District deems fair and reasonable for the efforts of pursuing the document(s) from the Contractor and obtaining the documentation from the other sources.

END OF SECTION

L: JEFFERSON, THOMAS, HIGH

DRESS: 3316 E. 41st. St.
LOS ANGELES CA 90011

ISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT



AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Date: 3/25/86 (REVISED)
Sheet 1 of 38 sheets

LOS ANGELES SCHOOL DISTRICT

LOCATION 8714

DIAGRAM OF BUILDING AREAS

APPLICATION NO. 22/

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING NO.	YEAR COMPLETED	YEAR RECONST./ MODERNIZED	O.S.A. APPLICATION NO.	AREA SQ. FT.
01	1935	----	A-00914	15636
02	1936	----	A-01646	15407
03	1935	1950	A-00912	10513
04	1935	----	A-00913	32508
05	1969	----	A-31376	55542
06	1954	----	A-11700	24097
07	1956	----	A-14060	14751
08	1915	1957	----	2304
09	----	----	----	461
10	1941	----	----	300
11	1937	1944	A-02221	10389
12	1951	----	A-08846	1856
13	----	----	----	360 (NC)
14	----	----	----	360 (NC)
15	----	----	----	60 (NC)
16	1960	----	A-19720	2263
17	1946	----	A-27761	1844
	----	----	A-27765	
18	1935	----	A-01032	1844
19	1935	----	A-01032	1844
20	1947	----	A-04857	1844
21	1958	1960	A-17005	19954
22	1950	----	A-07819	2574
23	1950 49	----	A-07657	902
24	1960	----	A-19846	2745
25	1963	----	A-22433	4264
26	1962	----	A-22462	2688
27	1961	----	A-20561	215 NC
28	----	----	----	60 NC
29	----	----	----	360 (NC)
30	1948	----	----	2301 (NC)
31	1948	----	A-06584	906
32	1961	----	A-21101	3061
33	1926	1954	A-12335	15470
34	----	----	----	83
35	1987	----	~~A-48538~~ A-48739	864
	----	----	~~A-48739~~	
36	1987	----	~~A-48538~~ A-48739	864
	----	----	~~A-48739~~	
37	1987	----	~~A-48538~~ A-48739	864
	----	----	~~A-48739~~	
38	1987	----	~~A-48538~~ A-48739	864
	----	----	~~A-48739~~	
39	----	----	----	81 (NC)
40	----	----	----	384 (NC)
41	----	----	----	384 (NC)
42	----	----	----	384 (NC)

SUB TOTAL AREA = 254455 SQ. FT.
LESS STORAGE BLDG = 3441 SQ. FT.
TOTAL AREA = 251014 SQ. FT.

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 2 OF 125 SHEETS

DIAGRAM OF BUILDING AREAS APPLICATION NO. 22/

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING NO.	YEAR COMPLETED	YEAR RECONST./ MODERNIZED	O.S.A. APPLICATION NO.	AREA SQ. FT.

NOTES:

7204 SQ. FT. OF STAIRS NOT INCLUDED IN TOTAL AREA.
228 SQ. FT. OF ELEVATORS NOT INCLUDED IN TOTAL AREA.
OPEN ARCADES AT 1/3 AREA = 6143 SQ. FT.

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8714

APPLICATION NO. 22/

DRAWING JESOIFI

BUILDING 1

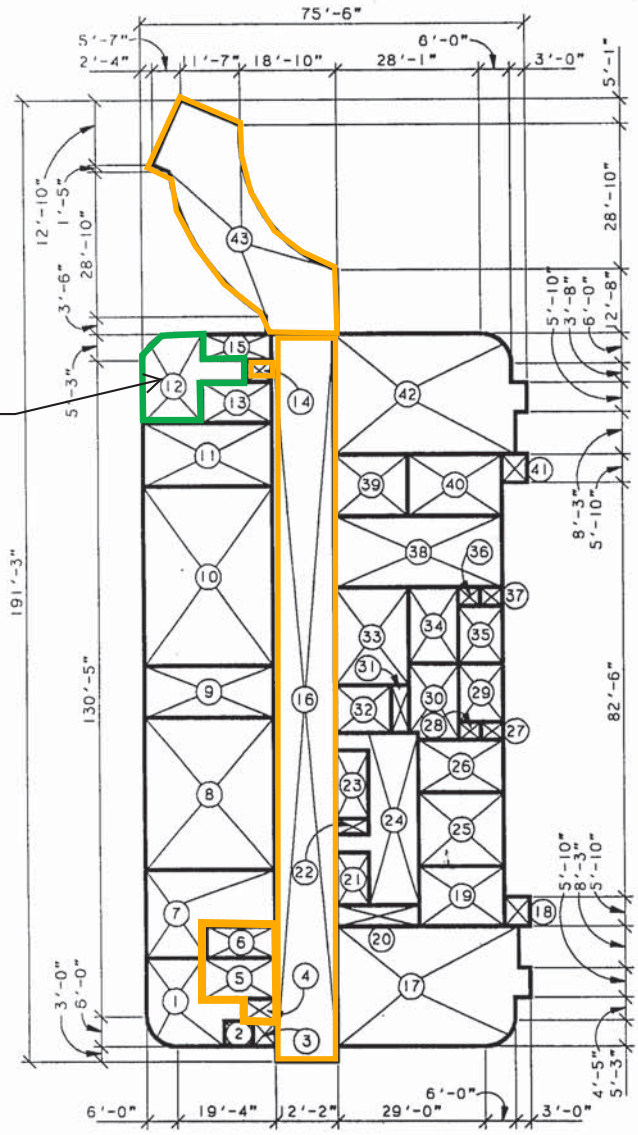
FIRST FLOOR

ADMIN & ACADEMIC BUILDING (001BBJ)

ACM-floor tile / black mastic

Assumed-ACM terazzo/ water-proofing membrane

Women's Faculty Restroom



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 4 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES01F2

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

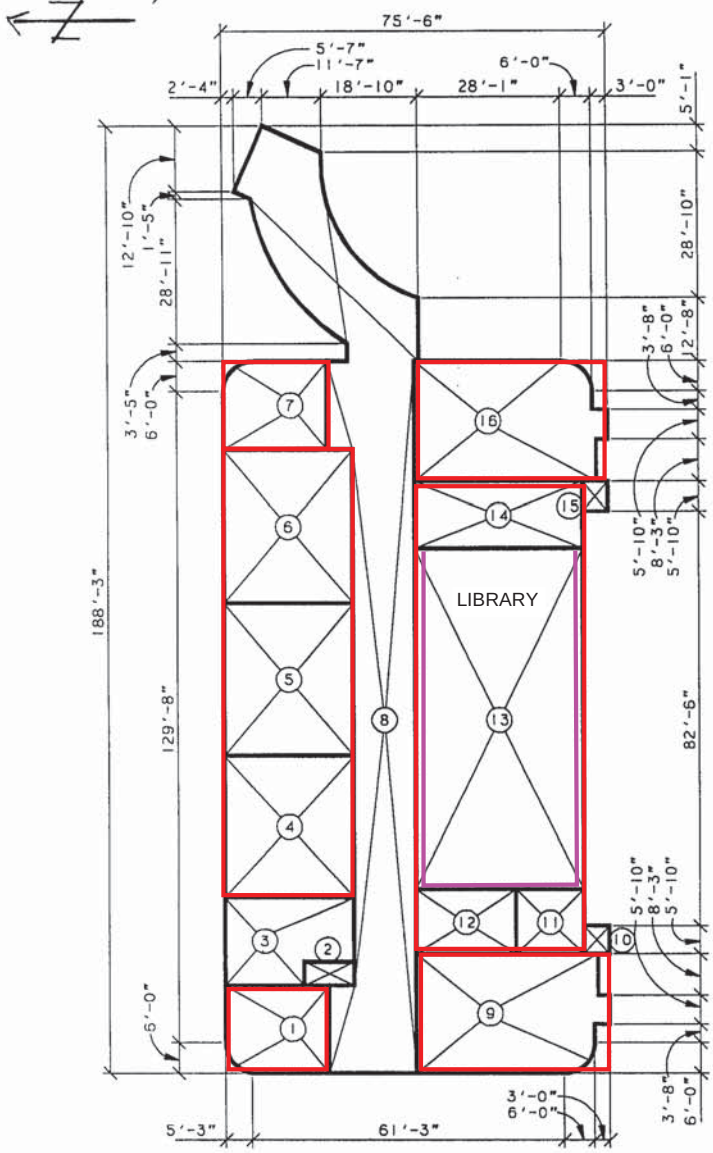
BUILDING 1

SECOND FLOOR

ADMIN & ACADEMIC BUILDING (001BBJ)

ACM-brown coat sand plaster ceiling and debris above ceiling space

ACM-acoustical plaster wall



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90

SHEET 7 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES04F1

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

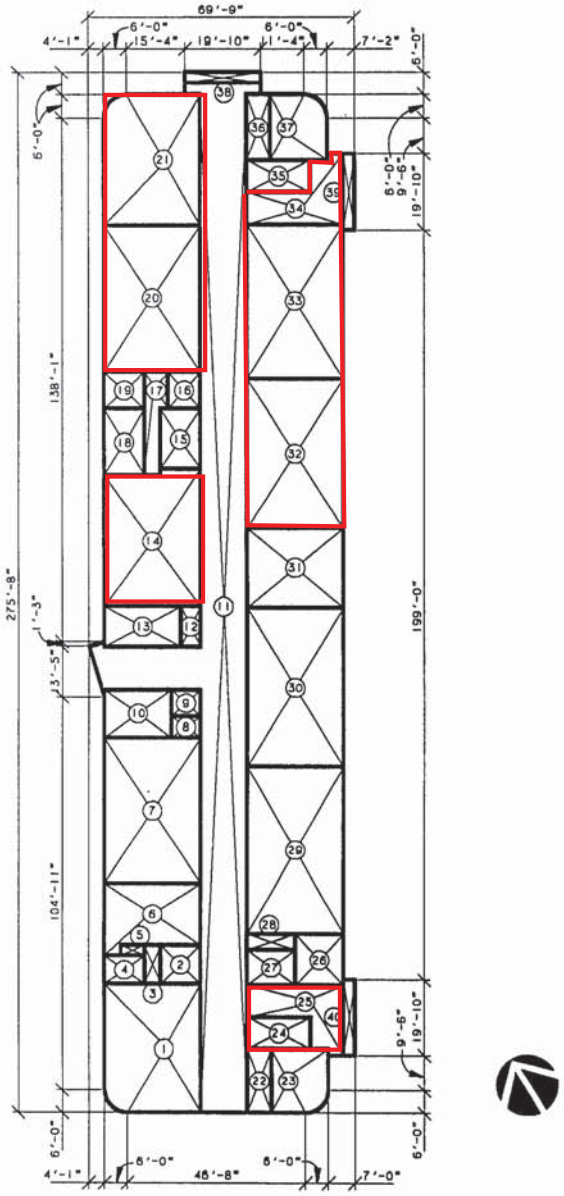
DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 4

FIRST FLOOR

ADMIN & ACADEMIC BUILDING (001BBJ)

ACM-brown coat sand plaster ceiling and debris above ceiling space



PLOT SCALE: 1"=40'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 17 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

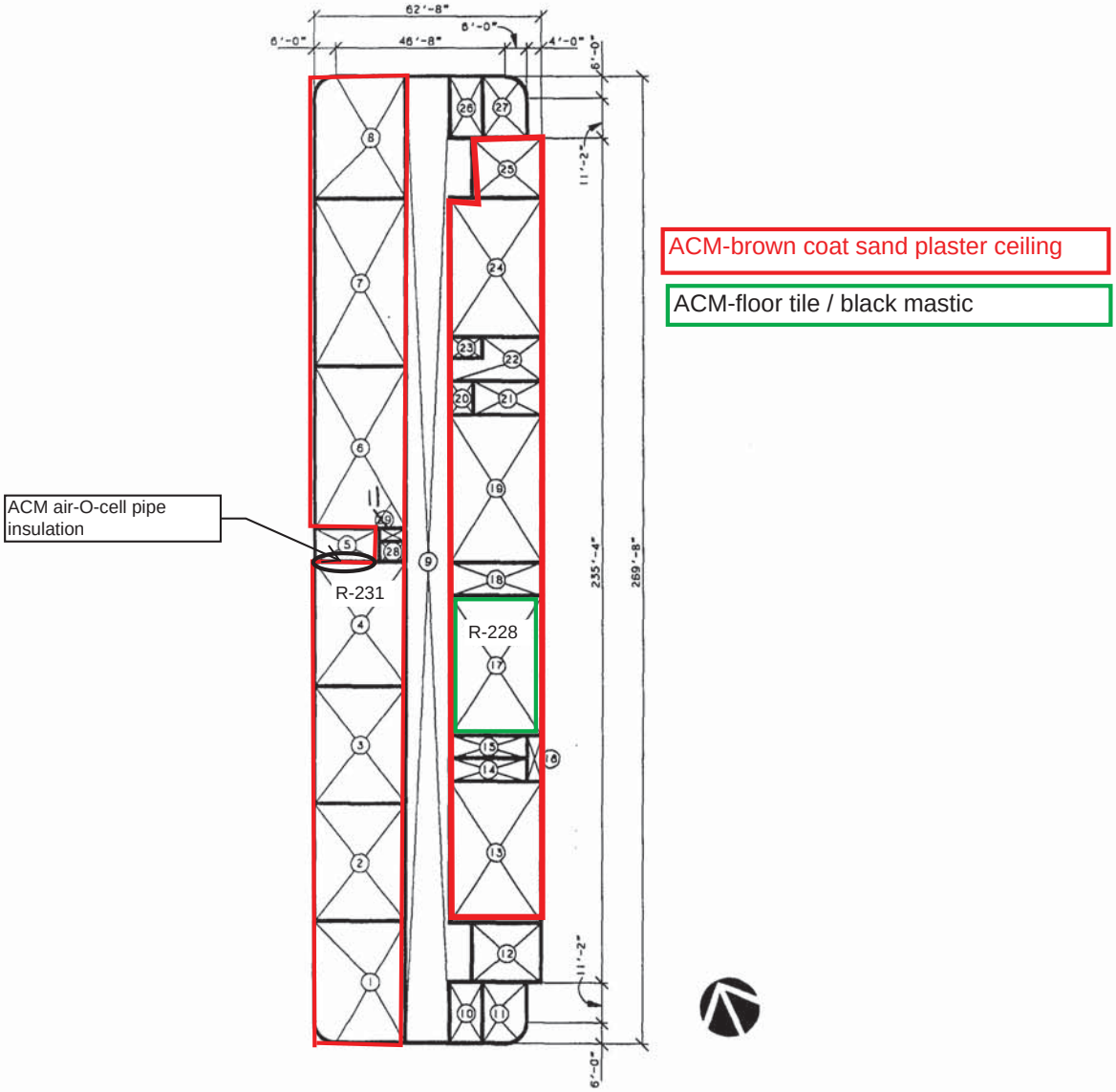
ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES04F2

BUILDING 4
SECOND FLOOR

ADMIN & ACADEMIC
BUILDING (001BBJ)



PLOT SCALE: 1"=40'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 20 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES01F2

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

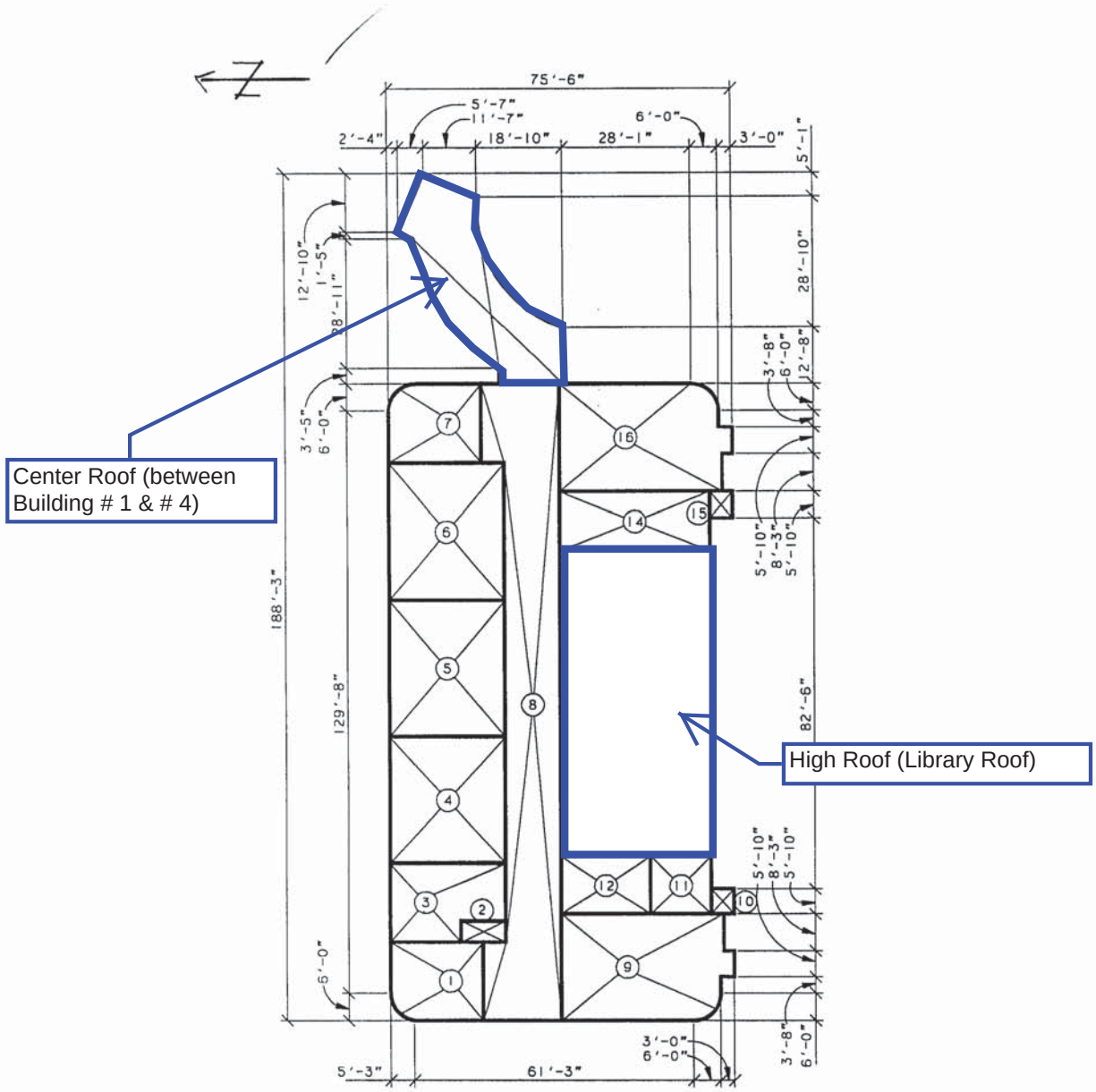
ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 1

SECOND FLOOR

ADMINISTRATION & ACADEMIC BUILDING (001BBJ)



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90

SHEET 7 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES03F1

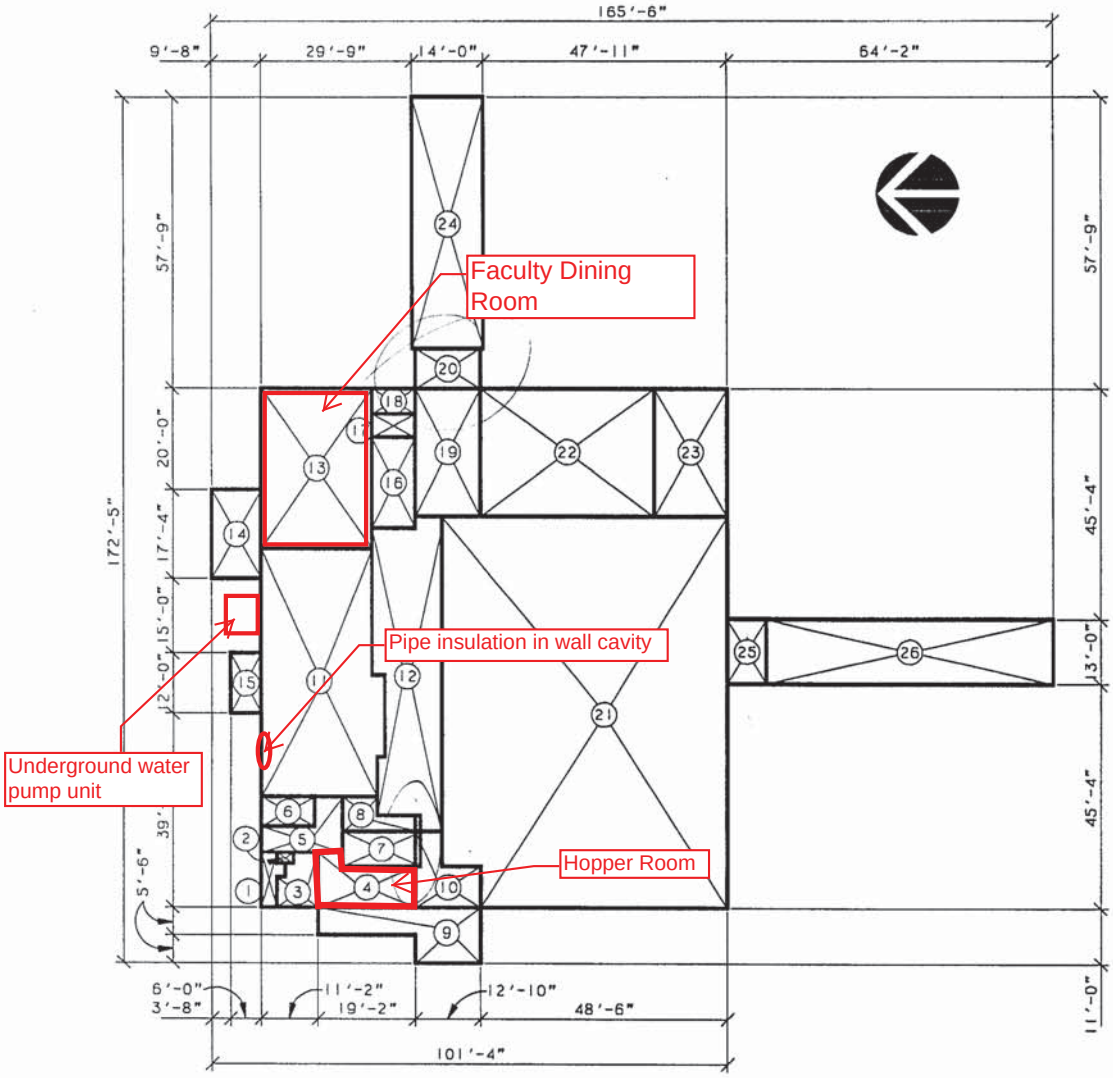
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 3

CAFETERIA BUILDING (002CAJ)



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 15 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES02F1

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

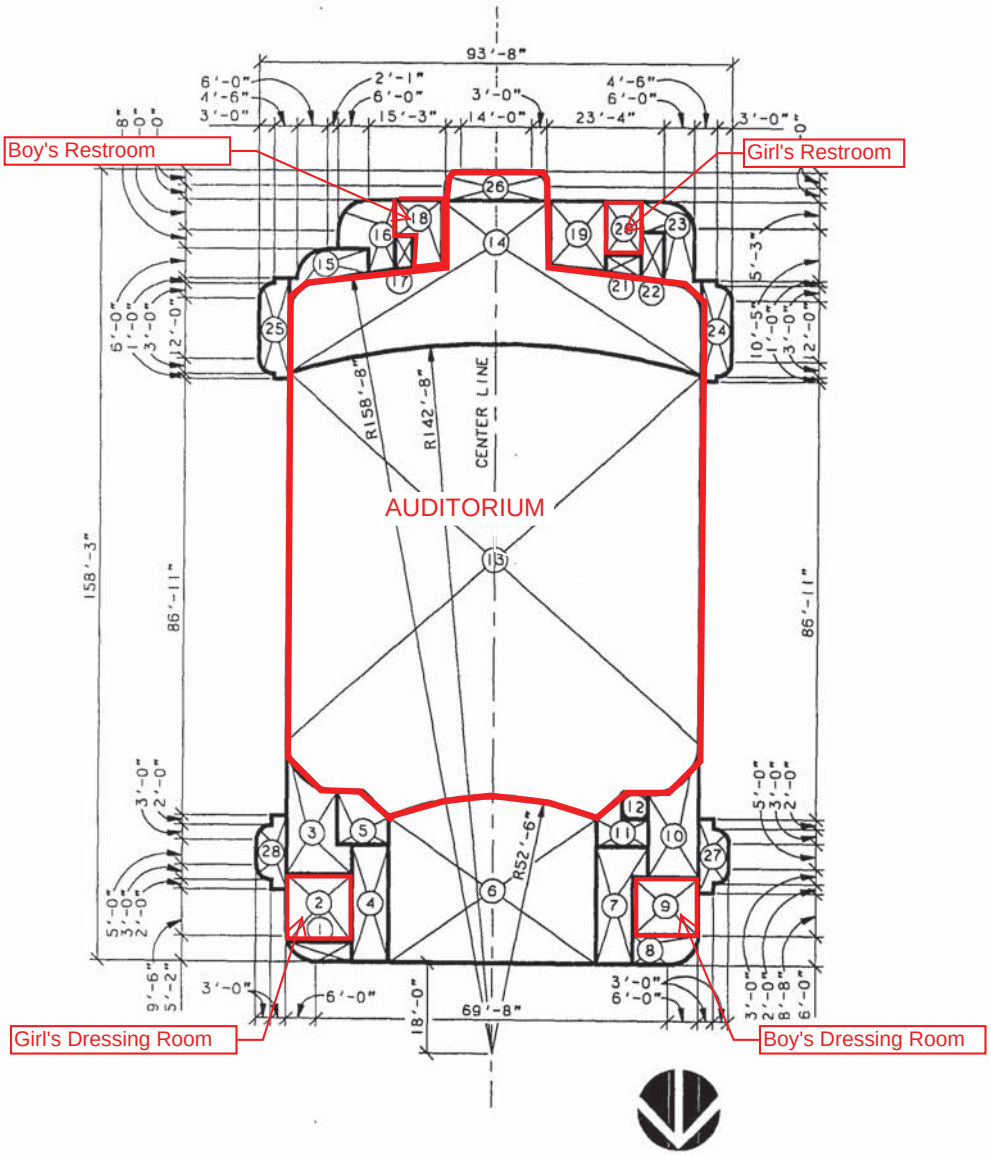
ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 2

FIRST FLOOR

ASSEMBLY BUILDING
(003BBJ)



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 9 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES06F1

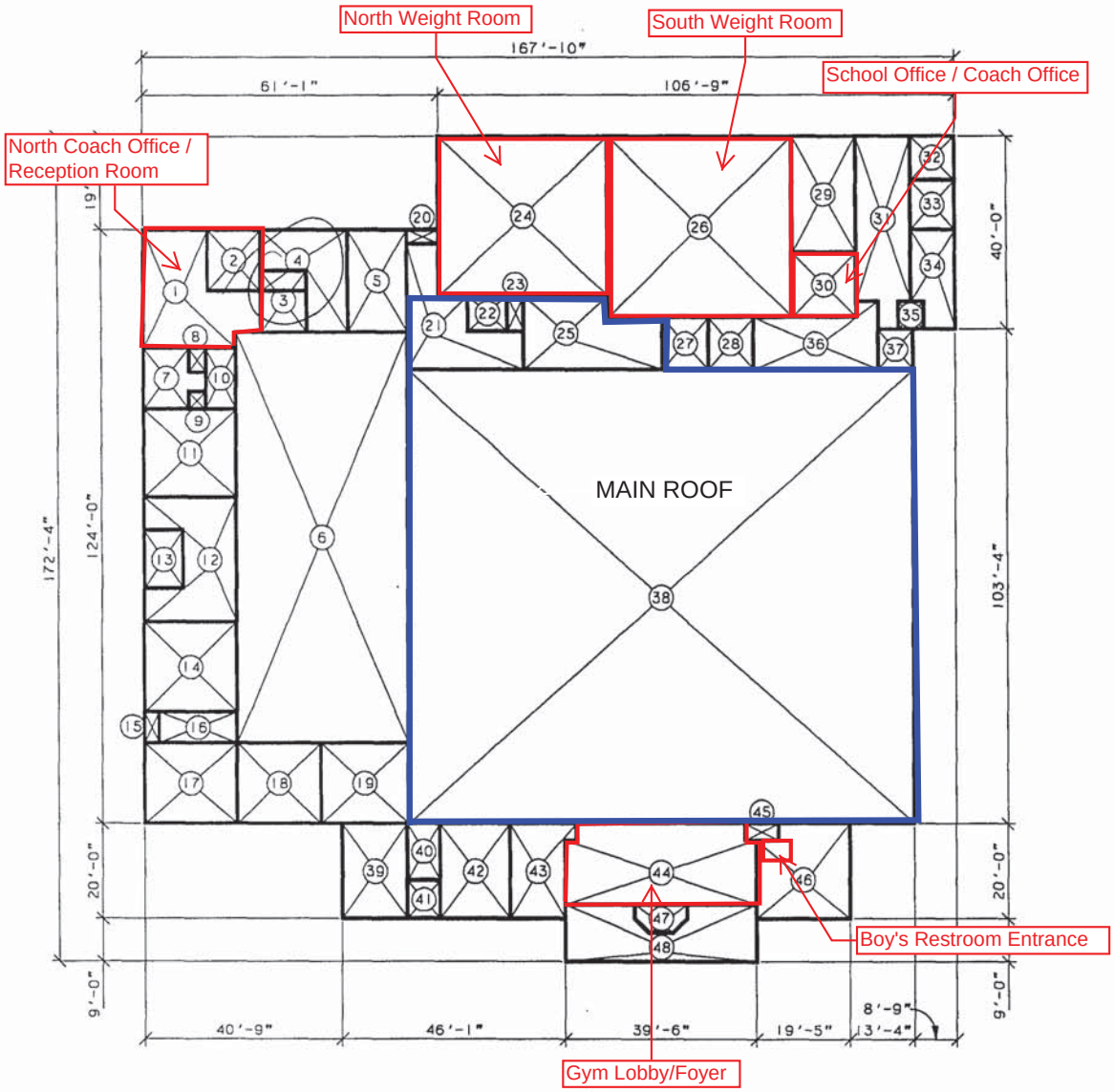
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 6

BOY GYMNASIUM
BUILDING (005BAN)



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 30 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

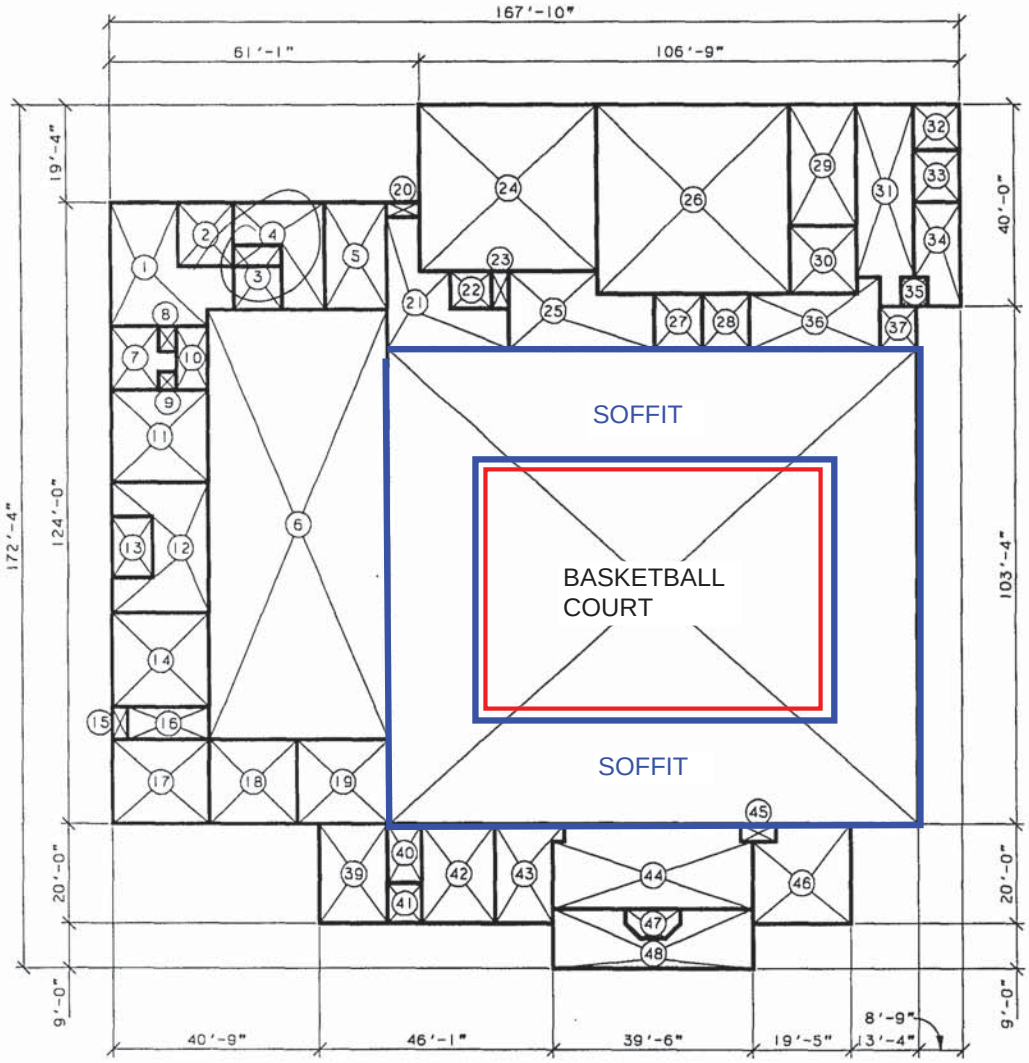
LOCATION 8714
APPLICATION NO. 22/
DRAWING JES06F1

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 6
BOY'S GYMNASIUM
BUILDING (005BAN)



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 30 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

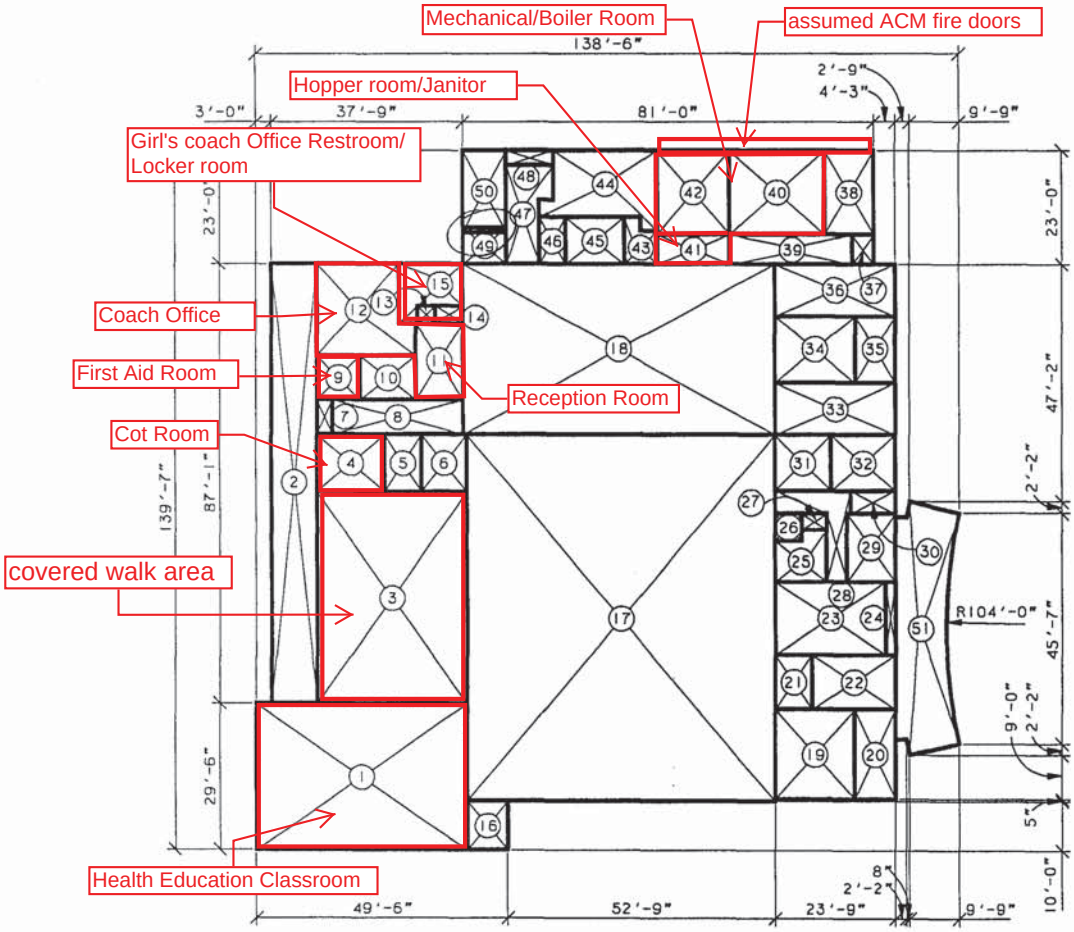
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES07F1

BUILDING 7

GIRL'S GYMNASIUM BUILDING (006BAN)



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 33 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

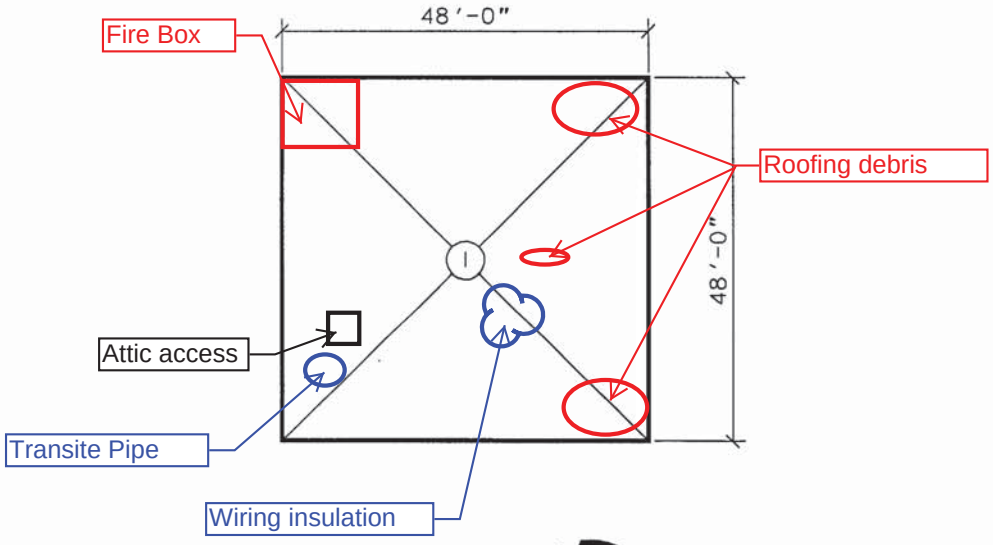
LOCATION 8714
APPLICATION NO. 22/
DRAWING JES08F1

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 8
POWER VAULT BUILDING
(007CAE)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 36 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8714

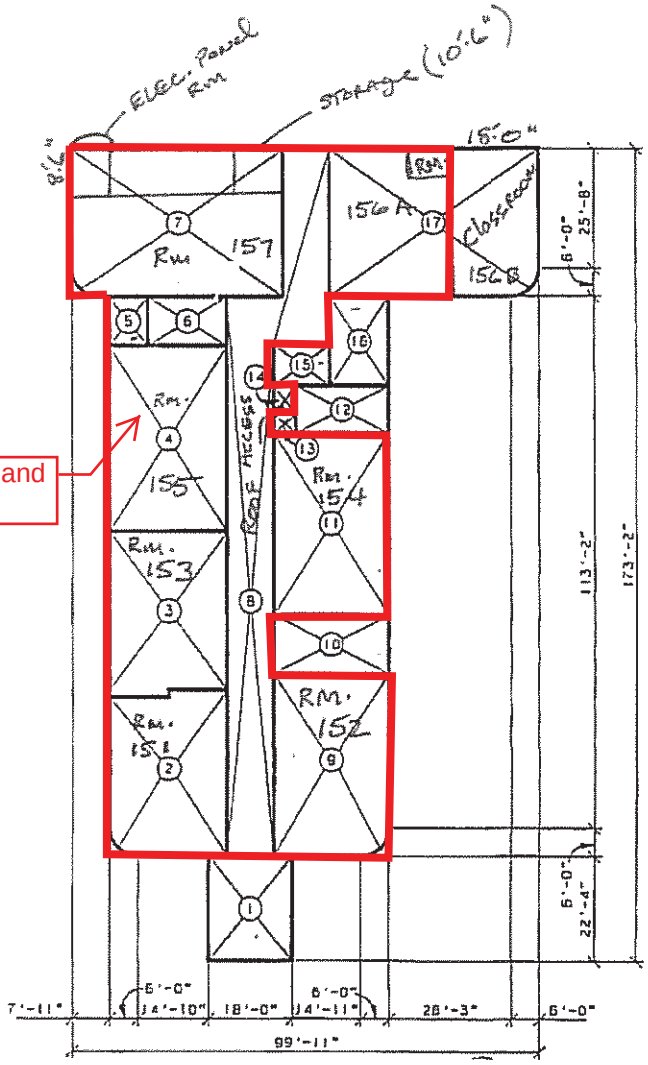
APPLICATION NO. 22/

DRAWING JESIIFI

BUILDING 11

MECHANICAL ARTS BUILDING (009BAJ)

ACM flooring materials and ceiling tile mastic



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 42 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

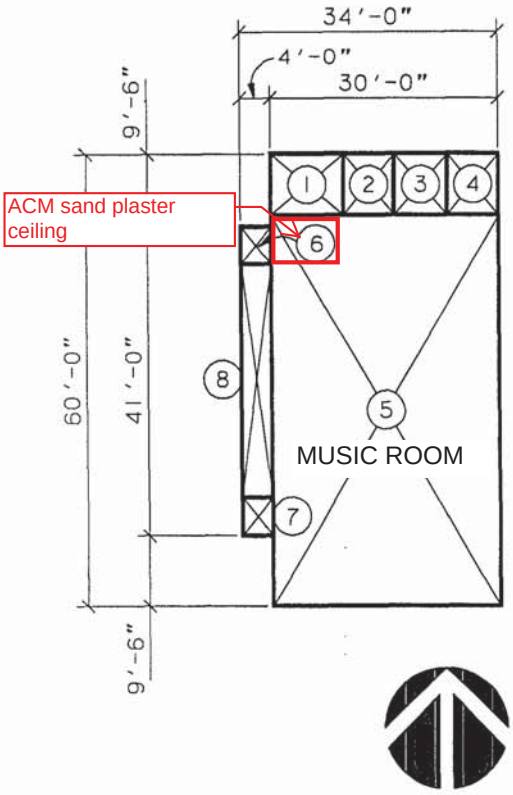
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES12F1

BUILDING 12

MUSIC BUILDING (010DAM)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90

SHEET 44 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES16F1

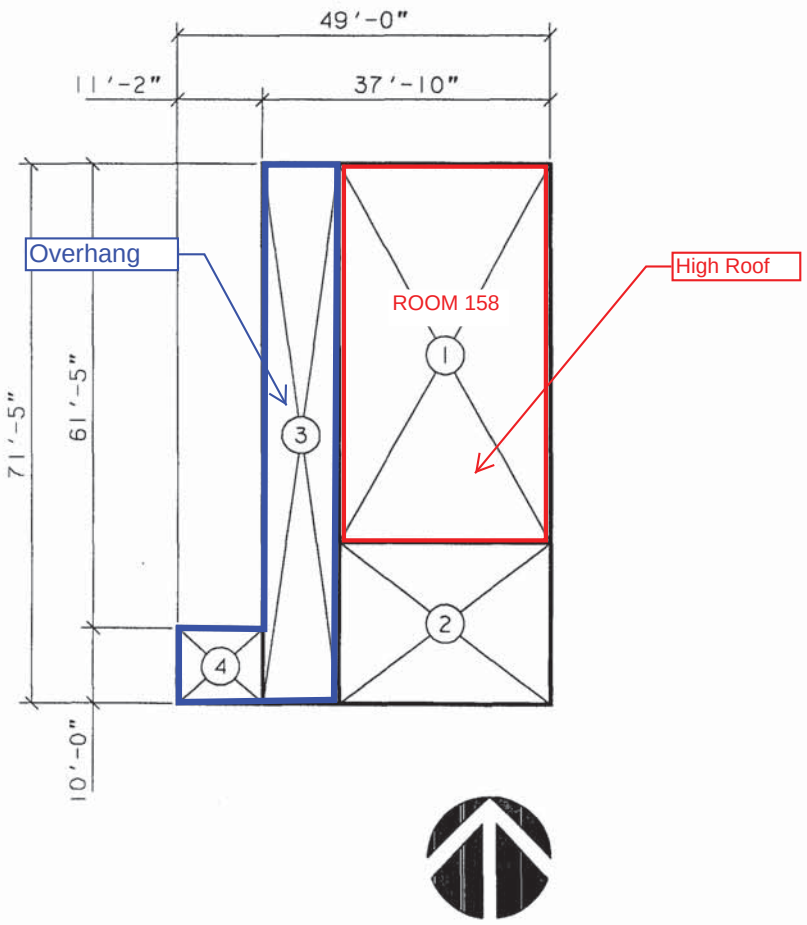
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 16

HOME MAKING
BUILDING (011DAP)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 52 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

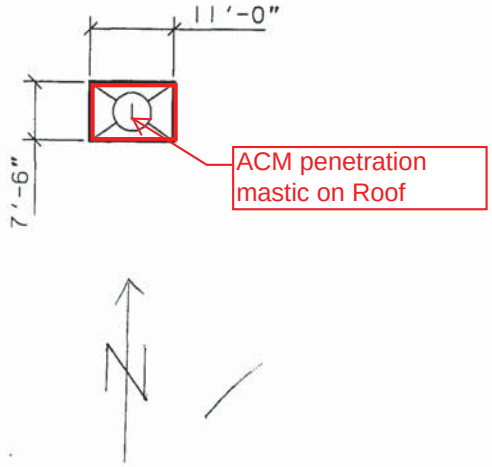
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES34F1

BUILDING 34

PUMP VAULT BUILDING
(015DON)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90

SHEET 92 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8714

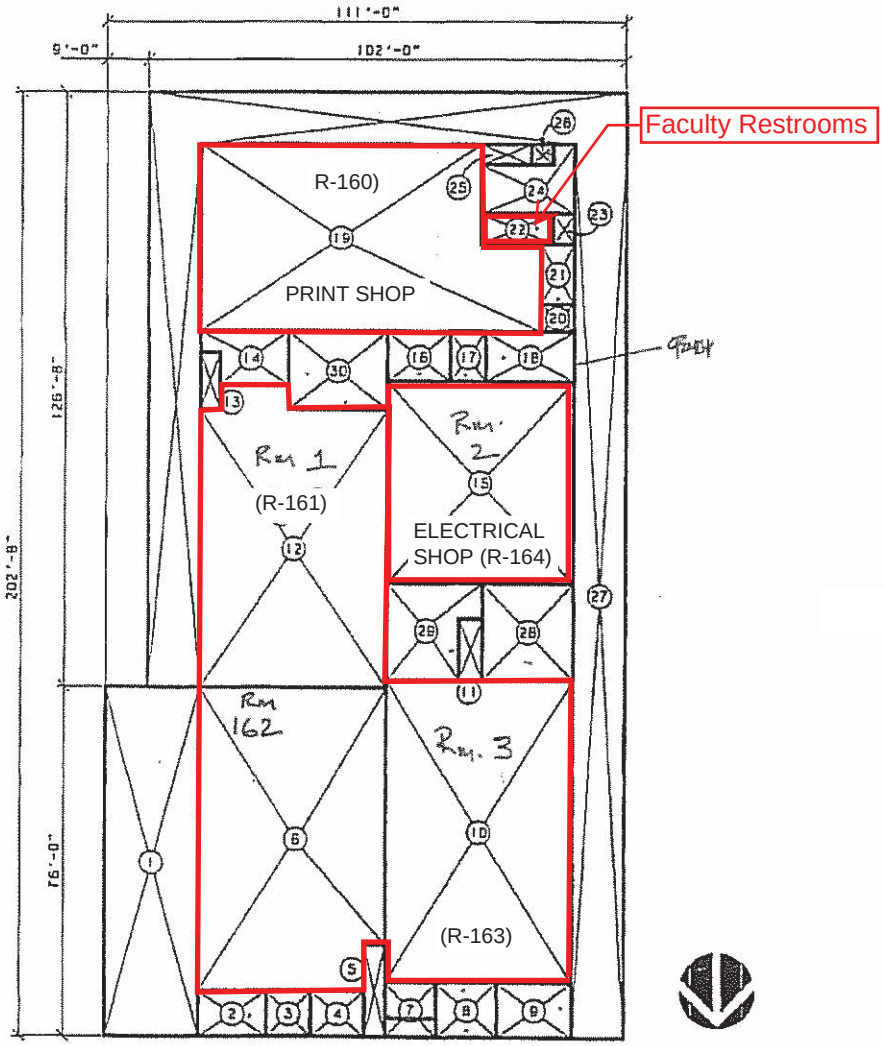
APPLICATION NO. 22/

DRAWING JES21F1

BUILDING 21

FIRST FLOOR

INDUSTRIAL ARTS BUILDING (016BAN)



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 64 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES21F1

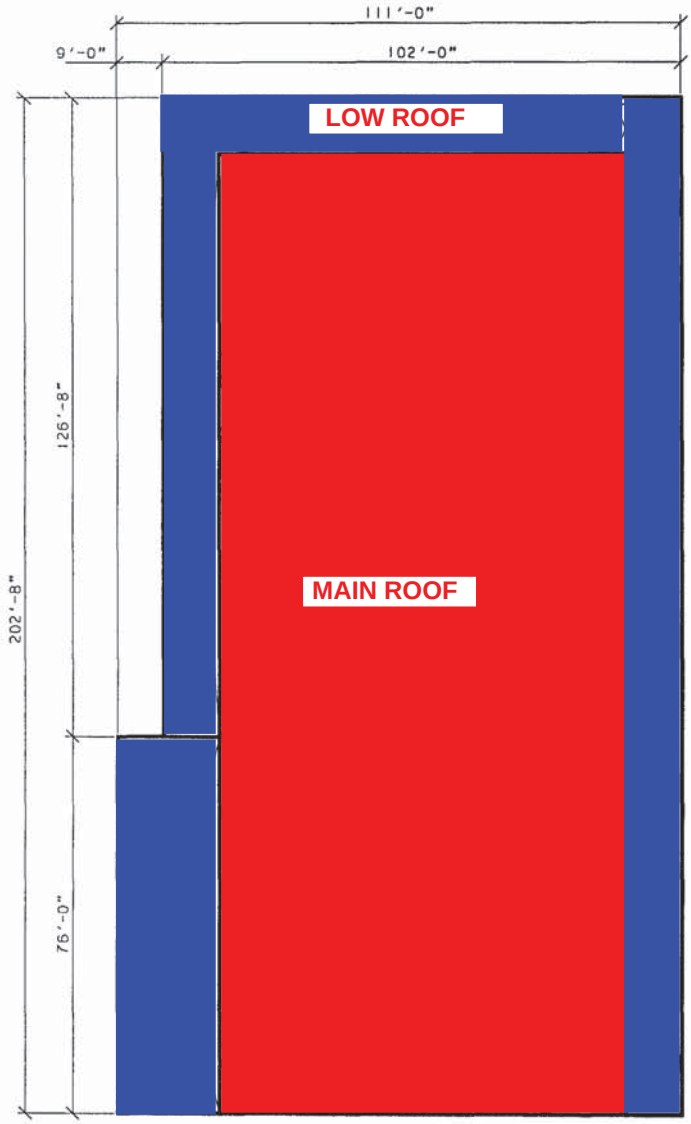
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 21
FIRST FLOOR

INDUSTRIAL ARTS
BUILDING (016BAN)



PLOT SCALE: 1"=30'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 64 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8714

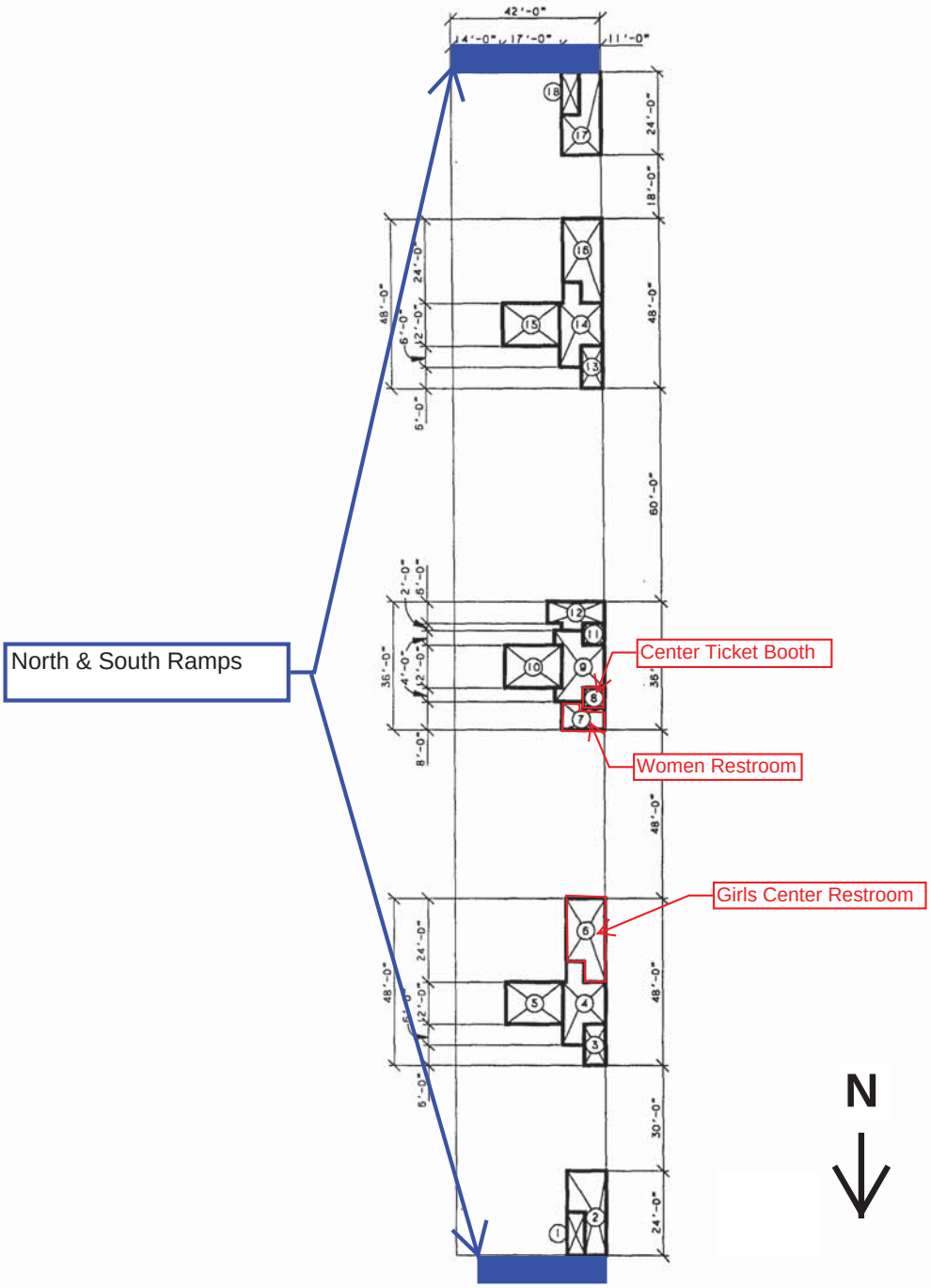
APPLICATION NO. 22/

DRAWING JES33F1

BUILDING 33

FIRST FLOOR

Sanitary Unit under Bleachers (019GAG)



PLOT SCALE: 1"=40'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 88 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES29F1

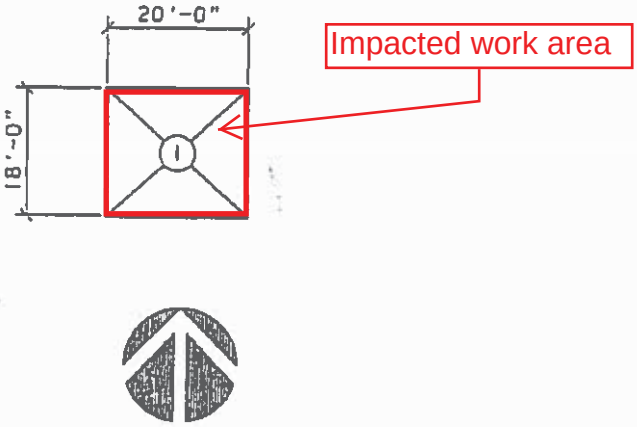
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 29

STORAGE UNIT # 4 (020DOP)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 80 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES25F1

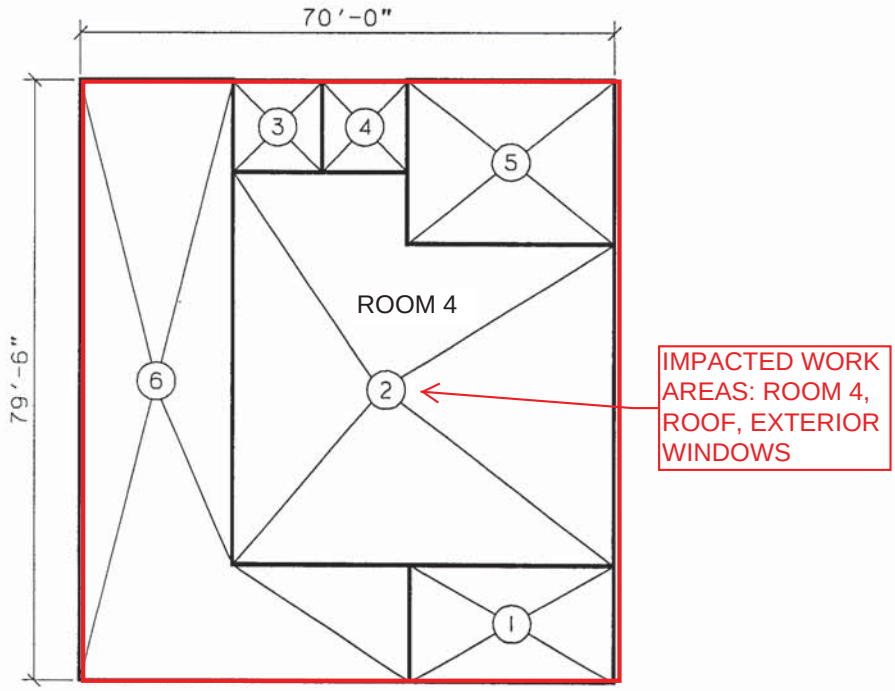
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 25

METAL SHOP BUILDING
(023DAP)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 72 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES05F1

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

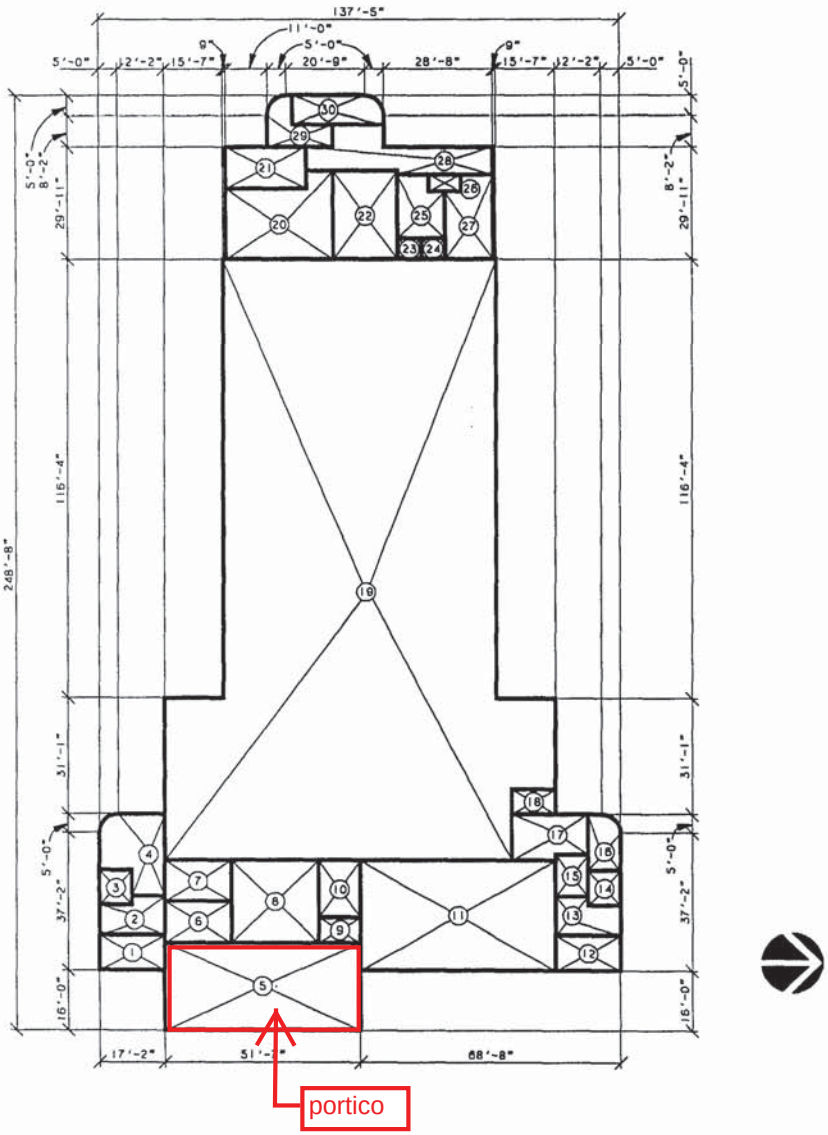
ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 5

FIRST FLOOR

SCIENCE AND CLASSROOM BUILDING (025BES)



PLOT SCALE: 1"=40'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 22 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

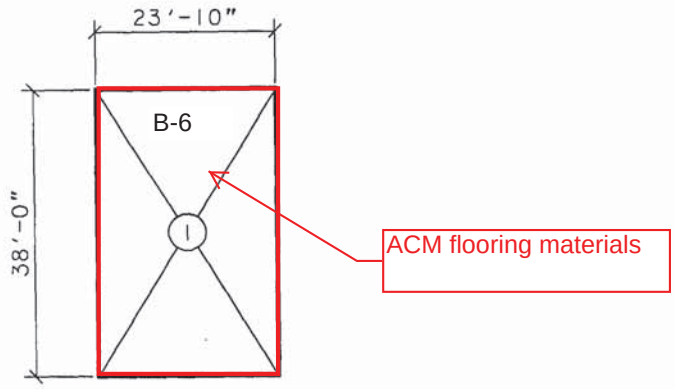
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES31F1

BUILDING 31

STANDARD CLASSROOM
RELOCATABLE (A0497L)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 84 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

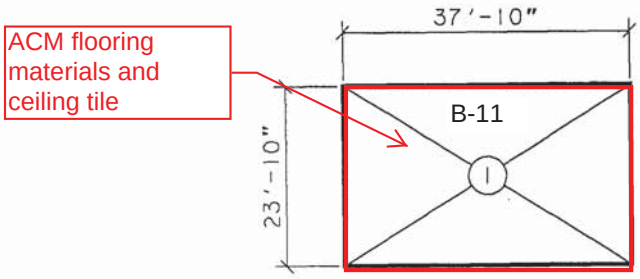
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES23F1

BUILDING 23

STANDARD CLASSROOM
RELOCATABLE (A0548M)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 68 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES38F1

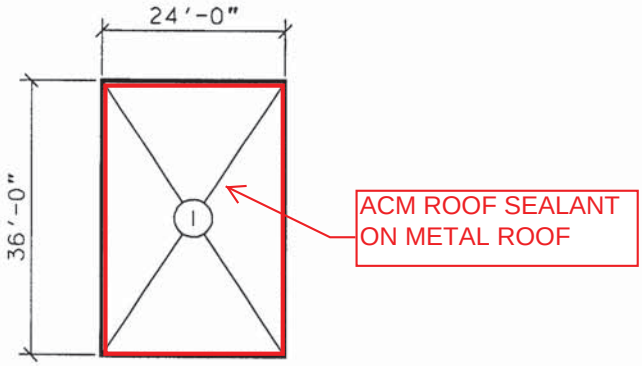
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

BUILDING 38

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

STANDARD CLASSROOM
RELCATABLE (A1245W)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 1000F 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/
DRAWING JES36F1

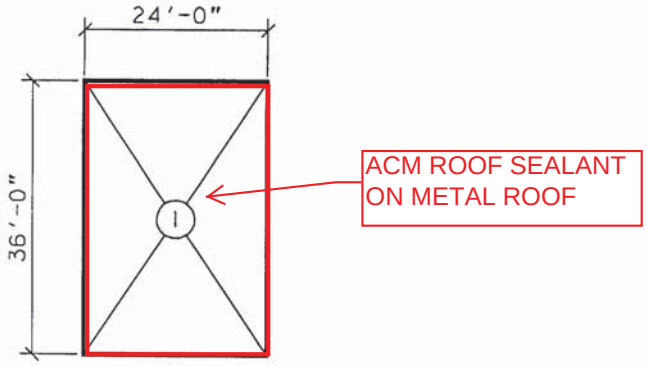
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 36

STANDARD CLASSROOM
RELOCATABLE (A1247W)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 96 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES35F1

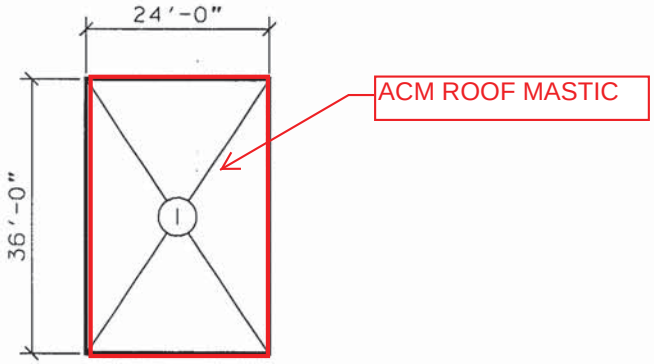
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 35

STANDARD CLASSROOM
RELOCATABLE (A1248W)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 94 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

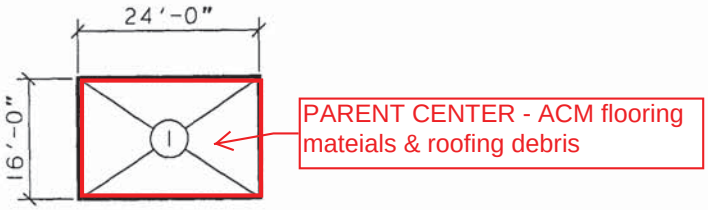
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES42F1

BUILDING 42

STANDARD CLASSROOM
RELOCATABLE (M0607L)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 108OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES19F1

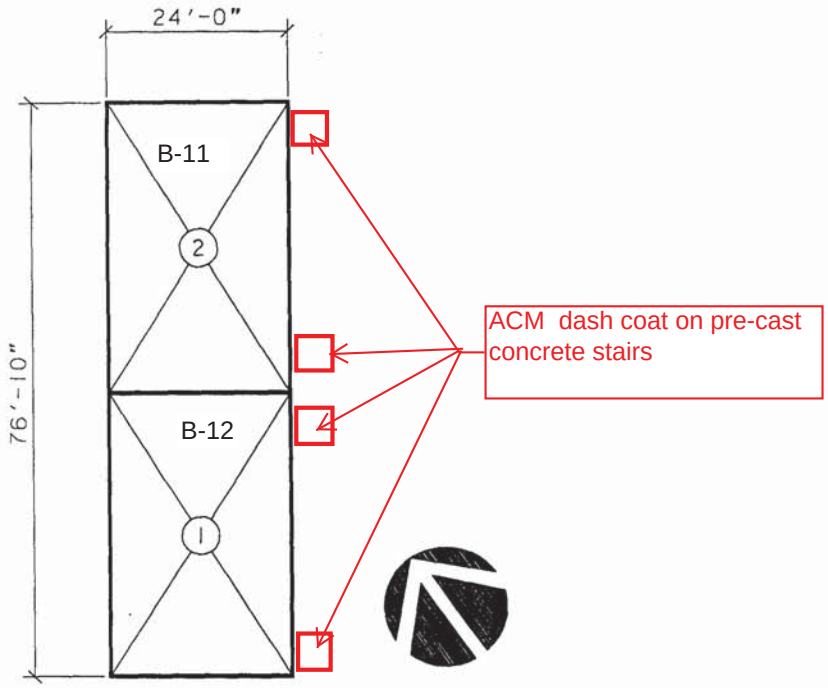
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 19

2/3 UNIT RELOCATABLE
(X0217L)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 58 OF 125 SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

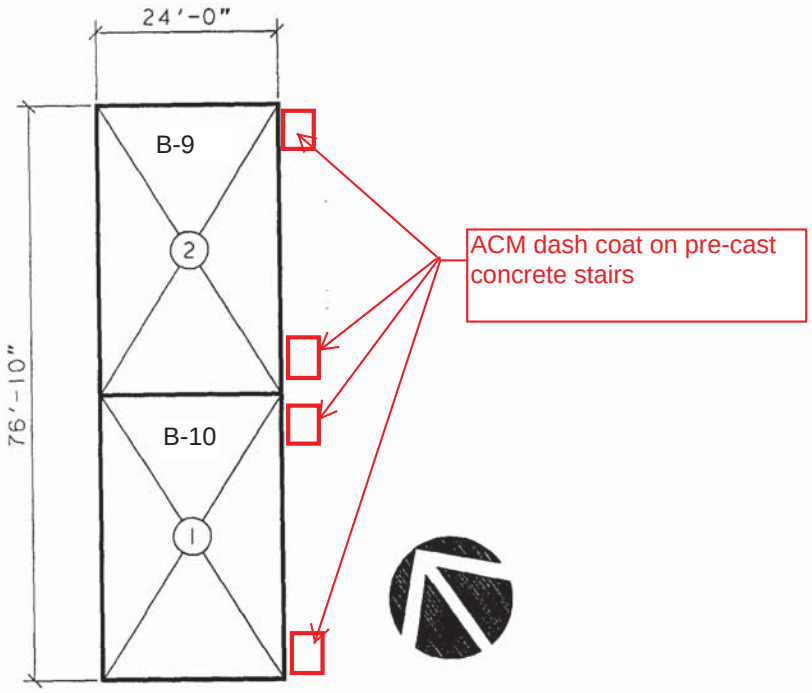
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES18F1

BUILDING 18

2/3 UNIT RELOCATABLE
(X0243)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 56 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

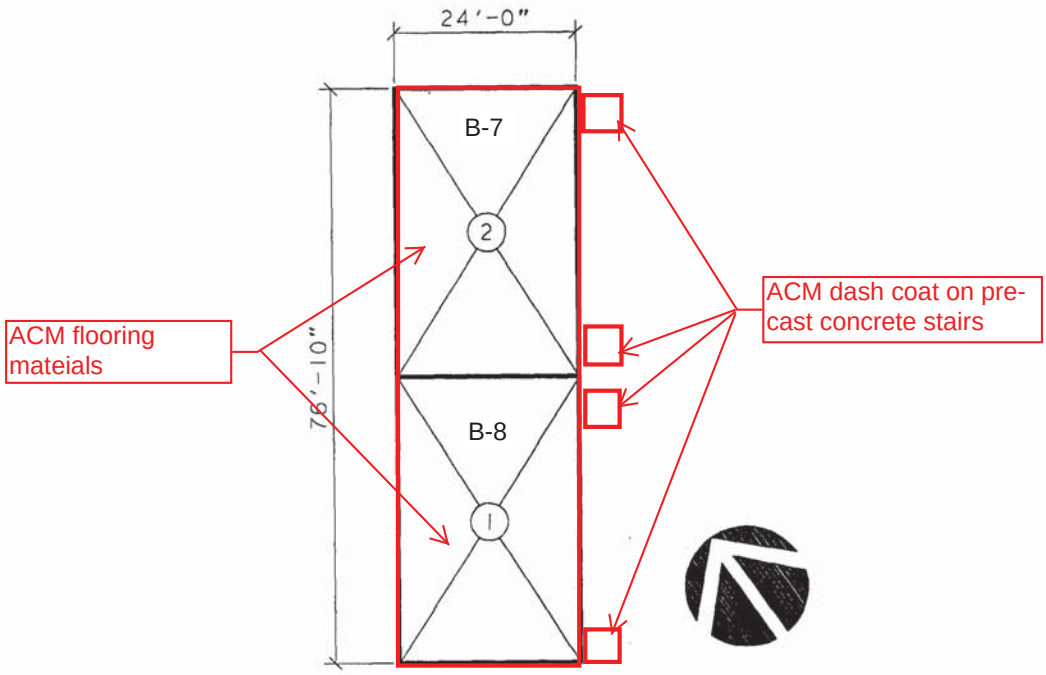
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES17F1

BUILDING 17

2/3 UNIT RELOCATABLE
(X0306L)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 54 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

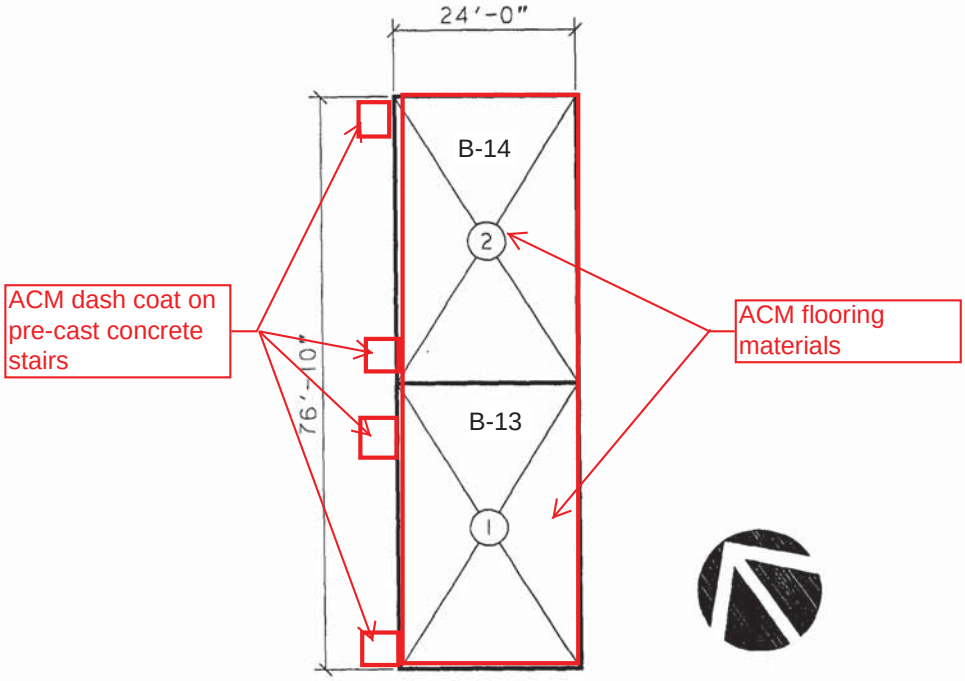
LOCATION 8714

APPLICATION NO. 22/

DRAWING JES2OF1

BUILDING 20

2/3 UNIT RELOCATABLE
(X0323L)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 60 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

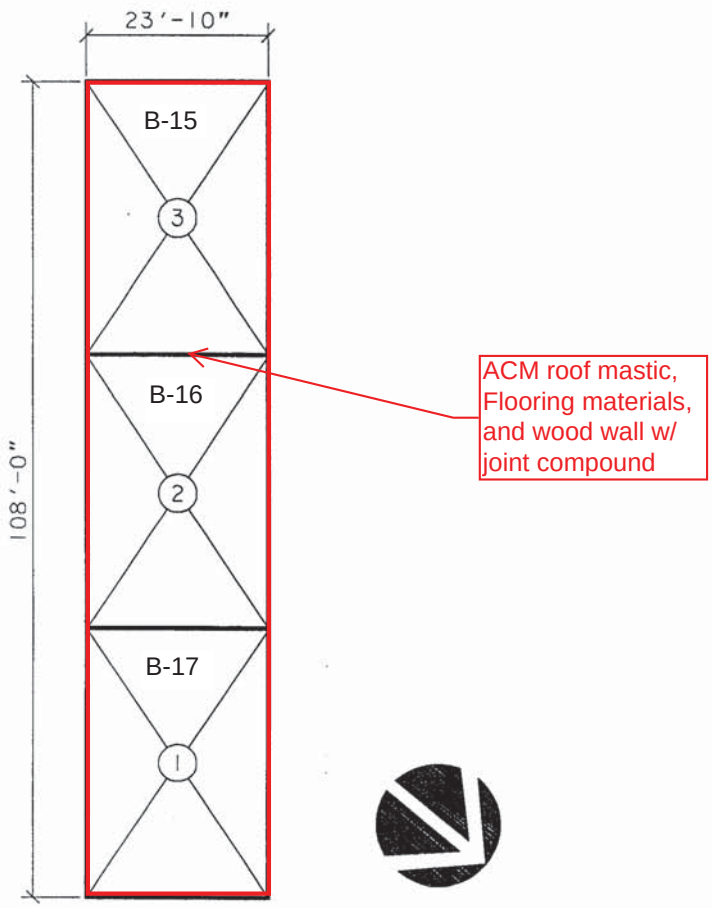
LOCATION 8714
APPLICATION NO. 22/
DRAWING JES22F1

SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 22
2/3 UNIT RELOCATABLE
(X0960M)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 66 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES24F1

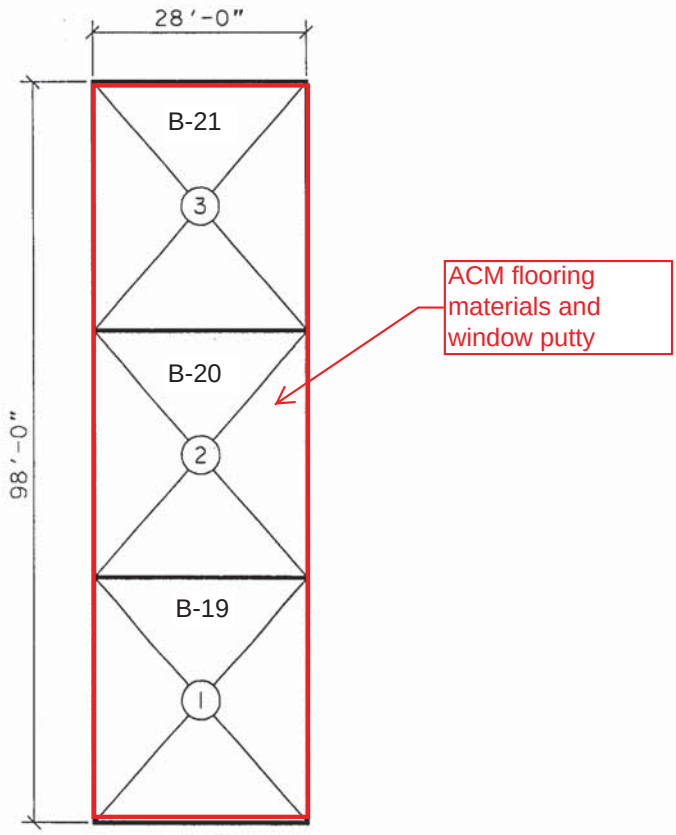
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 24

2/3 UNIT RELOCATABLE
(X2096P)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 70 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES26F1

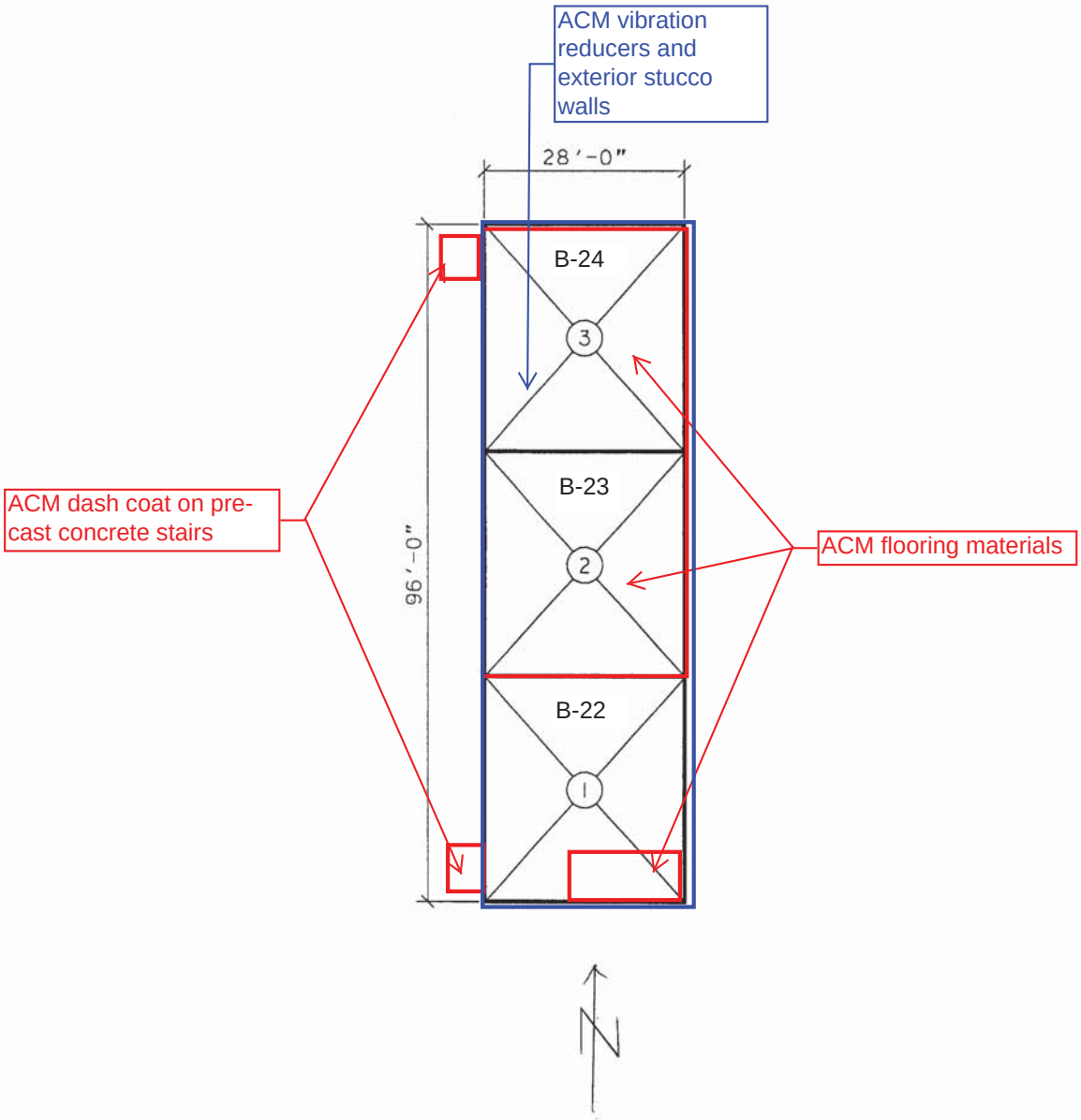
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 26

2/3 UNIT RELOCATABLE
(X2382P)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 74 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8714

APPLICATION NO. 22/

DRAWING JES32F1

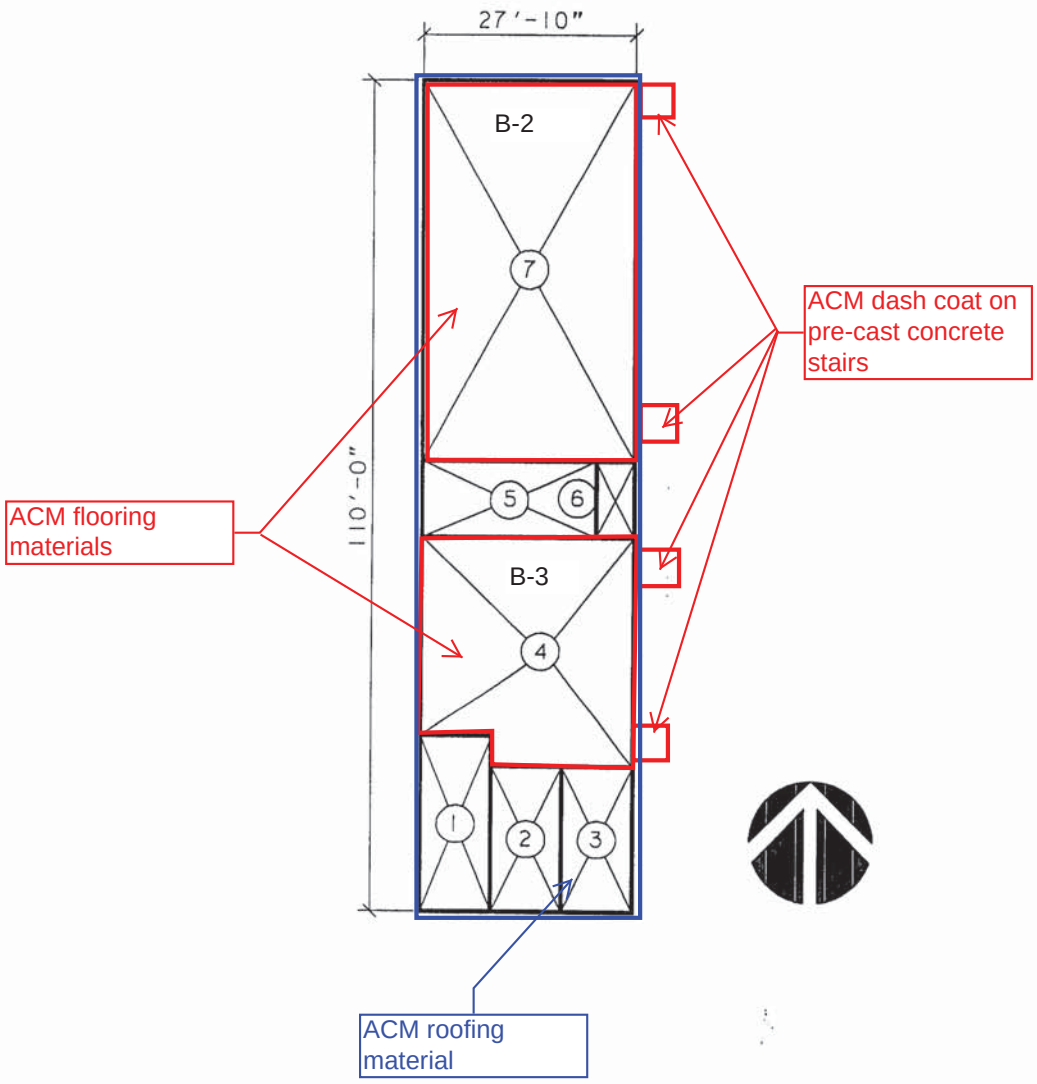
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 32

2/3 UNIT RELOCATABLE
(X2260P)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 86 OF 125SHEETS

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

LOCATION 8714
APPLICATION NO. 22/
DRAWING JES39F1

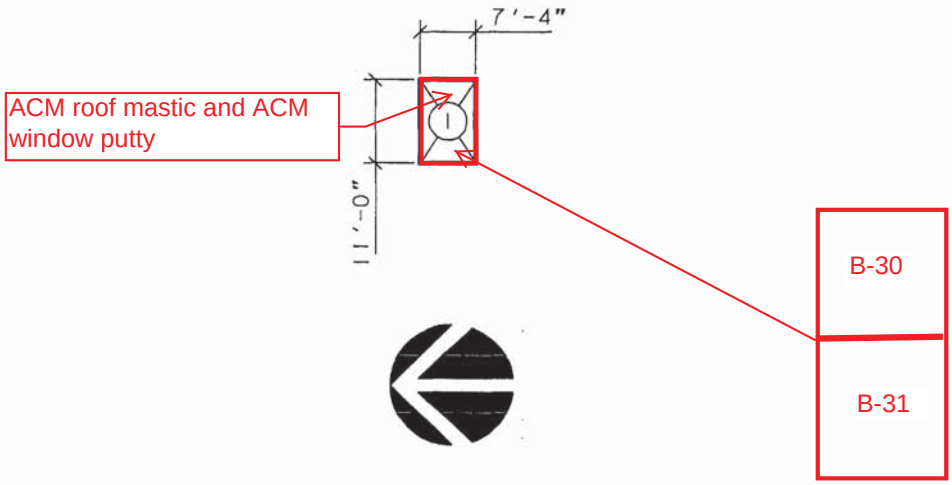
SCHOOL: THOMAS JEFFERSON HIGH SCHOOL

ADDRESS: 1319 EAST 41ST STREET
LOS ANGELES, CA 90011

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 39

2/3 UNIT RELOCATABLE
(X0909M)

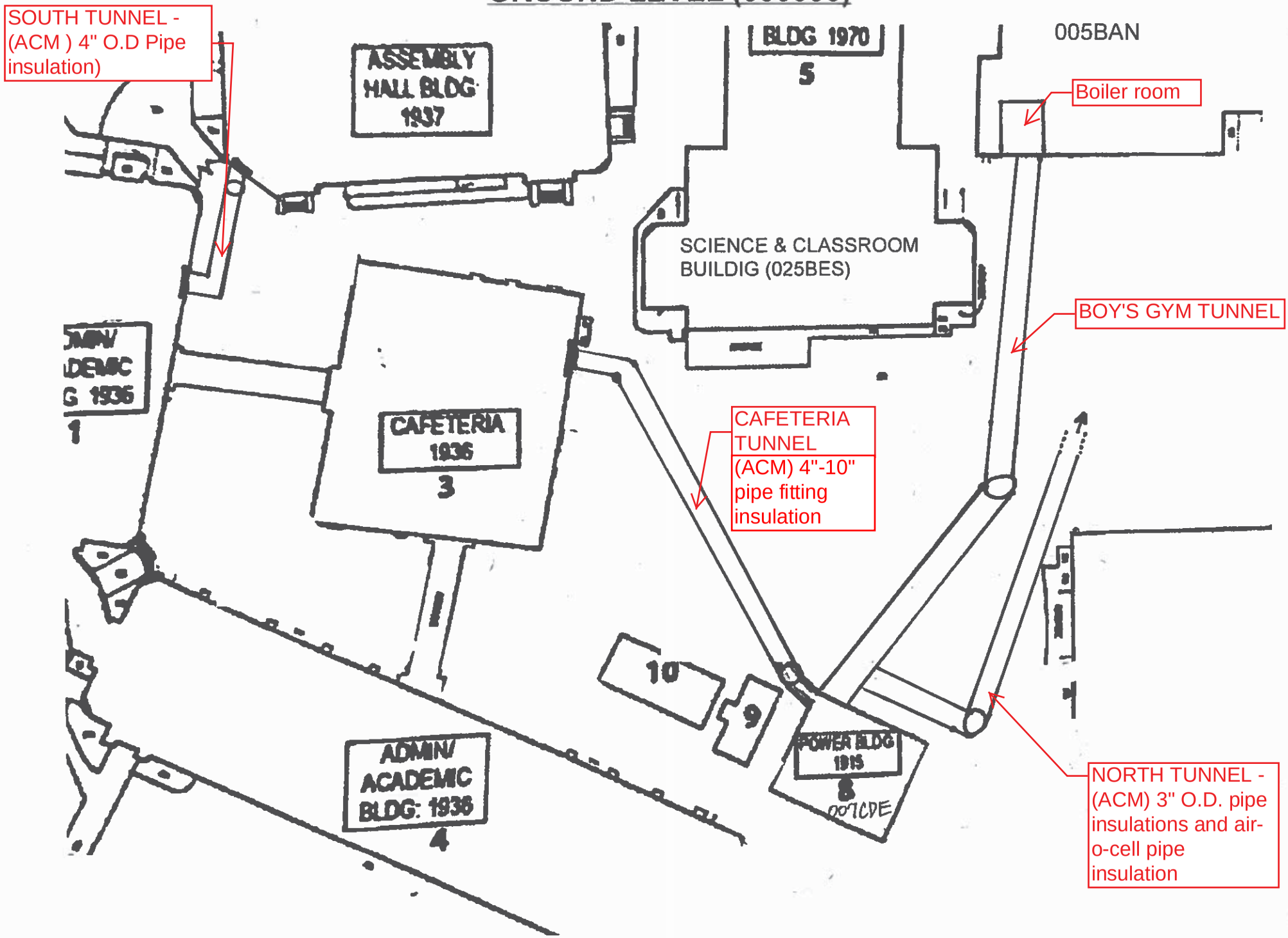


PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 12/07/90
SHEET 102OF 125SHEETS

GROUND LEVEL (000000)



JEFFERSON HIGH SCHOOL (8714)

Appendix F

Preliminary Environmental Assessment Equivalent Investigation Report

ESA

February 13, 2017

Mr. Patrick Schanen
LOS ANGELES UNIFIED SCHOOL DISTRICT
Office of Environmental Health and Safety
333 S. Beaudry Avenue, 28th Floor
Los Angeles, California 90017

Re: Draft Preliminary Environmental Assessment Equivalent Investigation Report, Thomas Jefferson High School Comprehensive Modernization, 1319 E. 41st Street, Los Angeles, California 90255

Alta Environmental Project No.: LAUS-16-6101

Dear Mr. Schanen:

Alta Environmental is pleased to present this Preliminary Environmental Assessment Equivalent (PEA-E) Report for the Thomas Jefferson High School comprehensive modernization. Please refer to the report for our findings and conclusions.

If you have any questions, please call me at (562) 495-5777.

For and on behalf of Alta Environmental,

Eric Fraske

Senior Project Manager/Senior Engineer III

DRAFT PRELIMINARY ENVIRONMENTAL ASSESSMENT - EQUIVALENT REPORT

Thomas Jefferson High School Comprehensive Modernization
1319 E. 41st Street
Los Angeles, California 90011

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 28th Floor
Los Angeles, California 90012

Project No.: LAUS-16-6101
Date: February 13, 2017

Alta Environmental
3777 Long Beach Boulevard Annex Building
Long Beach CA 90807 United States of America
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Toll-free 800 777-0605 altaenviron.com

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EXECUTIVE SUMMARY

A Preliminary Environmental Assessment Equivalent (PEA-E) for the Thomas Jefferson High School comprehensive modernization area located on the northern portion of the High School (the "Site") was conducted by Alta Environmental on behalf of the Los Angeles Unified School District Office of Environmental Health and Safety (LAUSD-OEHS).

The Site is an active high school campus made up of five adjacent parcels (Los Angeles County Tax Assessor Parcel Numbers: 5114-036-900, -901, -902, -903, -904) that total approximately 18.5 acres. The Site is bound by residential homes to the north, Compton Avenue to the east, E. 41st Street to the South, and Hooper Avenue to the west.

The Site is currently occupied by a single campus used by three schools: Thomas Jefferson High School, which has occupied the site since 1915/1916; and Student Empowerment Academy Charter and Nava College and Preparatory Academy, which have occupied the property since 2006 and 2014, respectively. The on-site buildings include a main academic and office building, auditorium, science building, cafeteria, two gymnasiums, a boiler house, arts and shops buildings, and former industrial arts buildings, as well as modular classroom buildings, storage sheds, greenhouse, covered structures, and ancillary structures (athletic, ROTC, parent's center, etc.). The northwest quarter of the subject property is developed with athletic tracks and fields and associated structures, tennis courts, and a garden area. The remainder of the property is developed with lawns and paved courtyards, assembly areas, and walkways with associated landscaping.

Previous Investigations

Previous investigations concerning the Site included the following:

- Partner Engineering and Science, Inc. (Partner) completed a Phase I ESA for the Site in May 2016. A summary of the Recognized Environmental Conditions (RECs) identified during the Phase I ESA (Partner, 2016a) and Partner's recommendations are summarized below.

Recognized Environmental Conditions

The Phase I ESA identified the following RECs:

- The subject property operated on-site industrial arts classrooms including auto engine and auto body repair. The subject property is equipped with two below-grade hydraulic lifts located within the south end of the former industrial arts building and with a spray booth on the north end of the building. The lifts were reported installed during building construction in the 1960s and the spray booth was installed in the 1980s. Soil sampling in the area of the lifts and spray booth was recommended to evaluate the potential for releases of hydraulic oil, paints, or solvents to have impacted soil.

- Three oil/water separators (clarifiers) are located to the north and east of the industrial arts building and are connected to floor drains in the spray booth and in the repair areas. Soil sampling in the area of the clarifiers was recommended to evaluate the potential for releases of oil or other petroleum based substances, and solvents to have impacted soil.

- There is one recently used shop area in the industrial arts building that previously was used for metal, electrical, wood-working, and printing classrooms and historic shop areas located south of the current industrial arts building and in the original 1916 science and arts buildings that occupied the current

location of the Academic Building prior to 1933. Based on the age of the historic shop buildings dating to 1920 or earlier, there is potential for septic tanks, sumps, or clarifiers to remain in these areas.

- Two hazardous materials storage enclosures containing 55-gallon drums of gasoline and diesel fuel are located to the west of the current arts building and one former hazardous waste storage enclosure used to store waste oil, filters, and coolant in 55-gallon drums is located to the east of the industrial arts building. These structures date to the 1950s or 1960s and potential exists for releases from these storage areas to have impacted soil.

- Two historical paint storage buildings were identified to the north and northwest of the boiler house. Potential exists that releases of paints or solvents in these locations has impacted soil,

- The boiler house building was constructed in 1916 and formerly housed fuel oil boilers and an incinerator. The potential exists that fuel oil ASTs and/or USTs were present beneath or near the building and that spillage or leakage from historical fuel storage has impacted soil.

- The northeastern portion of the subject property is used for a garden and appears to have been since prior to original site development in 1915/1916. Additionally, the center and the northeastern quarter of the property appear to have been used for agriculture until the 1950s or 1960s. Organochlorine pesticides may have been used historically in these areas.

- The potential exists for residual arsenates in soil and under pavement from application of arsenic based herbicides, based on experience at other LAUSD school sites of similar age.

- Due to the age of the on-site structures and historical use of the property for agriculture, lead, arsenic, and organochlorine pesticides in soil testing was recommended in accordance with the Department of Toxic Substances Control (DTSC)" Interim Guidance Evaluation of School Sites With Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphyenyls from Electrical Transformers revised June 9, 2006."

Recommendations

Based on the conclusions of the Phase I ESA, the following was recommended:

A Preliminary Environmental Assessment (PEA) Equivalent was recommended to evaluate and investigate the identified RECs, and determine whether soil and/or groundwater has been impacted due to the historical use of the subject property.

PEA Scoping Document

Based on findings and recommendations of the Partner Phase I ESA of the Site, additional Site investigation activities to evaluate the potential for hazardous material releases, and preparation of a PEA Scoping Document was recommended. A PEA Scoping Document (Partner, 2016b) was prepared that outlines the sampling and analysis program developed to characterize the Site due to onsite potential areas of concern. Offsite areas of potential concern and hazardous building materials (lead-based paint and asbestos) were not addressed as part of the PEA Scoping Document. The PEA Scoping Document was approved by the LAUSD on May 27, 2016 and is presented in Appendix A.

Preliminary Environmental Assessment

Alta Environmental conducted the PEA sampling and analysis program between July through November 2016. The sampling and analysis program consisted of 106 primary borings (SS1 through SS106) to evaluate potential contaminants of potential concern (COPCs) concentrations in shallow soils throughout the Site. One-hundred-thirty additional step-out borings were required to further assess lead and/or arsenic concentrations in shallow soils. The lateral and vertical extent of lead and arsenic concentrations exceeding the DTSC screening levels was successfully defined by step-out and step-down soil sampling, and confirmed by fixed laboratory analysis.

Findings and Conclusions

Based on the soil matrix sampling conducted during the PEA, Alta makes the following conclusions:

- Soil samples were collected throughout the Site at various depths and analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), arsenic, lead, and Title 22 metals. While several analytes were found at levels in excess of laboratory detection limits, only lead and arsenic were identified in soil samples in excess of residential screening levels.

- A Human Health Screening Evaluation was conducted to estimate the cumulative carcinogenic risk and hazard index posed to Site occupants by contact with lead, arsenic, or chlordane impacted soils. The cumulative carcinogenic risk based on the maximum concentrations of COPC's identified at the site is 1.92E-03. This value exceeds the DTSC's target risk value of 1E-06. The estimated hazard index of 6.34E+01 is also above the benchmark level for noncancer effects (1.0).

- Thirty-one areas with shallow soil impacted by lead and/or arsenic in excess of residential screening levels were identified throughout the campus. The shallow soil sampling for lead and arsenic in soil was able to achieve lateral and vertical definition of areas of impact at the Site. The total estimated amount of impacted soil at the Site is estimated to be approximately 229.04 cubic yards.

Recommendations

Based on the conclusions of this PEA investigation, Alta makes the following recommendation:

- Develop a Removal Action Workplan (RAW) for the Site. The RAW will address shallow soils impacted with lead and/or arsenic in the areas located throughout the campus.

1 INTRODUCTION

This document presents the results of the Preliminary Environmental Assessment Equivalent (PEA-E) performed by Alta Environmental for the Los Angeles Unified School District - Office of Environmental Health and Safety (LAUSD-OEHS). The scope of work for this project is based on the findings and recommendations presented in the *Phase I Environmental Site Assessment Report* (Phase I ESA) prepared by Partner Engineering (Partner) in May 2016 (Partner, 2016a) for the Thomas Jefferson High School Comprehensive Modernization areas located on the northern portion of the existing Thomas Jefferson High School campus (Site). A Site Location Map is presented as Figure 1. This investigation is also based on Partner's *PEA-E Workplan, Thomas Jefferson High School, 1319 E. 41st Street, Los Angeles, California 90011* dated May 27, 2016 (Partner, 2016b), submitted to LAUSD-OEHS. The scope of work implemented during this PEA investigation included: shallow soil sampling and analysis for lead-based paint (LBP) and arsenic from existing and historical on-site structures as well from application of pesticides; and soil matrix sampling and analysis for potential impacts from from hydraulic lifts, wastewater clarifiers, gasoline and diesel fuel use and storage, and historical uses of solvents and petroleum products.This PEA does not include an assessment for asbestos-containing materials (ACM) or other hazardous building materials at the Site.

2 SITE DESCRIPTION

2.1 Site Identification Information

The Site is an active high school campus made up of five adjacent parcels (Los Angeles County Tax Assessor Parcel Numbers: 5114-036-900, -901, -902, -903, -904) that total approximately 18.5 acres. The Site is bound by residential homes to the north, Compton Avenue to the east, E. 41st Street to the South, and Hooper Avenue to the west.

The Site is currently occupied by a single campus used by three schools: Thomas Jefferson High School, which has occupied the site since 1915/1916; and Student Empowerment Academy Charter and Nava College and Preparatory Academy, which have occupied the property since 2006 and 2014, respectively. The on-site buildings include a main academic and office building, auditorium, science building, cafeteria, two gymnasiums, a boiler house, arts and shops buildings, and former industrial arts buildings, as well as modular classroom buildings, storage sheds, greenhouse, covered structures, and ancillary structures (athletic, ROTC, parent's center, etc.). The northwest quarter of the subject property is developed with athletic tracks and fields and associated structures, tennis courts, and a garden area. The remainder of the property is developed with lawns and paved courtyards, assembly areas, and walkways with associated landscaping.

2.2 Site Topography

2.2.1 Topographic Setting

The Site is situated approximately 205 feet above mean sea level (Partner, 2016a) in the City of Los Angeles, Los Angeles County, California. The area is characterized by a combination of residential, commercial/industrial, public park development areas, and public roads and freeways. Although the topography of the Site is relatively flat, the Site has a slight topographic gradient to the southwest.

2.2.2 Nearest Surface Water Body

The nearest surface water body to the Site is the Los Angeles River, located approximately 1.5 miles east of the Site (Figure 1).

2.2.3 Nearest Location of Ecological Interest

No areas of ecological interest were identified on or near the subject property (Partner 2016a).

2.3 Geology and Hydrogeology

2.3.1 Geology

Per the Phase I ESA (Partner, 2016a), The subject property is situated within the northern portion of the Downey Plain in the Los Angeles Basin in the Transverse Ranges physiographic province of the State of California. The Downey Plain consists of recent alluvial deposits to the southwest of the Los Angeles River that overlie an older weathered surface. Soils in the site vicinity are generally described as Quaternary age sediments, primarily younger floodplain and stream deposits of recent alluvium and Pleistocene-age Lakewood Formation. The sediments are generally loose to dense sands, silty sands, and silts with some clayey zones. The uppermost geologic formation underlying the soils at the subject property is the Pleistocene Age Beaumont formation. The Beaumont formation comprises the underlying stratigraphy and consists mostly of clay, silt and sand deposited in stream channel, point bar, and fluvial environments. The thickness of the Beaumont formation is estimated to be over 200 feet. The Beaumont formation is underlain by the Lissie and Willis formations, which are estimated to be a total of approximately 300 feet thick.

During this PEA investigation, soil-matrix sampling identified the shallow soils at the Site to consist of combinations of silts and sands to the maximum explored depth of 10.5 feet below ground surface (bgs).

2.3.2 Hydrogeology

According to topographic map interpretation presented in the Phase I ESA (Partner, 2016b), the direction of groundwater in the vicinity of the Site is inferred to flow toward the southwest. The nearest surface water in the vicinity of the subject property is the Los Angeles River located approximately 1.5 mile east of the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the Site during this assessment.

According to depth to groundwater information published in the Phase I ESA (Partner, 2016a), depth to the water table is anticipated to be greater than 100 feet bgs.

3 BACKGROUND

3.1 Site Status and History

The Site is currently occupied by a single campus used by three schools: Thomas Jefferson High School, which has occupied the site since 1915/1916; and Student Empowerment Academy Charter and Nava College and Preparatory Academy, which have occupied the property since 2006 and 2014, respectively. The on-site buildings include a main academic and office building, auditorium, science building, cafeteria, two gymnasiums, a boiler house, arts and shops buildings, and former industrial arts buildings, as well as modular classroom buildings, storage sheds, greenhouse, covered structures, and ancillary structures

(athletic, ROTC, parent's center, etc.). The northwest quarter of the subject property is developed with athletic tracks and fields and associated structures, tennis courts, and a garden area. The remainder of the property is developed with lawns and paved courtyards, assembly areas, and walkways with associated landscaping.

Historical records presented in the Phase I ESA indicated that the property was undeveloped as late as 1850. Between 1880 and 1912, the property was cultivated for agricultural use. By 1915, a stadium had been constructed on the Site. By 1916, portions of the present-day Thomas Jefferson High School had been constructed at the Site. The Site has subsequently continually operated as a High School.

3.1.1 Current Uses of Surrounding Properties

The site is located within an area developed for a combination of commercial and residential use. The properties surrounding the Site are summarized below:

- **North:** Residences to the north and to the south of East 33rd Street (1314-1398 East 33rd Street and 3307-3313 Compton Avenue) and East 33rd Street beyond which is a truck storage yard Daylight Transport LLC (3200 Hooper Avenue)

- **South:** East 41st Street beyond which are residences (1302 and 1326 41st Street), La Favorita Market (1320 41st Street), and Morning Star Baptist Church (1334 East 41st Street)

- **East:** Compton Avenue, beyond which are Neighborhood Meat Market (3220 Compton Avenue) and Don Lee Farms and ProPortion Foods (4010-4020 Compton Avenue); and residences (3310 Compton Avenue, 1500 East 33rd Street, and 1502-1503 Martin Luther King Jr. Blvd.)

- **West:** Hooper Avenue beyond which are Jae's Market (3323 Hooper Avenue) and residences (3313, 3409, 3415, 3425, 3503, 3509, 3517, 4019, and 4051 Hooper Avenue, 1285-86 E Martin Luther King Jr. Blvd, 1290-91 E 40th Place, 1292-93 E 41st Street, 1272 E 34th Street)

3.2 Hazardous Material/Substance/Waste Management Information

Previous investigations concerning the Site included the following:

3.2.1 Business/Manufacturing Activities

The site has been developed as a High School since as early as 1916. While no business or commercial manufacturing activities are conducted at the property. Small quantities of hazardous wastes have historically been generated at the Site as a result of activities including industrial arts and auto shop classes, art classes (paint), and general operations and maintenance of the school campus.

3.2.2 Onsite Storage, Treatment, and Disposal

As detailed in the Phase I ESA (Partner, 2016a), hazardous materials noted to be stored at the Site included, Gasoline (one 55-gallon drum), diesel fuel (one 55-gallon drum), paints (various one and five gallon containers), oil (several quart size containers), and printing press blanket wash (one five-gallon container). The materials were noted to be properly labeled and stored at the time of the site assessment with no signs of leaks, stains, or spills.

3.2.3 Regulatory Status

As discussed in the Phase I ESA (Partner, 2016a), the subject property is identified as a HAZNET, RCRA SQG, FINDS, CHMIRS, and ECHO site in the regulatory database report, as discussed below:

The subject property, identified as LAUSD Jefferson High School at 1319 East 41st Street is identified as an RCRA SQG as of 1987 and no additional information or violations are reported. The listings are likely associated with generation of waste oil, paints and other materials reported generated from on-site industrial arts shops and from maintenance activities. The FINDS and ECHO listings do not reveal any additional information or entries of releases or violations. The CHMIRS entry indicates 800 gallons of sewage was released to a nearby storm drain as a results of a main line sewer blockage on November 21, 2014. The HAZNET listings indicate the subject property has generated hazardous wastes for offsite disposal under manifest of approximately one ton of unreported hazardous wastes in 2013, asbestos-containing waste in 2009 and 2011, 3.8 tons of waste oil and mixed oil, 0.86 ton of latex waste, and 0.1 ton of laboratory waste chemicals in 2010; 0.418 ton of waste and mixed oil, asbestos waste and other inorganic solid waste in 2009 as well as 297.36 tons of contaminated soil from a site cleanup in 2009, likely associated with the development of the northwest corner of the property with the wellness center and charter school buildings. 45.2 tons of asbestos-containing waste was removed in 2008, and 561.3 tons of other inorganic solid waste, 63.72 tons of contaminated soil from site cleanup, unspecified aqueous solution, and waste oil and mixed oil was removed in 2007. Asbestos containing waste was removed in 2006, waste oil and mixed oil in 2005, other inorganic solid waste in 0.13, off-specification, aged or surplus organic and photochemical/photo-processing waste in 2004, asbestos waste in 2003, waste oil and mixed oil in 2002, off-specification, aged or surplus organics and oil containing waste in 2001, other organic solids, asbestos waste and PCBs in 2000, and asbestos waste, waste oil and other organic solids in 1999; and photochemical/photo-processing waste in 1993 to 1998; and asbestos waste in 1993 and 1994.

Based on the absence of information suggesting a release and reported prior removal of impacted soil, this listing is not expected to represent a significant environmental concern.

The subject property identified as Jefferson Continuation High School at 33rd Street and Hooper Avenue is identified as a school investigation site with a status of inactive-withdrawn

3.2.1 Prior Assessments/Remediation

Alta Environmental was not provided with reports of prior assessment or remediation at the Site.

3.2.2 Summary of Phase I ESA Findings

Recognized environmental conditions (RECs) identified during the Phase I ESA (Partner, 2016a) are summarized below.

3.2.3 RECs

The Phase I ESA identified the following RECs:

- The subject property operated on-site industrial arts classrooms including auto engine and auto body repair. The subject property is equipped with two below-grade hydraulic lifts located within the south end of the former industrial arts building and with a spray booth on the north end of the building. The lifts were reported installed during building construction in the 1960s and the spray booth was installed

in the 1980s. Soil sampling in the area of the lifts and spray booth was recommended to evaluate the potential for releases of hydraulic oil, paints, or solvents to have impacted soil.

- Three oil/water separators (clarifiers) are located to the north and east of the industrial arts building and are connected to floor drains in the spray booth and in the repair areas. Soil sampling in the area of the clarifiers was recommended to evaluate the potential for releases of oil or other petroleum based substances, and solvents to have impacted soil.

- There is one recently used shop area in the industrial arts building that previously was used for metal, electrical, wood-working, and printing classrooms and historic shop areas located south of the current industrial arts building and in the original 1916 science and arts buildings that occupied the current location of the Academic Building prior to 1933. Based on the age of the historic shop buildings dating to 1920 or earlier, there is potential for septic tanks, sumps, or clarifiers to remain in these areas.

- Two hazardous materials storage enclosures containing 55-gallon drums of gasoline and diesel fuel are located to the west of the current arts building and one former hazardous waste storage enclosure used to store waste oil, filters, and coolant in 55-gallon drums is located to the east of the industrial arts building. These structures date to the 1950s or 1960s and potential exists for releases from these storage area to have impacted soil.

- Two historical paint storage buildings were identified to the north and northwest of the boiler house. Potential exists that releases of paints or solvents in these locations has impacted soil,

- The boiler house building was constructed in 1916 and formerly housed fuel oil boilers and an incinerator. The potential exists that fuel oil ASTs and/or USTs were present beneath or near the building and that spillage or leakage from historical fuel storage has impacted soil.

- The northeastern portion of the subject property is used for a garden and appears to have been since prior to original site development in 1915/1916. Additionally, the center and the northeastern quarter of the property appear to have been used for agriculture until the 1950s or 1960s. Organochlorine pesticides may have been used historically in these areas.

- The potential exists for residual arsenates in soil and under pavement from application of arsenic based herbicides, based on experience at other LAUSD school sites of similar age.

- Due to the age of the on-site structures and historical use of the property for agriculture, lead, arsenic, and organochlorine pesticides in soil testing is recommended in accordance with the Department of Toxic Substances Control (DTSC) ”Interim Guidance Evaluation of School Sites With Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphyenyls from Electrical Transformers revised June 9, 2006.”

3.2.4 Phase I ESA Recommendations

Based on the conclusions of the Phase I ESA, the following was recommended:

A Preliminary Environmental Assessment (PEA) Equivalent was recommended to evaluate and investigate the identified RECs, and determine whether soil and/or groundwater has been impacted due to the historical use of the subject property.

3.3 PEA Scoping Document

Based on findings and recommendations of the Partner Phase I ESA of the Site, additional Site investigation activities to evaluate the potential for hazardous material releases, and preparation of a PEA Scoping Document was recommended. A PEA Scoping Document (Partner, 2016b) was prepared that outlines the sampling and analysis program developed to characterize the Site due to onsite potential areas of concern. Offsite areas of potential concern and hazardous building materials (lead-based paint and asbestos) were not addressed as part of the PEA Scoping Document. The PEA Scoping Document was approved by the LAUSD on May 27, 2016 and is presented in Appendix A.

4 APPARENT PROBLEM

4.1 Objectives

The objectives of the PEA equivalent are as follows:

- Determine through a field sampling and analysis program whether historical uses of the Site have resulted in the presence of hazardous materials in soil at the Site, and if so, the concentrations and spatial extent of the hazardous materials.
- Assess the potential threat to public health and the environment from any hazardous materials on the Site using a residential land use scenario.

4.2 Scope of Work

The PEA equivalent scope of work implemented to prepare this PEA included:

- Preparation of a Site-specific Health and Safety Plan (HASP);
- Preparation and posting of a field notice (English and Spanish) at the Site.
- Implementing field and laboratory data collection and evaluation to assess environmental conditions at the Site, including field-based adjustments to the scope of work initially outlined in the PEA Scoping Document (Partner, 2016b). This scope of work included:
    - Shallow soil sampling at 106 locations for potential LBP, arsenic, OCPs, limited PCBs and at some locations (as directed in the PEA Scoping Document), VOCs, TPH, and Title 22 metals.
    - Advancement of soil borings to depths of 10 feet bgs at eight selected locations throughout the site to address potential impact from three on-site clarifiers and in-ground hydraulic lifts Collected soil samples in these areas were analyzed for TPH, VOCs, and PCBs, as defined in the PEA Scoping Document.
- Preparation of this report.

Based on field results and in consultation with the LAUSD-OEHS, the sampling and analysis program was adjusted to complete the PEA equivalent investigation. Refer to Section 8 for as discussion and rationale of the field variances. The overall field and laboratory program conducted under the oversight of the LAUSD-OEHS from July through November 2016, included the following:

- A total of 106 borings (SS1 through SS106) for shallow soil sampling purposes were advanced throughout the Site;
- One-hundred thirty additional step-out shallow soil sample boring locations throughout the Site were required to further assess lead and/or arsenic concentrations in shallow soils.

The samples collected for chemical analysis included the following:

- A total of 346 primary and 36 duplicate soil samples were analyzed for lead by EPA Method 6010B;
- A total of 125 primary and 12 duplicate soil samples were analyzed for arsenic by EPA Method 6020;
- A total of 24 primary composite and 2 duplicate composite soil samples were analyzed for OCPs by EPA Method 8081A;
- A total of 9 primary discrete soil samples were analyzed for OCPs by EPA Method 8081A;
- A total of 43 primary soil samples and 4 duplicate soil samples were analyzed for PCBs by EPA Method 8082;
- A total of 8 primary soil samples and 1 duplicate soil sample were analyzed for Title 22 Metals by EPA Method 6010B and 7471A;
- A total of 42 primary soil samples and 4 duplicate soil samples were analyzed for Petroleum Hydrocarbons by EPA Method 8015M;
- A total of 44 primary soil samples and 4 duplicate soil samples were analyzed for VOCs by EPA Method 8260B;

5 ENVIRONMENTAL SETTING

A description of the Site's general environmental setting (topography, geology, hydrogeology) is presented in Section 2 of this report. This information was used to develop a preliminary Conceptual Site Model (CSM), discussed below.

5.1 Conceptual Site Model

A Conceptual Site Model (CSM) detailing the fate and transport of PCOC was prepared and is presented as Figure 9. Consistent with agency guidance for baseline risk assessments, it was assumed that the Site was uncovered and that bare soils were available for contact. However, once the Site is developed it is anticipated that the current ground surface will be covered mostly with pavement with some grass. Children attending school at the Site in the future may be exposed to Site chemicals through incidental ingestion, dermal contact, and inhalation of particulates from chemicals in soil. In accordance with PEA guidance, exposures to chemicals at the Site were evaluated assuming residential exposures.

5.2 Factors Related to Soil Pathways

The site is generally flat and at the grade as neighboring properties. The shallow subsurface soils (surface to 10.5 feet bgs) at the site were observed to primarily consist of combinations of silts and sands.

Access to the site is restricted through perimeter chain link fencing and security gates. For the purpose of risk assessment and screening it was assumed the Site was uncovered and that bare soils were available for contact. However, once the Site is developed it is anticipated that the current ground surface will be covered mostly with pavement with some grass.

5.3 Factors Related to Water Pathways

According to well information published on the Los Angeles County Department of Public Works Webpage, no active groundwater production wells are located within one-mile of the Site. A non-production measurement well (Well Number 1460X) is located approximately one-mile southeast of the Site.

Based on hydrology data presented in the Phase I ESA (Partner, 2016a), groundwater is anticipated to be present in the vicinity of the Site at depths of greater than 100 feet bgs.

Based on the depth to groundwater, nature of the identified COPCs, distance to nearest groundwater well, and limited vertical extent of soil impact (See section 6), the potential for a release at the Site to impact groundwater is minimal and therefore not considered to represent a complete exposure pathway.

5.4 Factors Related to Air Pathways

Exposure pathways related to inhalation risks of COPCs are further discussed in Section 7.2.2 of this report. Release mechanisms considered during this assessment include fugitive dust inhalation from construction activities.

6 SAMPLING ACTIVITIES AND RESULTS

6.1 Summary of Activities

6.1.1 Health and Safety Plan Preparation

Alta Environmental prepared a site-specific HASP, which was implemented per Occupational Safety and Health Administration (OSHA) requirements (29 CFR 1910.120) to address the field investigation activities. An on-site health and safety officer was responsible for implementation of the HASP. A health and safety meeting was conducted at the beginning of each day of fieldwork. Field personnel were required to review and sign the HASP before beginning any fieldwork. A copy of the HASP is presented in Appendix B.

6.1.2 Field Work Notices

Approximately three days prior to beginning of the fieldwork, a notification of the PEA investigation was prepared in English and Spanish and distributed in accordance with DTSC guidelines for informing the community surrounding the Site. The proposed PEA field activities and contact information was provided on the notice. It was distributed to the onsite staff and students and any residences and businesses within line of sight of the work activities. In addition, copies of the notices were posted at conspicuous locations along the perimeter of the Site. Copies of the field notices are provided in Appendix C.

6.1.3 Site Reconnaissance and Utility Notification

Alta Environmental pre-marked all proposed drilling locations and notified Underground Service Alert (USA) at least 48 hours before commencing any drilling activities at the Site. USA notified companies and agencies that may have had underground utilities in the vicinity to mark their respective utilities on the ground with spray paint so that they could be avoided during drilling.

6.1.4 Utility Clearance

Prior to each of the soil sampling events, Alta Environmental retained a geophysical survey contractor to clear the pre-marked sampling locations at the Site. Several geophysical methods were employed, including high-sensitivity metal detection, shallow-focus terrain conductivity, ground-penetrating radar, and electromagnetic utility locating equipment. Detected subsurface features were marked on the ground with paint in a color code established by the American Public Works Association.

6.1.5 Shallow Soil Sampling

The shallow soil sampling program consisting of a total of 106 initial boring locations, was conducted between June and July 2016. Subsequent step-out sampling events (130 additional shallow borings) were conducted in between July and November of 2016 to delineate lead and arsenic impacted areas identified in the shallow soils.

Collected soil samples in these areas were analyzed for arsenic, lead, Title 22 Metals, petroleum hydrocarbons, VOCs, and PCBs as defined on the PEA Scoping Document (Partner, 2016b). The sampling methods and rationale were implemented in accordance with the PEA Scoping Document. The soil boring locations, sample depths, sample and analysis rationale are presented in Table 1 of the PEA Scoping Document (Appendix A). The soil matrix sample locations are provided on Figure 2 of this report.

The shallow soil sampling was conducted using hand auger sampling equipment. Samples were either collected using a core sampler lined with a two-inch diameter by six-inch long acetate sleeves that were subsequently sealed with polyurethane caps or were collected directly from the hand auger sampler and placed into laboratory supplied sample jars. After labelling and documentation, the soil matrix samples were stored in a chilled ice chest until they were transported to the laboratory. Hand auger and sampling equipment was decontaminated in the field prior to each sample collection.

If the primary sample at 0 – 0.5 foot below ground surface (bgs) was determined to have a COPC concentrations above the DTSC screening levels, step-down samples were analyzed at approximately 0.5- to 1-foot intervals until a depth interval was reached where the concentrations were less than screening levels or refusal was encountered. Lateral step-out sampling was conducted until the concentrations of COPCs were less than the screening level, the Site boundary was reached, a building foundation was reached, access was limited, or a subsurface utility obstruction was encountered.

The shallow soil sampling for lead and arsenic in soil was able to achieve lateral and vertical definition at the Site.

6.1.6 Soil Matrix Sampling

Based on the PEA Scoping Document (Partner, 2016b) the sampling and analysis program included the sampling of the soil matrix to assess potential impacts at eight locations (SS58-SS65) from on-site clarifiers

(3) and hydraulic lifts (2). Collected soil samples in these areas were analyzed for petroleum hydrocarbons, VOCs, and PCBs as defined on the PEA Scoping Document.

The soil matrix sampling was conducted using a direct-push drill rig with a core sampler lined with a two-inch diameter by four-foot long acetate sleeve. The acetate sleeves used to collect the samples were cut in six-inch long intervals and sealed with polyurethane caps. After labelling and documentation, the soil matrix samples were stored in a chilled ice chest until they were transported to the laboratory.

The soil matrix boring locations, sample depths, sample and analysis rationale are presented in Table 1 of the PEA Scoping Document (Appendix A). The soil matrix sample locations are provided on Figure 2 of this report.

6.2 Presentation of Data

All Enthalpy Analytical laboratory analytical reports and chain-of-custody documentation for samples submitted for fixed and mobile lab chemical analysis are presented in Appendix D. Analytical results are discussed in the following section.

6.3 Discussion of Results

6.3.1 Screening Levels

Where appropriate, the results are compared with regulatory limits for the chemicals and compounds identified in the applicable media.

- Concentrations of arsenic in shallow soils were compared to the DTSC's upper bound estimate (95th percentile) for background concentrations in Southern California (12 milligrams per kilogram [mg/kg]).

- Concentrations of lead in shallow soils were compared to the residential land use DTSC-Screening Level (DTSC-SL) published in the DTSC's Office of Human and Ecological Risk Office (HERO) Note 3.

- Concentrations of VOCs, OCPs, PCBs, and Title 22 Metals were compared to United States Environmental Protection Agency (USEPA) Region IX Regional Screening Levels (RSLs) for residential land use and DTSC-SLs, where applicable.

- Concentrations of petroleum hydrocarbons were compared to the Maximum Soil Screening Levels (MSSLs) established by the Los Angeles Regional Water Quality Control Board for soil where groundwater is present at depths of 20 to 150 feet below ground surface.

6.3.2 Shallow Soil – Lead and Arsenic

The results of the shallow soil lead and arsenic sampling for LBP residue and arsenates in soil are presented in Table 1. The primary and step-out boring locations are shown in Figures 2 through 8. The locations of where lead and arsenic concentrations were detected above the DTSC screening levels of 80 mg/kg and 12 mg/kg respectively are presented in Figures 2 through 8.

As discussed in Section 6.1.5., step-down and lateral step-out sampling was conducted until the detected lead and/or arsenic concentration were less than the DTSC screening levels of 80 mg/kg and 12 mg/kg respectively, the Site boundary was reached, a building foundation was reached, access was limited, or a subsurface utility obstruction was encountered. The shallow soil sampling for lead and arsenic in soil was able to achieve lateral and vertical definition for lead and arsenic at the Site.

6.3.3 STLC and TCLP Analysis – Lead and Arsenic

Twenty-seven (27) of the shallow samples with lead or arsenic above risk screening levels were analyzed to determine the Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) concentrations for waste characterization purposes.

The STLC results for lead impacted soil samples had concentrations of soluble lead ranging between 0.636 milligrams per liter (mg/L) to 83.7 mg/L. The concentrations of soluble lead in a majority of the lead impacted soil samples exceeded the California hazardous waste limit of 5 mg/L. These samples were also run for the federal soluble TCLP for classification of RCRA hazardous wastes. The TCLP results identified soluble lead concentrations ranging between 0.11 and 0.302 mg/l. All TCLP results were below the Federal RCRA hazardous waste classification concentration of 5 mg/L.

The STLC results for arsenic impacted soil samples had concentrations of soluble arsenic ranging between 0.16 milligrams per liter (mg/L) to 1.55 mg/L. The concentrations of soluble arsenic in the arsenic impacted soil samples did not exceed the California hazardous waste limit of 5 mg/L for soluble arsenic. These samples were also run for the federal soluble TCLP for classification of RCRA hazardous wastes. The TCLP results identified soluble arsenic concentrations ranging between 0.029 and 0.201 mg/l. All TCLP results were below the Federal RCRA hazardous waste classification concentration of 5 mg/L for soluble arsenic.

The soluble analysis (STLC and TCLP) results are presented in Table 2.

6.3.4 OCPs

The results of the OCP analysis of both composite and discreet soil samples collected during the shallow soil sampling program are presented in Table 3. No concentrations of OCPs in excess of their respective screening levels were identified.

6.3.5 PCBs

The results of the PCB analysis in soil matrix samples are presented in Table 4. Concentrations of PCB-1260 (0.0049J to 0.032J mg/kg) were detected in the samples collected at a depth of 0.5 feet bgs at five sample locations. However, these concentrations are below the residential screening level of 0.24 mg/kg. No other PCB concentrations were identified above laboratory detection limits.

6.3.6 Title 22 Metals

The results of the Title 22 metals analysis in soil matrix samples are presented in Table 5. While concentrations of 13 individual metals were detected above laboratory detection limits, no analytes were detected above their respective residential screening level, with the exception of the lead concentration (108 mg/kg) identified in the sample collected at location SS98 at a depth of 0.5 ft. bgs.

6.3.7 TPH and VOCs

The results of the TPH carbon chain and VOC analysis in soil matrix samples are presented in Tables 6 and 7, respectively.

Gasoline range petroleum hydrocarbons were not detected above laboratory detection limits in any of the analysed samples.

Concentrations of diesel range petroleum hydrocarbons (1.60 to 180 milligrams per kilogram [mg/kg]) were detected in 33 of the 46 analyzed samples. None of these concentrations exceeded the Maximum Soil Screening Level (MSSL) for diesel fuel of 1,000 mg/kg. Concentrations of oil range petroleum hydrocarbons (8.4 to 2,800 mg/kg) were detected in 34 of the 46 analyzed samples. None of these concentrations exceeded the MSSL for oil of 10,000 mg/kg.

Concentrations of several VOCs including: 1,2,4-trimethylbenzene, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), acetone, benzene, ethylbenzene, xylenes, methylene chloride, n-butylbenzene, tetrachloroethylene, and toluene were detected above laboratory detection limits. However, none of the detected analyte concentrations exceeded their respective Regional Screening Level (RSL) or Department of Toxic Substance Control – Modified Screening Level (DTSC-SL).

6.3.8 Areas of Impacted Soils

Based on the results of the shallow soil sampling, the Site has been determined to be impacted by lead and arsenic above soil screening levels. Based on the analytical results, the vertical extent of the impact is generally limited to the upper 1 foot of soils, with the exception of five areas (SS101, SS77, SS76, SS27C, and SS2) where the vertical extent of impact extends to a depth of approximately 2-feet bgs.

Additional characterization determined that some of the lead-impacted soils would be classified as a Non-RCRA (California-regulated) hazardous waste for disposal. The areas of lead and/or arsenic impacted soils are presented in Figure 3 through 8. The estimated volumes of impacted soils are also summarized in Table 8.

Alta calculated the 95% Upper Confidence Level (UCL) for arsenic and lead in soils for both pre- and post-excavation scenarios. A summary of these results are presented as Table 9. Assuming that all soils containing lead or arsenic are successfully excavated and removed from the Site, the 95% UCL for both constituents will be well below their respective residential screening levels.

6.4 Quality Assurance / Quality Control (QA/QC) Measures

QA/QC measures employed during this assessment are further discussed below.

In-field quality control procedures included the use of clean disposable latex/nitrile gloves when collecting and handling each sample, decontamination of all non-dedicated drilling and sampling equipment between each sample being collected to prevent cross-contamination (the verification of which is served by equipment blanks), and the immediate logging, labeling, and appropriate preservation storage of each sample collected. Field quality control sample requirements included the collection of field duplicate samples and equipment blanks.

To evaluate the data reported from the laboratory, several steps were taken to verify the quality of the data and consistency between field and laboratory activities. Chain-of-custody (COC) forms were checked

before final delivery of the samples to the laboratory. Upon receipt of the laboratory reports, the chain-of-custody documentation was checked against the analyses conducted to ensure that all requested samples had been analyzed, and to insure that laboratory quality assurance was performed in accordance with the requirements of each specific EPA testing method. Results reported by the laboratory were compiled in tabular form, and the data input to the tables was then verified. The data were reviewed to confirm that they had met the data quality objectives (DQOs) for precision, accuracy, representativeness, completeness, and comparability.

6.5 Field Variances

The shallow soil sampling and analysis program conducted for the PEA for the Thomas Jefferson High School followed the PEA Scoping Document (Partner, 2016b), except for the following field variances, which were performed in consultation with the LAUSD-OEHS:

- Shallow soil sample locations SS33 and SS34 were not sampled due their location within an active classroom with no evidence of hazardous material or petroleum product usage observed.
- Shallow soil sample locations SS58 and SS59 were advanced to a total depth of approximately 10.5 feet bgs, in order to sample below the bottom of the in-ground hydraulic lifts.
- Shallow soil sample SS70B achieved refusal at a depth of approximately one-foot bgs. An alternative location was not sampled due to proximity to subsurface utility lines.

6.6 Investigation Derived Waste

Five 55-gallon drums of soil cuttings and one 55-gallon drum of equipment decontamination water was generated during field sampling activities. One representative soil sample was collected from each drum and composited for profile analysis (Soil drum). One water sample was also collected from the decontamination drum (Decon drum). The composited sample (Soil drum) and water sample (Decon drum) were analyzed for VOCs by EPA Method 8260B, total petroleum hydrocarbons as carbon chain (TPH-cc) by EPA Method 8015M, and Title 22 Metals by EPA Method 6010B. The laboratory analytical report and chain-of-custody documentation is provided in Appendix E along with copies of the waste manifest forms.

7 HUMAN HEALTH SCREENING EVALUATION

An HHSE was completed based on the results of the samples collected and analyzed during this PEA. The approach used in this screening evaluation was based on U.S. EPA and DTSC guidance for conducting human health risk assessments. This evaluation has incorporated conservative (health-protective) assumptions in evaluating potential exposures, so that potential health impacts from COPCs at the Site (i.e., chemicals that were identified at levels above published screening levels) could be evaluated and not underestimated. Hypothetical residential receptors evaluated here were assumed to be exposed to COPCs identified in soil through the ingestion, dermal and inhalation pathways.

For the purpose of this screening evaluation and in accordance with DTSC's Preliminary Endangerment Assessment (PEA) Guidance Manual (January 1994, Revised 2015), the potential risks are calculated based on a residential land-use scenario, regardless of the current and future use and zoning for the Site. To perform the HHSE, default soil parameters were used for this PEA.

7.1 Exposure Concentrations and Chemicals

7.1.1 COPCs

The only target analytes found to exceed applicable soil screening levels during this assessment included lead and arsenic. Therefore, only lead and arsenic in soil were evaluated. For the purpose of this screening risk evaluation, hypothetical adult and child residents were assumed to be exposed to COPCs identified in soil by direct dermal contact, incidental ingestion, and inhalation of airborne particulate via inhalation.

7.2 Exposure Pathways and Media of Concern

7.2.1 Soil Exposure Pathways

Chemicals of potential health concern detected in the soil at the Site above risk screening levels include arsenic and lead. Therefore the potential exists for humans to contact these chemicals through direct dermal contact with the soil and incidental soil ingestion. Analytical data for arsenic and lead in subsurface soil are summarized in Table 1. Air Exposure Pathways

7.2.1.1 Fugitive Dust Inhalation

COPCs were detected in soil at the Site (Table 1). Exposure to these chemicals may occur through chemicals being sorbed to airborne particulates.

Exposure to these chemicals may occur via inhalation of fugitive dust. Inhalation exposure to non-volatile compounds is typically minor in fugitive dust when compared to direct ingestion exposure. Nevertheless, a relationship must be estimated between the chemical concentration in soil and the concentration in air (secondary media) due to fugitive dust emissions from surface soil.

7.3 Exposure Concentrations and Chemicals

For HHSE, the maximum detected concentrations of each COPC were selected. Table 10 details the maximum detected concentration of each COPC along with the sample location.

7.4 Risk Screening Summary

7.4.1 Cancer Risks

Cancer risks are expressed as the upper-bound, increased likelihood of an individual developing cancer as a result of exposure to a particular chemical. For example, a cancer risk of 1E-04 refers to an upper-bound increased chance of one in ten thousand of developing cancer over a lifetime (0.01 percent risk). The potential increase in cancer risk from exposure to the chemicals detected in soil at the Site is in addition to a background risk of Americans developing cancer. The chemical-specific exposure estimates (i.e., the lifetime average daily dose or LADD) are multiplied by the chemical- and route-specific slope factor to arrive at a unitless probability (e.g., 1.0E-04) of an individual developing cancer.

The excess cancer risks are then compared to the DTSC acceptable target risk level of 1E-06.

7.4.2 Noncarcinogenic Effects

For the purpose of assessing risk associated with noncarcinogenic effects, the US EPA has adopted a science policy position that protective mechanisms such as repair, detoxification, and compensation must be overcome before an adverse health effect is manifested. Therefore, a range of exposures exists from zero to some finite value (a threshold) that can be tolerated by the organism without appreciable risk of adverse effects occurring.

Noncarcinogenic effects were evaluated using reference doses (RfDs) developed by the US EPA and the DTSC. The RfD is a health-based criterion based on the assumption that thresholds exist for noncarcinogenic toxic effects. In general, the RfD is an estimate (with uncertainty) of a daily exposure to the human population that is likely to be without appreciable risk of chronic effects during a lifetime of exposure. RfDs are compared to the total chemical dose estimated for each receptor to obtain a Hazard Quotient for each receptor and exposure pathway. The hazard quotients are then compared to an acceptable hazard level. Hazard quotients less than the benchmark hazard level of 1 indicate that no adverse health effects are predicted from exposure to COPCs at the Site.

7.4.3 Results of the Screening Risk Evaluation

7.4.3.1 Carcinogenic Risk

Table 14 summarizes the cumulative carcinogenic risk posed by the presence of the identified COPC's in soil at the Site. The cumulative carcinogenic risk based on the maximum concentrations of COPC's identified at the site is 1.92E-03. This value exceeds the DTSC's target risk value of 1E-06.

Alta also calculated the cumulative carcinogenic risk using the calculated 95% Upper Confidence Level (UCL) concentration for each COPC. The cumulative carcinogenic risk based on the 95% UCL concentrations of COPC's identified at the site is 5.96E-04. This value exceeds the DTSC's target risk value of 1E-06.

7.4.3.2 Noncarcinogenic Risk

Table 14 also summarizes the cumulative non-carcinogenic risk posed by the presence of the identified COPC's in soil at the Site. The cumulative non-carcinogenic risk (Hazard Quotient) based on the maximum concentrations of COPC's identified at the site is 6.34E+01, which is above the benchmark level for noncancer effects (1.0).

Alta also calculated the cumulative non-carcinogenic risk using the calculated 95% Upper Confidence Level (UCL) concentration for each COPC. The cumulative non-carcinogenic risk based on the 95% UCL concentrations of COPC's identified at the site is 1.74E+01, which is above the benchmark level for noncancer effects (1.0).

8 ECOLOGICAL SCREENING ASSESSMENT

There are no sensitive, protected, or threatened biological receptors known to be present at the Site, nor does the Site contain natural wildlife habitat. The Site is situated in an older, largely residential neighborhood north of downtown Los Angeles, where many homes date to the early 1900s. There are no significant ecological areas (i.e. coastal or fresh-water wetlands, wildlife areas, preserves, reserves,

sanctuaries, State or Federal parks, natural areas, conservation areas, or other protected places) within 1 mile of Site.

After the completion of construction, the entire Site would be developed with structures and pavement. Furthermore, the local topography would not result in run-off from the Site towards ecologically sensitive areas. The chemical constituents present in Site soils do not pose a present or future threat to the ecosystem.

9 PUBLIC PARTICIPATION

Following is a brief overview of the Public Participation activities associated with the PEA activity conducted for the Thomas Jefferson High School Modernization Project.

- A one-page public notice was prepared in accordance with the established DTSC guidelines for informing the community at and surrounding the Site of the PEA field investigation. Prior to implementation of the PEA field investigation, the public notice was distributed to residents and businesses within the line-of-sight of the Site. The public notices provided written notification in English and Spanish. Copies of the public notices are included in Appendix C. The public notice provided contact information for anyone in the community who may have questions or concerns regarding the project. No additional public participation activities were identified for the project with the exception of the Public Comment period for the Draft PEA Report.

10 CONCLUSIONS AND RECOMMENDATIONS

10.1 Summary and Conclusions

Based on the soil sampling conducted during the PEA, the following conclusions are made:

- Soil samples were collected throughout the Site at various depths and analyzed for TPH, VOCs, OCPs, PCBs, arsenic, lead, and Title 22 metals. While several analytes were found at levels in excess of laboratory detection limits, only lead and arsenic were identified in soil samples in excess of residential screening levels.

- A Human Health Screening Evaluation was conducted to estimate the cumulative carcinogenic risk and hazard index posed to Site occupants by contact with lead, arsenic, or chlordane impacted soils. The cumulative carcinogenic risk based on the maximum concentrations of COPC's identified at the site is 1.92E-03. This value exceeds the DTSC's target risk value of 1E-06. The estimated hazard index of 6.34E+01 is also above the benchmark level for noncancer effects (1.0).

- Thirty-one areas with shallow soil impacted by lead and/or arsenic in excess of residential screening levels were identified throughout the campus. The shallow soil sampling for lead and arsenic in soil was able to achieve lateral and vertical definition of areas of impact at the Site. The total estimated amount of impacted soil at the Site is estimated to be approximately 229.04 cubic yards.

10.2 Recommendations

Based on the findings and conclusions of this PEA investigation, the following recommendation is made:

- Develop a Removal Action Workplan (RAW) for the Site. The RAW will address shallow soils impacted with lead, arsenic, and/or OCPs with a total volume of 229.04 cubic yards.

11 SIGNATURES AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL(S), INCLUDING STATEMENTS REQUIRED BY AAI

This *Preliminary Environmental Assessment Equivalent Report* for the Thomas Jefferson High School Comprehensive Modernization site located on the southern and eastern portions of the existing Thomas Jefferson High School campus was prepared by Alta Environmental on behalf of the Los Angeles Unified School District in a manner consistent with the level of care and skill ordinarily exercised by professional engineers, geologists, and environmental scientists. This report was prepared under the technical direction of the undersigned.

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Senior Project Manager/Senior Engineer III
Professional Engineer-Civil (C 76976)

Lynleigh Love
Senior Project Manager/Senior Geologist III
Professional Geologist 7870

12 REFERENCES

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2. Department of Toxic Substances Control (DTSC), 2006, *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers;* June 9, 2006.

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12. United States Environmental Protection Agency (USEPA). Regional Screening Level (RSL) Summary Table. May 2016.

Tables

TABLE 1
Summary of Shallow Soil Sample Lead and Arsenic Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Sample ID	Sample Date	Lead - EPA Method 6010B	Arsenic - EPA Method 6020
		mg/kg	
	MDL:	0.32	0.2-0.4
	RDL:	0.5	3.0-6.0
	Site Screening Levels:	80*	12**
SS1-0.5	6/24/2016	118	2.35J
SS1-1.5	8/2/2016	2.74	--
SS1-2.5	8/2/2016	1.19	--
SS1A-0.5	8/4/2016	169	--
SS1A-1.5	8/4/2016	62.0	--
SS1C-0.5	8/4/2016	70.0	--
SS1C-0.5DUP	8/4/2016	12.1	--
SS1C-1.5	8/4/2016	1.06	
SS1D-0.5	8/11/2016	15.1	--
SS1D-0.5DUP	8/11/2016	23.6	--
SS2-0.5	6/24/2016	194	3.38
SS2-1.5	8/2/2016	38.6	--
SS2-2.5	8/2/2016	11.0	--
SS2A-0.5	8/4/2016	174	--
SS2A-1.5	8/4/2016	87.4	--
SS2A-2.5	8/4/2016	56.6	--
SS2B-0.5	8/4/2016	28.4	--
SS2C-0.5	8/4/2016	27.8	--
SS2D-0.5	8/11/2016	117	--
SS2D-1.5	8/11/2016	12.9	--
SS3-0.5	6/22/2016	77.9	4.17
SS3-0.5DUP	6/22/2016	35.1	3.28
SS4-0.5	6/22/2016	13.9	1.247 J
SS5-0.5	--	--	--
SS6-0.5	--	--	--
SS7-0.5	--	--	--
SS8-0.5	6/23/2016	45.0	2.16 J
SS9-0.5	8/2/2016	51.4	1.773J*
SS10-0.5	6/23/2016	52.7	1.894 J
SS11-0.5	6/23/2016	7.84	1.513 J
SS12-0.5	6/23/2016	32.9	4.37
SS12-0.5DUP	6/23/2016	15.0	3.42
SS13-0.5	6/23/2016	14.9	2.02 J
SS14-0.5	6/23/2016	29.8	10.3
SS15-0.5	6/23/2016	36.0	3.57
SS16-0.5	6/23/2016	20.1	3.15
SS17-0.5	6/23/2016	29.2	4.53
SS18-0.5	6/23/2016	6.08	1.257 J
SS19-0.5	6/23/2016	37.0	2.78 J
SS19-0.5DUP	6/23/2016	22.9	1.334 J
SS20-0.5	6/23/2016	39.6	6.40
SS21-0.5	6/23/2016	146	5.60
SS21-1.5	8/2/2016	16.6	--
SS21-2.5	8/2/2016	20.8	--
SS21A-0.5	8/4/2016	14.7	--
SS21B-0.5	8/4/2016	17.0	--
SS21B-0.5DUP	8/4/2016	27.4	--
SS21C-0.5	8/4/2016	131	--
SS21C-1.5	8/4/2016	18.9	--
SS22-0.5	6/23/2016	160	5.13
SS22-1.5	8/2/2016	35.8	--
SS22-2.5	8/2/2016	23.9	--
SS22A-0.5	8/4/2016	68.8	--
SS22B-0.5	8/4/2016	47.1	--
SS22C-0.5	8/4/2016	59.7	--
SS23-0.5	6/23/2016	10.2	1.672 J
SS24-0.5	6/22/2016	40.3	3.65
SS25-0.5	6/24/2016	54.6	4.71
SS26-0.5	6/24/2016	30.2	5.79
SS27-0.5	6/24/2016	117	14.5
SS27-1.5	8/2/2016	39.0	11.6*
SS27-2.5	8/2/2016	36.5	10.3*
SS27A-0.5	8/5/2016	87.5	6.35
SS27A-0.5DUP	8/5/2016	64.6	4.32
SS27A-1.5	8/5/2016	4.99	--
SS27B-0.5	8/5/2016	107	4.55
SS27B-1.5	8/5/2016	2.47	--
SS27C-0.5	8/5/2016	133	13.6
SS27C-1.5	8/5/2016	62.4	17.1
SS27C-2.5	8/5/2016	--	11.5
SS27D-0.5	8/11/2016	65.2	--

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1319 E. 41st Street, Los Angeles, CA

Sample ID	Sample Date	Lead - EPA Method 6010B	Arsenic - EPA Method 6020
		mg/kg	
	MDL:	0.32	0.2-0.4
	RDL:	0.5	3.0-6.0
	Site Screening Levels:	80*	12**
SS27E-0.5	8/11/2016	50.3	--
SS27F-0.5	8/11/2016	63.8	3.79
SS27F-0.5DUP	8/11/2016	31.7	3.99
SS27G-0.5	11/21/2016	268	10.1
SS27G-0.5DUP	11/21/2016	33.2	9.34
SS27G-1.5	11/21/2016	96.6	--
SS27G-2.5	11/21/2016	13.2	--
SS27I-0.5	11/21/2016	58.5	--
SS27L-0.5	11/21/2016	24.4	--
SS28-0.5	6/24/2016	29.9	8.54
SS29-0.5	6/24/2016	26.0	2.94J
SS30-0.5	6/24/2016	26.6	1.640J
SS31-0.5	6/24/2016	29.4	9.53
SS32-0.5	6/22/2016	158	4.33
SS32-1.5	8/2/2016	45.2	--
SS32-2.5	8/2/2016	1.91	--
SS32A-0.5	8/4/2016	201	--
SS32A-1.5	8/4/2016	22.1	--
SS32C-0.5	8/4/2016	73.0	--
SS32D-0.5	8/11/2016	63.4	--
SS33-0.5	Cancelled		
SS34-0.5	Cancelled		
SS35-0.5	6/22/2016	51.4	4.20
SS36-0.5	6/22/2016	52.3	2.45 J
SS37-0.5	6/22/2016	22.7	3.22
SS37-0.5DUP	6/22/2016	53.9	3.49
SS38-0.5	6/22/2016	107	2.40 J
SS38-1.5	8/2/2016	34.2	--
SS38-2.5	8/2/2016	1.45	--
SS38A-0.5	8/4/2016	26.4	--
SS38A-0.5DUP	8/4/2016	28.8	--
SS38B-0.5	8/4/2016	34.4	--
SS38C-0.5	8/4/2016	71.7	--
SS39-0.5	6/22/2016	30.5	3.22
SS40-0.5	6/22/2016	23.6	3.62
SS41-0.5	6/22/2016	27.6	3.18
SS42-0.5	6/22/2016	44.2	3.78
SS43-0.5	6/22/2016	20.4	2.47 J
SS43-0.5DUP	6/22/2016	85.3	9.98
SS43-1.5	8/2/2016	63.3	--
SS43-2.5	8/2/2016	46.5	--
SS43A-0.5	8/5/2016	30.0	--
SS43A-0.5DUP	8/5/2016	14.4	--
SS43B-0.5	8/5/2016	63.7	--
SS43C-0.5	8/5/2016	21.6	--
SS44-0.5	6/22/2016	79.1	3.22
SS45-0.5	6/22/2016	18.3	2.34 J
SS46-0.5	6/22/2016	19.0	3.79
SS47-0.5	6/22/2016	310	2.50 J
SS47-1.5	8/2/2016	45.6	--
SS47-2.5	8/2/2016	57.0	--
SS47A-0.5	8/5/2016	55.5	--
SS47B-0.5	8/5/2016	30.7	--
SS47C-0.5	8/5/2016	62.7	--
SS48-0.5	6/22/2016	24.7	1.621 J
SS49-0.5	6/22/2016	74.0	2.12 J
SS50-0.5	6/22/2016	25.2	3.09
SS51-0.5	6/23/2016	71.9	2.31 J
SS52-0.5	6/23/2016	32.7	1.877 J
SS53-0.5	8/2/2016	109	2.23J*
SS53-1.5	8/2/2016	42.3	--
SS53A-0.5	8/5/2016	49.7	--
SS53B-0.5	8/5/2016	56.2	--
SS53C-0.5	8/5/2016	48.0	--
SS54-0.5	6/23/2016	84.7	2.72 J
SS54-1.5	8/2/2016	3.18	--
SS54-2.5	8/2/2016	1.50	--
SS54A-0.5	8/5/2016	2.42	--
SS54B-0.5	8/5/2016	53.0	--

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Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Sample ID	Sample Date	Lead - EPA Method 6010B	Arsenic - EPA Method 6020
		mg/kg	
	MDL:	0.32	0.2-0.4
	RDL:	0.5	3.0-6.0
	Site Screening Levels:	80*	12**
SS54B-0.5DUP	8/5/2016	64.2	--
SS54C-0.5	8/5/2016	63.6	--
SS55-0.5	6/23/2016	38.7	20.5
SS55-1.5	8/2/2016	--	2.06J*
SS55-2.5	8/2/2016	--	1.751J*
SS55A-0.5	8/4/2016	--	2.28J
SS55B-0.5	8/4/2016	--	2.62J
SS55C-0.5	8/4/2016	--	12.8
SS55C-1.5	8/4/2016	--	2.23J
SS55D-0.5	8/11/2016	--	2.39J
SS56-0.5	6/23/2016	11.4	1.702 J
SS57-0.5	--	--	--
SS58-0.5	--	--	--
SS59-0.5	--	--	--
SS60-0.5	--	--	--
SS61-0.5	--	--	--
SS62-0.5	--	--	--
SS63-0.5	--	--	--
SS64-0.5	--	--	--
SS65-0.5	--	--	--
SS66-0.5	6/24/2016	11.9	2.17J
SS67-0.5	6/23/2016	44.3	2.55 J
SS68-0.5	6/23/2016	124	5.18
SS68-1.5	8/2/2016	5.43	--
SS68-2.5	8/2/2016	1.54	--
SS68A-1.5	8/4/2016	5.41	--
SS68B-0.5	8/4/2016	81.5	--
SS68B-1.5	8/4/2016	4.9	
SS68C-0.5	8/4/2016	125	--
SS68C-1.5	8/4/2016	7.55	
SS68D-0.5	8/11/2016	241	--
SS68D-0.5DUP	8/11/2016	31.8	--
SS68D-1.5	8/11/2016	1.59	--
SS68E-0.5	11/21/2016	58.9	--
SS68E-0.5DUP	11/21/2016	53.9	--
SS68G-0.5	11/21/2016	166	--
SS68G-1.5	11/21/2016	4.53	--
SS68H-0.5	11/21/2016	36.3	--
SS69-0.5	6/23/2016	31.2	1.460 J
SS70-0.5	6/23/2016	122	5.28
SS70-1.5	8/2/2016	1.81	--
SS70-2.5	8/2/2016	3.09	--
SS70A-0.5	8/5/2016	75.4	--
SS70B-0.5	8/5/2016	134	--
SS70C-0.5	8/5/2016	64.2	--
SS70F-0.5	11/21/2016	109	--
SS70F-1.5	11/21/2016	13.8	--
SS70G-0.5	11/21/2016	132	--
SS70G-1.5	11/21/2016	18.0	--
SS70H-0.5	11/21/2016	78.7	--
SS70H-0.5DUP	11/21/2016	65.2	--
SS71-0.5	6/23/2016	62.2	1.725 J
SS72-0.5	6/23/2016	6.29	1.125 J
SS73-0.5	6/23/2016	87.9	5.98
SS73-1.5	8/2/2016	35.0	--
SS73-2.5	8/2/2016	28.9	--
SS73A-0.5	8/5/2016	40.7	--
SS73B-0.5	8/5/2016	22.7	--
SS73B-0.5DUP	8/5/2016	27.0	--
SS73C-0.5	8/5/2016	121	--
SS73C-1.5	8/5/2016	4.29	--
SS74-0.5	6/23/2016	172	4.68
SS74-1.5	8/2/2016	1.83	--
SS74-2.5	8/2/2016	1.77	--
SS74A-0.5	8/5/2016	247	--
SS74A-1.5	8/5/2016	17.9	--
SS74B-0.5	8/5/2016	75.0	--
SS74C-0.5	8/5/2016	157	--
SS74C-1.5	8/5/2016	47.7	--
SS74D-0.5	11/21/2016	43.1	--
SS75-0.5	6/23/2016	30.3	2.28 J

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1319 E. 41st Street, Los Angeles, CA

Sample ID	Sample Date	Lead - EPA Method 6010B	Arsenic - EPA Method 6020
		mg/kg	
	MDL:	0.32	0.2-0.4
	RDL:	0.5	3.0-6.0
	Site Screening Levels:	80*	12**
SS76-0.5	6/23/2016	86.2	3.83
SS76-1.5	8/2/2016	13.4	--
SS76-2.5	8/2/2016	1.77	--
SS76A-0.5	8/5/2016	106	--
SS76A-1.5	8/5/2016	2.52	--
SS76B-0.5	8/5/2016	29.2	--
SS76C-0.5	8/5/2016	273	--
SS76C-1.5	8/5/2016	570	--
SS76C-2.5	8/5/2016	1.39	--
SS76D-0.5	11/21/2016	54.2	--
SS76D-0.5DUP	11/21/2016	50.9	--
SS77-0.5	6/23/2016	187	3.46
SS77-0.5DUP	6/23/2016	200	3.02
SS77-1.5	8/2/2016	1.80	--
SS77-2.5	8/2/2016	18.1	--
SS77A-0.5	8/5/2016	468	--
SS77A-1.5	8/5/2016	84.1	--
SS77A-2.5	8/5/2016	1.50	
SS77B-0.5	8/5/2016	415	--
SS77B-1.5	8/5/2016	26.9	--
SS77C-0.5	8/5/2016	82.6	--
SS77C-1.5	8/5/2016	19.1	--
SS77D-0.5	11/21/2016	848	--
SS77D-0.5DUP	11/21/2016	242	--
SS77D-1.5	11/21/2016	1.38	--
SS77G-0.5	11/21/2016	165	--
SS77G-1.5	11/21/2016	9.15	--
SS78-0.5	6/23/2016	2.12	1.156 J
SS78-0.5DUP	6/23/2016	62.2	1.928 J
SS79-0.5	6/23/2016	64.5	2.17 J
SS79-0.5DUP	6/23/2016	86.0	2.52 J
SS79-1.5	8/2/2016	63.8	--
SS79-2.5	8/2/2016	2.27	--
SS79A-0.5	8/5/2016	110	--
SS79A-1.5	8/5/2016	21.2	--
SS79B-0.5	8/5/2016	60.5	--
SS79C-0.5	8/5/2016	32.9	--
SS79D-0.5	8/11/2016	57.1	--
SS79D-0.5DUP	8/11/2016	121	--
SS79D-1.5	8/11/2016	3.62	--
SS79E-0.5	8/11/2016	49.8	--
SS79F-0.5	8/11/2016	88.2	--
SS79F-1.5	8/11/2016	75.2	--
SS79G-0.5	11/21/2016	101	--
SS79G-1.5	11/21/2016	9.24	--
SS79H-0.5	11/21/2016	192	--
SS79H-1.5	11/21/2016	22.6	
SS80-0.5	6/23/2016	129	5.09
SS80-0.5DUP	6/23/2016	40.6	3.60
SS80-1.5	8/2/2016	18.7	--
SS80-2.5	8/2/2016	1.97	--
SS80A-0.5	8/5/2016	57.0	--
SS80B-0.5	8/5/2016	62.2	--
SS80C-0.5	8/5/2016	131	--
SS80C-0.5DUP	8/5/2016	146	--
SS80C-1.5	8/5/2016	43.4	--
SS80D-0.5	11/21/2016	32.3	--
SS80D-0.5DUP	11/21/2016	127	--
SS80D-1.5	11/21/2016	3.20	--
SS80E-0.5	11/21/2016	19.6	--
SS81-0.5	6/24/2016	32.0	8.74
SS82-0.5	6/24/2016	88.7	2.66J
SS82-1.5	8/2/2016	1.59	--
SS82-2.5	8/2/2016	0.88	--
SS82A-0.5	8/5/2016	32.2	--
SS82B-0.5	8/5/2016	39.4	--
SS82C-0.5	8/5/2016	54.5	--
SS83-0.5	6/24/2016	47.2	4.28
SS84-0.5	6/24/2016	20.1	3.22
SS85-0.5	6/23/2016	36.8	4.82
SS86-0.5	6/23/2016	42.1	1.913 J

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1319 E. 41st Street, Los Angeles, CA

Sample ID	Sample Date	Lead - EPA Method 6010B	Arsenic - EPA Method 6020
		mg/kg	
	MDL:	0.32	0.2-0.4
	RDL:	0.5	3.0-6.0
	Site Screening Levels:	80*	12**
SS87-0.5	6/23/2016	131	3.61
SS87-1.5	8/2/2016	4.28	--
SS87-2.5	8/2/2016	0.55	--
SS87A-0.5	8/5/2016	99.1	--
SS87A-1.5	8/5/2016	6.10	--
SS87B-0.5	8/5/2016	47.9	--
SS87C-0.5	8/5/2016	131	--
SS87C-1.5	8/5/2016	5.40	--
SS87D-0.5	8/11/2016	108	--
SS87D-0.5DUP	8/11/2016	40.2	--
SS87D-1.5	8/11/2016	1.20	--
SS87E-0.5	8/11/2016	57.0	--
SS87E-0.5	11/21/2016	97.1	--
SS87E-0.5DUP	11/21/2016	85.4	--
SS87E-1.5	11/21/2016	10.4	--
SS87F-0.5	11/21/2016	21.9	--
SS87G-0.5	11/21/2016	99.2	--
SS87G-1.5	11/21/2016	18.4	--
SS87H-0.5	11/21/2016	68.0	--
SS88-0.5	6/23/2016	88.6	13.2
SS88-1.5	8/2/2016	5.12	2.80J*
SS88-2.5	8/2/2016	2.70	1.955J*
SS88A-0.5	8/5/2016	5.81	4.85
SS88B-0.5	8/5/2016	55.4	5.92
SS88B-0.5DUP	8/5/2016	59.6	8.76
SS88C-0.5	8/5/2016	154	14.4
SS88C-1.5	8/5/2016	56.3	6.20
SS89-0.5	6/23/2016	16.6	6.08
SS90-0.5	6/23/2016	33.6	1.277 J
SS91-0.5	6/22/2016	26.3	4.28
SS92-0.5	6/23/2016	80.9	5.57
SS92-1.5	8/2/2016	21.5	--
SS92-2.5	8/2/2016	1.61	--
SS92A-0.5	8/4/2016	31.1	--
SS92B-0.5	8/4/2016	21.7	--
SS92B-0.5UDUP	8/4/2016	23.4	--
SS92C-0.5	8/4/2016	55.7	--
SS93-0.5	6/24/2016	190	3.23
SS93-1.5	8/2/2016	26.0	--
SS93-2.5	8/2/2016	30.8	--
SS93A-0.5	8/4/2016	204	--
SS93A-1.5	8/4/2016	13.6	--
SS93B-0.5	8/4/2016	113	--
SS93B-1.5	8/4/206	20.6	--
SS93C-0.5	8/4/2016	75.0	--
SS93D-0.5	8/11/2016	180	--
SS93D-1.5	8/11/2016	27.6	
SS93E-0.5	8/11/2016	74.6	--
SS93F-0.5	8/11/2016	22.3	--
SS93G-0.5	11/21/2016	60.8	--
SS93G-0.5DUP	11/21/2016	25.3	--
SS94-0.5	6/24/2016	24.8	10.7
SS95-0.5	6/24/2016	112	5.24
SS95-1.5	8/2/2016	9.03	--
SS95-2.5	8/2/2016	3.16	--
SS95A-0.5	8/4/2016	132	--
SS95A-1.5	8/4/2016	48.3	--
SS95B-0.5	8/4/2016	58.4	6.53 J
SS95B-1.5	8/4/2016	--	4.31J
SS95C-0.5	8/4/2016	59.5	--
SS95D-0.5	8/11/2016	31.8	--
SS96-0.5	6/24/2016	154	7.34
SS96-1.5	8/2/2016	2.80	--
SS96-2.5	8/2/2016	1.34	--
SS96A-0.5	8/4/2016	49.9	--
SS96B-0.5	8/4/2016	46.1	--
SS96C-0.5	8/4/2016	602	--
SS96C-1.5	8/4/2016	2.08	--
SS96D-0.5	11/21/2016	318	--
SS96D-1.5	11/21/2016	0.39J	--
SS96E-0.5	11/21/2016	248	--
SS96E-1.5	11/21/2016	14.3	--

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TABLE 1
Summary of Shallow Soil Sample Lead and Arsenic Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Sample ID	Sample Date	Lead - EPA Method 6010B	Arsenic - EPA Method 6020
		mg/kg	
	MDL:	0.32	0.2-0.4
	RDL:	0.5	3.0-6.0
	Site Screening Levels:	80*	12**
SS97-0.5	6/22/2016	18.2	3.58
SS98-0.5	6/23/2016	108	3.45
SS98-0.5DUP	6/23/2016	3.79	4.42
SS98-1.5	8/2/2016	11.6	--
SS98-2.5	8/2/2016	0.93	--
SS98B-0.5	8/4/2016	27.8	--
SS98C-0.5	8/4/2016	24.8	--
SS99-0.5	6/23/2016	40.6	3.69
SS100-0.5	6/22/2016	19.0	3.44
SS101-0.5	6/24/2016	104	21.1
SS101-1.5	8/2/2016	1.16	11.2*
SS101-2.5	8/2/2016	1.33	3.78*
SS101A-0.5	8/4/2016	27.5	10.6
SS101B-0.5	8/4/2016	5.99	17.6
SS101B-1.5	8/4/2016	--	19.4
SS101B-2.5	8/4/2016	--	3.22
SS101C-0.5	8/4/2016	0.71	3.30J
SS102-0.5	6/24/2016	92.3	7.23
SS102-1.5	8/2/2016	2.00	--
SS102-2.5	8/2/2016	40.2	--
SS102A-0.5	8/4/2016	74.8	--
SS102B-0.5	8/4/2016	3.04	--
SS102C-0.5	8/4/2016	54.6	--
SS102C-0.5DUP	8/4/2016	22.1	--
SS103-0.5	6/24/2016	146	5.47
SS103-1.5	8/2/2016	47.0	--
SS103-2.5	8/2/2016	11.8	--
SS103A-0.5	8/4/2016	36.9	--
SS103B-0.5	8/4/2016	116	--
SS103B-1.5	8/4/2016	2.32	--
SS103C-0.5	8/4/2016	144	--
SS103C-1.5	8/4/20116	35.7	--
SS103D-0.5	8/11/2016	112	--
SS103D-1.5	8/11/2016	1.66	--
SS103E-0.5	8/11/2016	56.2	--
SS103E-0.5DUP	8/11/2016	84.3	--
SS103E-1.5	8/11/2016	1.61	--
SS103F-0.5	8/11/2016	63.6	--
SS103G-0.5	11/21/2016	145	--
SS103G-1.5	11/21/2016	1.23	--
SS103H-0.5	11/21/2016	150	--
SS103H-1.5	11/21/2016	14.7	
SS103I-0.5	11/21/2016	92.0	--
SS103I-1.5	11/21/2016	13.1	--
SS103J-0.5	11/21/2016	141	--
SS103I-1.5	11/21/2016	27.2	--
SS103K-0.5	11/21/2016	68.0	--
SS103K-0.5DUP	11/21/2016	81.6	--
SS103K-1.5	11/21/2016	40.3	--
SS103L-0.5	11/21/2016	107	--
SS103L-1.5	11/21/2016	27.7	--
SS104-0.5	6/24/2016	35.9	4.63
SS105-0.5	6/24/2016	2.88	0.826J
SS106-0.5	6/24/2016	44.8	1.737J

NOTES:
-- = Not Analyzed
mg/kg = milligrams per kilogram
DUP = Duplicate
MDL = Method Detection Limit
RDL = Reporting Detection Limit
ND = Indicated constituent not detected at or above the MDL
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL
80* = Department of Toxic Substances (DTSC) HERO Note 3 Modified Screening Levels for Residential Soil (updated June 2016)
12** = Southern California Regional Background Concentration for Residential Soil (DTSC)

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TABLE 2
Summary of Shallow Soil Matrix STLC and TCLP Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Sample ID	Total and Soluble Waste Threshold Concentrations						Waste Characterization
	Lead - TTLC (mg/kg)	Lead - STLC (mg/L)	Lead - TCLP (mg/L)	Arsenic - TTLC (mg/kg)	Arsenic - STLC (mg/L)	Lead - TCLP (mg/L)	
Hazardous Waste Limits:	**1,000**	**5**	**5**	**500**	**5**	**5**	
SS1A-0.5	**169**	**15.4**	**0.203**	▪	▪	▪	California Hazardous
SS2A-0.5	**174**	**15.1**	**0.302**	▪	▪	▪	California Hazardous
SS22A-0.5	**68.8**	**3.26**	**0.022 J**	▪	▪	▪	Non-Hazardous
SS22C-0.5	**59.7**	**2.16**	**0.008 J**	▪	▪	▪	Non-Hazardous
SS27C-1.5	▪	▪	▪	**17.1**	**1.08**	**0.01**	Non-Hazardous
SS32A-0.5	**201**	**83.7**	**0.020 J**	▪	▪	▪	California Hazardous
SS38C-0.5	**71.7**	**3.1**	**0.011J**	▪	▪	▪	Non-Hazardous
SS47C-0.5	**62.7**	**3.32**	**0.017 J**	▪	▪	▪	Non-Hazardous
SS54C-0.5	**63.6**	**4.47**	**0.036 J**	▪	▪	▪	Non-Hazardous
SS55C-0.5	▪	▪	▪	**12.8**	**0.16**	**0.029 J**	Non-Hazardous
SS70B-0.5	**134**	**11.5**	**0.16**	▪	▪	▪	California Hazardous
SS73C-0.5	**121**	**6.51**	**< 0.004**	▪	▪	▪	California Hazardous
SS74A-0.5	**247**	**17.6**	**0.107**	▪	▪	▪	California Hazardous
SS76C-1.5	**570**	**9.14**	**0.147**	▪	▪	▪	California Hazardous
SS77A-0.5	**468**	**36.2**	**0.302**	▪	▪	▪	California Hazardous
SS79D-0.5DUP	**121**	**8.68**	**0.16**	▪	▪	▪	California Hazardous
SS80C-0.5	**131**	**9.88**	**0.089**	▪	▪	▪	California Hazardous
SS82C-0.5	**55**	**3.53**	**0.06**	▪	▪	▪	Non-Hazardous
SS87C-0.5	**131**	**10.8**	**0.07**	▪	▪	▪	California Hazardous
SS88C-0.5	▪	▪	▪	**14.4**	**1.353**	**0.056**	Non-Hazardous
SS92C-0.5	**55.7**	**2.32**	**0.006 J**	▪	▪	▪	Non-Hazardous
SS93A-0.5	**204**	**4.15**	**0.024 J**	▪	▪	▪	Non-Hazardous
SS95A-0.5	**132**	**14.1**	**0.056**	▪	▪	▪	California Hazardous
SS96C-0.5	**602**	**15.8**	**0.182**	▪	▪	▪	California Hazardous
SS98B-0.5	**27.8**	**0.636**	**<0.004**	▪	▪	▪	Non-Hazardous
SS101B-1.5	▪	▪	▪	**19.4**	**1.55**	**0.201**	Non-Hazardous
SS102A-0.5	**74.8**	**7.34**	**0.067**	▪	▪	▪	California Hazardous

NOTES:

▪ = Not analyzed

STLC = Soluble Threshold Limit Concentration

TTLC = Total Treshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

J=concentration is between method detection limit and laboratory reporting limit.

mg/L = milligrams per liter

mg/kg = milligrams per kilogram

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TABLE 3
Summary of Shallow Soil Sample Organochlorine Pesticide Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Sample ID	COMPOSITE RATIO	Sample Date	Soil Matrix OCP Results by EPA Method 8081A (µg/kg)																					
			alpha-BHC	gamma-BHC (Lindane)	beta-BHC	delta-BHC	Heptachlor	Aldrin	Heptachlor epoxide	gamma-Chlordane	alpha-Chlordane	Chlordane	Endosulfan I	4,4'-DDE	Dieldrin	Endrin	4,4'-DDD	Endosulfan II	4,4'-DDT	Endrin aldehyde	Endosulfan sulfate	Methoxychlor	Endrin ketone	Toxaphene
		MDL (ug/kg):	0.33-3.7	0.4-4.1	0.71-7.1	0.5-4.4	0.51-5.1	0.47-4.7	0.46-3.7	0.42-4.2	0.53-5.2	0.5-26	0.50-4.9	0.7-15	0.47-4.7	0.43-4.2	0.35-3.5	0.56-5.6	0.7-24	0.70-7.0	0.47-4.6	0.45-4.5	0.45-4.4	45-580
		RDL (ug/kg):	4.0-50	3.0-50	3.0-50	5.0-10.0	4.0-50	2.0-50	3.0-10.0	5.0-50	5.0-50	25-50	4.0-50	4.0-50	3.0-50	4.0-50	5.0-50	4.0-50	5.0-50	4.0-50	4.0-50	10-100	5.0-50	100-2000
RSLs - Residential Soil:			86	570	300	NE	130	39	70	440	440	440	470	2,000	34	19,000	2,300	470	1,900	NE	NE	320,000	NE	490
DTSC-SLs- Residential Soil:			NE	NE	NE	NE	NE	NE	NE	440	440	440	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
COMP1	1:2	06/24/2016	ND	ND	ND	ND	ND	ND	ND	ND	0.79J	0.79J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP2	1:3	06/23/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP3	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	ND	2.9J	3.9J	6.8J	ND	18	0.69J	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP4	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	ND	4.6J	3.8J	8.4J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP5	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	ND	42J	41J	83J	ND	37J	34J	9.2J	42J	ND	74	ND	ND	ND	ND	ND
COMP6	1:2	06/24/2016	ND	ND	ND	ND	ND	ND	ND	0.73J	1.2J	1.93J	ND	ND	0.79J	ND	1.4J	ND	ND	ND	ND	ND	ND	ND
COMP7	1:3	06/24/2016	ND	ND	ND	ND	ND	0.83J	ND	0.90J	2.3J	3.2J	ND	1.5J	34	0.71J	4.9J	1.9J	6.5	ND	ND	ND	ND	ND
COMP8	1:2	06/24/2016	ND	ND	ND	ND	ND	ND	ND	0.55J	0.74J	1.29J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP9	1:4	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0J	ND	ND	3.7J	ND	2.8J	ND	ND	ND	ND	ND
COMP10	1:4	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2J	ND	ND	ND	ND	ND
COMP11	1:4	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8J	ND	ND	ND	ND	ND	ND	ND
COMP11DUP	1:4	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP12	1:4	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2J	ND	ND	ND	ND	ND
COMP13	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	ND	0.99J	1.2J	2.19J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP14	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	ND	2.1J	2.7J	4.8J	ND	1.5J	ND	ND	0.48J	ND	ND	ND	ND	ND	ND	ND
COMP15	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	ND	2.1J	3.8J	5.9J	ND	ND	1.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP16	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	0.68J	13	19	32	ND	28	4.4J	ND	ND	ND	12	ND	ND	ND	ND	ND
COMP17	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	ND	1.8J	3.3J	5.1J	ND	ND	ND	ND	0.39J	ND	ND	ND	0.50J	ND	ND	ND
COMP17DUP	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	0.50J	3.7J	5.1	8.8	ND	ND	0.48J	ND	1.1J	ND	ND	ND	ND	ND	ND	ND
COMP18	1:4	06/24/2016	ND	ND	ND	ND	ND	ND	ND	0.85J	ND	0.85J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP19	1:4	06/23/2016	ND	ND	ND	ND	ND	ND	0.49J	1.0J	3.0J	4.0J	ND	5.1	3.9J	0.48J	1.8J	ND	3.0J	ND	ND	ND	ND	ND
COMP20	1:3	06/23/2016	ND	ND	ND	ND	ND	ND	ND	1.2J	1.5J	2.7J	ND	2.0J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP21	1:4	06/24/2016	ND	ND	ND	ND	ND	ND	1.5J	8.4	19	27.4	ND	ND	ND	ND	ND	ND	7.1	ND	ND	ND	ND	ND
COMP22	1:2	06/23/2016	ND	ND	ND	ND	ND	ND	ND	ND	0.80J	0.80J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COMP23	1:4	06/24/2016	ND	ND	ND	ND	ND	ND	ND	3.9J	6.9J	10.8J	ND	55	2.1J	14	2.3J	2.7J	39	ND	2.4J	ND	ND	ND
COMP24	1:3	06/24/2016	ND	ND	ND	ND	0.63J	ND	ND	2.0J	2.4J	4.4J	ND	ND	ND	ND	0.68J	ND	4.0J	ND	ND	ND	ND	ND
SS3-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS4-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS9-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS24-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	--	--	59	ND	6.7	ND	ND	ND	ND	3.0J	ND	ND	ND	ND	ND
SS32-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	--	--	31J	ND	ND	ND	ND	ND	ND	3.5J	ND	ND	ND	ND	ND
SS53-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	--	--	30J	ND	ND	ND	ND	ND	ND	3.8J	ND	ND	ND	ND	ND
SS91-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS97-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS100-0.5	--	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
ug/kg = micrograms per kilogram
DUP = Duplicate
OCPs = Organochlorine Pesticides
MDL = Method Detection Limit
RDL = Reporting Detection Limit
ND = Not detected at or above the MDL
NE = No Screening Level Established
-- = Not Applicable
RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2016
DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels, updated June 2016
J = Analyte was detected; however, result is an estimated value between the PQL and the MDL
= Indicates concentration of the composited sample, exceeds the California Human Health Screening Levels for soil in a residential land use scenario.

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TABLE 4
Summary of Soil Matrix Sample PCB Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Sample ID	Sample Date	Soil Matrix PCB Results by EPA Method 8082 (mg/kg)								
		PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268
MDL (mg/kg):		**0.0037-0.021**	**0.0037-.0043**	**0.0037-0.025**	**0.0037-0.037**	**0.0037-0.032**	**0.0037-0.032**	**0.0037-0.031**	**0.02-0.035**	**0.011-0.034**
RDL (mg/kg):		**0.01-0.051**	**0.01-0.051**	**0.01-0.051**	**0.01-0.051**	**0.01-0.051**	**0.01-0.51**	**0.01-0.051**	**0.05-0.051**	**0.05-0.051**
RSLs - Residential Soil (mg/kg):		**4.1**	**0.2**	**0.17**	**0.23**	**0.23**	**0.24**	**0.24**	**NE**	**NE**
SS4-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS5-0.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS12-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	**0.009J**	--	--
SS19-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS19-0.5 DUP	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS20-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS27-0.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS28-0.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS31-0.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS32-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS35-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS36-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS37-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS37-0.5DUP	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS38-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	**0.032J**	ND	ND
SS39-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS40-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS41-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS42-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS43-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS43-0.5DUP	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS44-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS45-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS46-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS47-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS48-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS49-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS50-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS55-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS56-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	**0.0071J**	--	--
SS57-0.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS58-10.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS59-10.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS60-10.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS61-10.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS62-10.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS63-10.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS64-10.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS65-10.5	06/24/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS67-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS67-0.5 DUP	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS68-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	**0.0049J**	--	--
SS69-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS80-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	**0.0096J**	--	--
SS97-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS99-0.5	06/23/2016	ND	ND	ND	ND	ND	ND	ND	--	--
SS100-0.5	08/02/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
mg/kg = milligrams per kilogram
DUP = Duplicate
PCBs = Polychlorinated Biphenyls
MDL = Method Detection Limit
RDL = Reporting Detection Limit
RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2016
ND = Not detected at or above the MDL
-- = Not Applicable
NE = Screening Level Not Established
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL

ALTA ENVIRONMENTAL

TABLE 5
Summary of Soil Matrix Sample Title 22 Metals Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Sample ID	Title 22 Metals Results by EPA Method 6010B/7471A (mg/kg) and Mecury Results by EPA Method 7471 (mg/kg)																	
	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
	MDL (mg/kg):	**0.37**	**0.36**	**0.23**	**0.17**	**0.21**	**0.13**	**0.19**	**0.31**	**0.32**	**0.13**	**0.2**	**0.72**	**0.13**	**0.42**	**0.37**	**0.28**	**0.02**
	RDL (mg/kg):	**3**	**1**	**1**	**0.5**	**0.5**	**1**	**0.5**	**1**	**0.5**	**1**	**1.5**	**1**	**0.5**	**1**	**0.5**	**5**	**0.14**
	RSLs res.:	**31**	**12***	**15,000**	**160**	**71**	**180,000**	**23**	**3,100**	**400**	**390**	**NE**	**390**	**390**	**0.78**	**390**	**23,000**	**11**
	DTSC-SL.:	**30**	**12***	**5,200**	**16**	**1.7**	**100,000**	**660**	**3,000**	**80**	**380**	**1,600**	**380**	**380**	**5.00**	**530**	**23,000**	**1**
SS66-0.5	6/24/2016	ND	**3.46**	**104**	ND	**0.52**	**15.7**	**11.4**	**17.7**	**11.9**	**0.39J**	**12.4**	ND B	ND	ND	**37.3**	**57.8**	**0.05J**
SS67-0.5	6/23/2016	ND	**5.47**	**132**	ND	**0.38 J**	**18.4**	**11.0**	**18.6 B**	**44.3**	ND	**11.4**	ND	ND B	ND	**42.3**	**102**	**0.11 J**
SS68-0.5	6/23/2016	ND	**6.69**	**167**	ND	**0.70**	**17.7**	**9.61**	**25.3 B**	**124**	ND	**11.6**	ND	ND B	ND	**37.3**	**391**	**0.09 J**
SS97-0.5	6/22/2016	ND	**2.61**	**71.2**	ND	**0.37 J**	**13.1**	**5.25**	**13.2**	**18.2**	**0.99 J**	**11.4**	ND B	ND	ND	**21.7**	**40.0**	ND
SS98-0.5	6/23/2016	ND	**3.71**	**128**	ND	**0.94**	**15.0**	**9.45**	**24.3 B**	**108**	ND	**10.7**	ND	ND B	ND	**36.0**	**162**	**0.11 J**
SS98-0.5DUP	6/23/2016	ND	**4.42**	**124**	ND	**1.61**	**17.1**	**12.0**	**15.0 B**	**3.79**	ND	**11.3**	ND	ND B	ND	**43.2**	**429**	**0.07 J**
SS99-0.5	6/23/2016	ND	**5.35**	**107**	ND	ND	**13.7**	**9.02**	**16.0**	**40.6**	ND	**8.93**	ND	ND	ND	**31.9**	**115**	**0.05J**
SS100-0.5	6/22/2016	ND	**3.74**	**84.8**	ND	**0.42J**	**11.5**	**5.52**	**11.9**	**19.0**	**1.54**	**12.2**	ND B	**0.52**	ND	**23.7**	**50.0**	**0.06J**

NOTES:
mg/kg = milligrams per kilogram
ND = Indicates constituent not detected at or above the MDL
MDL = Method Detection Limit
RDL = Reporting Detection Limit
RSL = United States Environmental Protection Agency Regional Screening Level (RSL) for residential land use, updated May 2016
DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels, updated June 2016
J = Analyte detected; however result is an estimated value between the MDL and the RDL
B = Analyte was present in the associated method blank

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TABLE 6
Summary of Soil Matrix Sample TPH Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Sample ID	Sample Date	Soil Matrix TPHcc by EPA Method 8015M (mg/kg)		
		TPH-g	TPH-d	TPH-o
	MDL (mg/kg):	0.13992-1.7	0.4-6.3	2.1-150
	RDL (mg/kg):	2.64-3.0	1.0-25	5.0-630
	MSSLs:	500	1,000	10,000
	ESLs:	740	230	11,000
SS4-0.5	6/22/2016	ND	**4.4**	**14**
SS5-0.5	6/24/2016	ND	ND	ND
SS6-0.5	6/23/2016	ND	**19**	**480**
SS7-0.5	6/23/2016	ND	**52**	**2,800**
SS27-0.5	6/24/2016	ND	**66**	**270**
SS28-0.5	6/24/2016	ND	ND	ND
SS31-0.5	6/24/2016	ND	ND	ND
SS32-0.5	6/22/2016	ND	**3.8**	**23**
SS35-0.5	6/22/2016	ND	**43**	**270**
SS36-0.5	6/22/2016	ND	**180**	**1,700**
SS37-0.5	6/22/2016	ND	**5.1**	**61**
SS37-0.5DUP	6/22/2016	ND	**10**	**170**
SS38-0.5	6/22/2016	ND	**18**	**200**
SS39-0.5	6/22/2016	ND	**30**	**530**
SS40-0.5	6/22/2016	ND	**3.0**	**52**
SS41-0.5	6/21/2016	ND	ND	ND
SS42-0.5	6/22/2016	ND	**1.6**	**17**
SS43-0.5	6/22/2016	ND	**12**	**89**
SS43-0.5DUP	6/22/2016	ND	**13**	**87**
SS44-0.5	6/22/2016	ND	**91**	**1,200**
SS45-0.5	6/22/2016	ND	**19**	**170**
SS46-0.5	6/22/2016	ND	ND	**30**
SS47-0.5	6/22/2016	ND	**43**	**570**
SS48-0.5	6/22/2016	ND	**9.6**	**150**
SS49-0.5	6/22/2016	ND	**29**	**260**
SS50-0.5	6/22/2016	ND	**93**	**120**
SS55-0.5	6/23/2016	ND	**47**	**83**
SS56-0.5	6/23/2016	ND	**77**	**390**
SS57-0.5	6/24/2016	ND	ND	ND
SS58-10.5	6/24/2016	ND	ND	ND
SS59-10.5	6/24/2016	ND	ND	ND
SS60-10.5	6/23/2016	ND	ND	ND
SS61-10.5	6/23/2016	ND	ND	ND
SS62-10.5	6/23/2016	ND	**47**	**8.4**
SS63-10.5	6/23/2016	ND	**96**	**28**
SS64-10.5	6/24/2016	ND	ND	ND
SS65-10.5	6/24/2016	ND	ND	ND
SS66-0.5	6/24/2016	ND	**110**	**1,800**
SS67-0.5	6/23/2016	ND	**68**	**68**
SS67-0.5DUP	6/23/2016	ND	**56**	**79**
SS68-0.5	6/23/2016	ND	**48**	**92**
SS97-0.5	6/22/2016	ND	ND	ND
SS98-0.5	6/23/2016	ND	**48**	**52**
SS98-0.5DUP	6/23/2016	ND	**97**	**39**
SS99-0.5	6/23/2016	ND	**66**	**49**
SS100-0.5	8/2/2016	ND	**4.5**	**36**

NOTES:
MDL = Method Detection Limit
RDL = Reporting Detection Limit
MSSL = Maximum Soil Screening Level for groundwater 20-150 feet below ground surface
ESL = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels, February 2016
ND = Indicates constituent not detected at or above the MDL
TPH-g = total petroleum hydrocarbons as gas
TPH-d = total petroleum hydrocarbons as diesel
TPH-o = total petroleum hydrocarbons as oil
mg/kg = milligrams per kilogram
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL

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TABLE 7
Summary of Soil Matrix Sample VOC Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

VOCs by EPA Method 8260B	MDLs			RDLs			RSL	DTSC-SL	SS4-0.5	SS5-0.5	SS6-0.5	SS7-0.5
								Sample ID:	SS4-0.5	SS5-0.5	SS6-0.5	SS7-0.5
								Date Collected:	6/22/2016	6/24/2016	6/23/2016	6/23/2016
									VOC Concentration (ug/kg)			
1,1,1,2-Tetrachloroethane	0.1992	–	0.3168	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,1,1-Trichloroethane	0.1245	–	0.198	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.2407	–	0.3828	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,1,2-Trichloroethane	0.1826	–	0.2904	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	0.6142	–	0.9768	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,1-Dichloroethane	0.1909	–	0.3036	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,1-Dichloroethene	0.1494	–	0.2376	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,1-Dichloropropene	0.1743	–	0.2772	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2,3-Trichloropropane	0.166	–	0.264	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.2739	–	0.4356	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.2324	–	0.3696	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.166	–	0.264	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2-Dibromoethane	0.0996	–	0.1584	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2-Dichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2-Dichloroethane	0.1162	–	0.1848	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,2-Dichloropropane	0.2822	–	0.4488	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.1909	–	0.3036	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,3-Dichlorobenzene	0.1743	–	0.2772	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,3-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	NA	ND	ND	ND	ND
1,4-Dichlorobenzene	0.1992	–	0.3168	4.15	–	6.6	NA	NA	ND	ND	ND	ND
2,2-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	NA	ND	ND	ND	ND
2-Butanone (MEK)	0.5976	–	0.9504	83	–	132	**27,000,000**	**NE**	ND	ND	**2.0 J**	**4.2 J**
2-Chloroethyl Vinyl Ether	0.249	–	0.396	4.15	–	6.6	NA	NA	ND	ND	ND	ND
2-Chlorotoluene	0.2075	–	0.33	4.15	–	6.6	NA	NA	ND	ND	ND	ND
4-Chlorotoluene	0.1826	–	0.2904	4.15	–	6.6	NA	NA	ND	ND	ND	ND
4-Isopropyltoluene	0.2241	–	0.3564	4.15	–	6.6	NA	NA	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.1411	–	0.2244	4.15	–	6.6	**33,000,000**	**NE**	ND	ND	ND	ND
Acetone	8.3	–	13.2	83	–	132	**61,000,000**	**NE**	**13 J**	**13J**	**20 J**	**31 J**
Allyl Chloride	0.1162	–	0.1848	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Benzene	0.1494	–	0.2376	4.15	–	6.6	**1,200**	**330**	**2.1 J**	**3.7J**	**2.3 J**	**0.46 J**
Bromobenzene	0.249	–	0.396	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Bromochloromethane	0.1494	–	0.2376	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Bromodichloromethane	0.166	–	0.264	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Bromoform	0.1577	–	0.2508	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Bromomethane	0.1826	–	0.2904	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Carbon Tetrachloride	0.1494	–	0.2376	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Chlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Chlorodibromomethane	0.1577	–	0.2508	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Chloroethane	0.166	–	0.264	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Chloroform	0.1411	–	0.2244	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Chloromethane	0.1743	–	0.2772	4.15	–	6.6	NA	NA	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.166	–	0.264	4.15	–	6.6	NA	NA	ND	ND	ND	ND
cis-1,3-dichloropropene	0.166	–	0.264	4.15	–	6.6	NA	NA	ND	ND	ND	ND
cis-1,4-dichloro-2-butene	0.166	–	0.264	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Di-isopropyl ether (DIPE)	0.1743	–	0.2772	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Dibromomethane	0.1909	–	0.3036	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Dichlorodifluoromethane	0.1909	–	0.3036	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Ethyl-tertbutylether (ETBE)	0.3486	–	0.5544	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Ethylbenzene	0.2075	–	0.33	4.15	–	6.6	NA	NA	ND	**0.31J**	ND	ND
Hexachlorobutadiene	0.3154	–	0.5016	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Isopropylbenzene	0.1411	–	0.2244	4.15	–	6.6	NA	NA	ND	ND	ND	ND
m and p-Xylene	0.1743	–	0.2772	4.15	–	6.6	**1,100,000**	**NE**	ND	**0.41J**	**0.30 J**	ND
Methyl-t-butyl Ether (MTBE)	0.2075	–	0.33	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Methylene chloride	0.1826	–	0.2904	4.15	–	6.6	**57,000**	**1,900**	**0.28 J**	**0.26J**	**0.31 J**	ND
N-butylbenzene	0.1328	–	0.2112	4.15	–	6.6	**3,900,000**	**1,200,000**	ND	ND	ND	ND
N-propylbenzene	0.1577	–	0.2508	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Naphthalene	0.2324	–	0.3696	4.15	–	6.6	NA	NA	ND	ND	ND	ND
o-Xylene	0.1079	–	0.1716	4.15	–	6.6	NA	NA	ND	**0.27J**	ND	ND
Sec-butylbenzene	0.2822	–	0.4488	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Styrene	0.1909	–	0.3036	4.15	–	6.6	NA	NA	ND	ND	ND	ND
t-Butyl alcohol (TBA)	7.304	–	11.616	8.3	–	13.2	NA	NA	ND	ND	ND	ND
Tert-amylmethylether (TAME)	0.1577	–	0.2508	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Tert-butylbenzene	0.1494	–	0.2376	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Tetrachloroethene	0.166	–	0.264	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Toluene	0.1909	–	0.3036	4.15	–	6.6	**4,900,000**	**1,100,000**	**0.67 J**	**1.8J**	**0.88 J**	ND
trans-1,2-dichloroethene	0.1909	–	0.3036	4.15	–	6.6	NA	NA	ND	ND	ND	ND
trans-1,3-dichloropropene	0.1162	–	0.1848	4.15	–	6.6	NA	NA	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	0.3154	–	0.5016	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Trichloroethene	0.3237	–	0.5148	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Trichlorofluoromethane	0.2075	–	0.33	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Vinyl Chloride	0.1494	–	0.2376	4.15	–	6.6	NA	NA	ND	ND	ND	ND
Xylenes (Total)	0.3735	–	0.594	4.15	–	6.6	NA	NA	ND	**0.68J**	ND	ND
								Dilution Factor:	**1.16**	**1.14**	**1.09**	**1.22**

NOTES:
VOC = Volatile Organic Compound
DUP = Duplicate
MDL = Method Detection Limit
RDL = Reporting Detection Limit
ND = Indicates constituent not detected at or above the MDL
RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2016
DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels, updated June 2016
ug/kg = micrograms per kilogram
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL
NA = not applicable
NE = not established

ALTA ENVIRONMENTAL

TABLE 7
Summary of Soil Matrix Sample VOC Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

VOCs by EPA Method 8260B	MDLs			RDLs			RSL	SS27-0.5	SS28-0.5	SS31-0.5	SS32-0.5	SS35-0.5	SS36-0.5	SS37-0.5	SS37-0.5DUP
							Dat	6/24/2016	6/24/2016	6/24/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016
								VOC Concentration (ug/kg)							
1,1,1,2-Tetrachloroethane	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.1245	–	0.198	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.2407	–	0.3828	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	0.6142	–	0.9768	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.2739	–	0.4356	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0996	–	0.1584	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.5976	–	0.9504	83	–	132	27,000,000	**2.8J**	**1.7J**	ND	**0.86 J**	**2.3 J**	**2.8 J**	**3.5 J**	ND
2-Chloroethyl Vinyl Ether	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.2241	–	0.3564	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.1411	–	0.2244	4.15	–	6.6	33,000,000	**1.2J**	ND	ND	ND	ND	ND	ND	ND
Acetone	8.3	–	13.2	83	–	132	61,000,000	**29J**	**12J**	ND	**85 J**	**20 J**	**30 J**	**18 J**	**17 J**
Allyl Chloride	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.1494	–	0.2376	4.15	–	6.6	1,200	**1.1J**	**1.3J**	**1.2J**	**1.3 J**	**0.95 J**	**1.5 J**	ND	**1.5 J**
Bromobenzene	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,4-dichloro-2-butene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether (DIPE)	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tertbutylether (ETBE)	0.3486	–	0.5544	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
m and p-Xylene	0.1743	–	0.2772	4.15	–	6.6	1,100,000	**0.26J**	**1.1J**	ND	ND	ND	ND	ND	**0.24 J**
Methyl-t-butyl Ether (MTBE)	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.1826	–	0.2904	4.15	–	6.6	57,000	**1.1J**	**0.68J**	ND	ND	ND	ND	**0.25 J**	**0.28 J**
N-butylbenzene	0.1328	–	0.2112	4.15	–	6.6	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND
N-propylbenzene	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.1079	–	0.1716	4.15	–	6.6	NA	ND	**0.40J**	ND	ND	ND	ND	ND	ND
Sec-butylbenzene	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl alcohol (TBA)	7.304	–	11.616	8.3	–	13.2	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tert-amylmethylether (TAME)	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tert-butylbenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.1909	–	0.3036	4.15	–	6.6	4,900,000	**0.79J**	**0.62J**	**0.57J**	**0.60 J**	**0.40 J**	**0.57 J**	ND	**0.65 J**
trans-1,2-dichloroethene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.3237	–	0.5148	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	0.3735	–	0.594	4.15	–	6.6	NA	ND	**1.5J**	ND	ND	ND	ND	ND	ND
							Dil	**1.09**	**1.04**	**1.14**	**1.19**	**0.83**	**1.16**	**1.09**	**1.11**

NOTES:
VOC = Volatile Organic Compound
DUP = Duplicate
MDL = Method Detection Limit
RDL = Reporting Detection Limit
ND = Indicates constituent not detected at or above the MDL
RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated Ma
DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels, updated June 2016
ug/kg = micrograms per kilogram
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL
NA = not applicable
NE = not established

ALTA ENVIRONMENTAL

TABLE 7
Summary of Soil Matrix Sample VOC Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

VOCs by EPA Method 8260B	MDLs			RDLs			RSL	SS38-0.5	SS39-0.5	SS40-0.5	SS41-0.5	SS42-0.5	SS43-0.5	SS43.05DUP	SS44-0.5
							Dat	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016
								VOC Concentration (ug/kg)							
1,1,1,2-Tetrachloroethane	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.1245	–	0.198	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.2407	–	0.3828	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	0.6142	–	0.9768	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.2739	–	0.4356	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	**0.28 J**	ND
1,2-Dibromo-3-chloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0996	–	0.1584	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.5976	–	0.9504	83	–	132	**27,000,000**	**0.83 J**	ND	**3.4 J**	ND	**3.2 J**	ND	**5.4 J**	**2.0 J**
2-Chloroethyl Vinyl Ether	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.2241	–	0.3564	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.1411	–	0.2244	4.15	–	6.6	**33,000,000**	ND	ND	ND	ND	**0.88 J**	ND	**0.31 J**	ND
Acetone	8.3	–	13.2	83	–	132	**61,000,000**	**14 J**	**11 J**	**24 J**	ND	**19 J**	**9.5 J**	**19 J**	**16 J**
Allyl Chloride	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.1494	–	0.2376	4.15	–	6.6	**1,200**	**0.85 J**	**0.31 J**	ND	**1.6 J**	**0.67 J**	**0.20 J**	**2.3 J**	**0.79 J**
Bromobenzene	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,4-dichloro-2-butene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether (DIPE)	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tertbutylether (ETBE)	0.3486	–	0.5544	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	**0.57 J**	ND
Hexachlorobutadiene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
m and p-Xylene	0.1743	–	0.2772	4.15	–	6.6	**1,100,000**	ND	ND	ND	ND	**0.21 J**	ND	**0.74 J**	ND
Methyl-t-butyl Ether (MTBE)	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.1826	–	0.2904	4.15	–	6.6	**57,000**	ND	**0.28 J**	ND	ND	ND	ND	**0.54 J**	ND
N-butylbenzene	0.1328	–	0.2112	4.15	–	6.6	**3,900,000**	ND	ND	ND	**0.33 J**	ND	ND	ND	ND
N-propylbenzene	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.1079	–	0.1716	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	**0.36 J**	ND
Sec-butylbenzene	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl alcohol (TBA)	7.304	–	11.616	8.3	–	13.2	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tert-amylmethylether (TAME)	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tert-butylbenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.1909	–	0.3036	4.15	–	6.6	**4,900,000**	**0.40 J**	ND	ND	**0.54 J**	**0.46 J**	ND	**2.3 J**	**0.39 J**
trans-1,2-dichloroethene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.3237	–	0.5148	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	0.3735	–	0.594	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	**1.1 J**	ND
							Dilu	**0.98**	**0.91**	**1.19**	**1.32**	**0.89**	**0.89**	**0.94**	**0.91**

NOTES:
VOC = Volatile Organic Compound
DUP = Duplicate
MDL = Method Detection Limit
RDL = Reporting Detection Limit
ND = Indicates constituent not detected at or above the MDL
RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated Ma
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ug/kg = micrograms per kilogram
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL
NA = not applicable
NE = not established

ALTA ENVIRONMENTAL

TABLE 7
Summary of Soil Matrix Sample VOC Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

VOCs by EPA Method 8260B	MDLs			RDLs			RSL	SS45-0.5	SS46-0.5	SS47-0.5	SS48-0.5	SS49-0.5	SS50-0.5	SS55-0.5	SS56-0.5	SS57-0.5
							Dat	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/22/2016	6/23/2016	6/23/2016	6/24/2016
								VOC Concentration (ug/kg)								
1,1,1,2-Tetrachloroethane	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.1245	–	0.198	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.2407	–	0.3828	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	0.6142	–	0.9768	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.2739	–	0.4356	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0996	–	0.1584	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.5976	–	0.9504	83	–	132	**27,000,000**	**10 J**	**0.90 J**	**3.9 J**	**2.3 J**	**3.5 J**	**1.5 J**	**1.9 J**	**0.83 J**	**2.0J**
2-Chloroethyl Vinyl Ether	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.2241	–	0.3564	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.1411	–	0.2244	4.15	–	6.6	**33,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	8.3	–	13.2	83	–	132	**61,000,000**	**53 J**	**17 J**	**31 J**	**21 J**	**26 J**	**14 J**	**16 J**	**16 J**	**14J**
Allyl Chloride	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.1494	–	0.2376	4.15	–	6.6	**1,200**	**1.1 J**	**1.7 J**	**0.51 J**	**0.59 J**	**1.4 J**	**1.2 J**	**1.7 J**	**1.5 J**	**1.6J**
Bromobenzene	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.1494	–	0.2376	4.15	–	6.6	NA	**2.0 J**	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,4-dichloro-2-butene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether (DIPE)	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tertbutylether (ETBE)	0.3486	–	0.5544	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
m and p-Xylene	0.1743	–	0.2772	4.15	–	6.6	**1,100,000**	ND	ND	**0.31 J**	ND	**0.30 J**	**0.48 J**	ND	**0.25 J**	ND
Methyl-t-butyl Ether (MTBE)	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.1826	–	0.2904	4.15	–	6.6	**57,000**	**0.34 J**	ND	ND	ND	ND	ND	ND	ND	**0.35J**
N-butylbenzene	0.1328	–	0.2112	4.15	–	6.6	**3,900,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-propylbenzene	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.1079	–	0.1716	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sec-butylbenzene	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl alcohol (TBA)	7.304	–	11.616	8.3	–	13.2	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-amylmethylether (TAME)	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-butylbenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	**0.44 J**	ND	ND
Toluene	0.1909	–	0.3036	4.15	–	6.6	**4,900,000**	**0.74 J**	**0.77 J**	**0.42 J**	**0.37 J**	**0.78 J**	ND	**0.68 J**	**0.64 J**	**0.63J**
trans-1,2-dichloroethene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.3237	–	0.5148	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	0.3735	–	0.594	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
							Dilu	**1.16**	**1.22**	**1.32**	**1.32**	**1.25**	**1.02**	**1.14**	**1.11**	**1.02**

NOTES:
VOC = Volatile Organic Compound
DUP = Duplicate
MDL = Method Detection Limit
RDL = Reporting Detection Limit
ND = Indicates constituent not detected at or above the MDL
RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated Ma
DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels, updated June 2016
ug/kg = micrograms per kilogram
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL
NA = not applicable
NE = not established

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TABLE 7
Summary of Soil Matrix Sample VOC Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

VOCs by EPA Method 8260B	MDLs			RDLs			RSL	SS58-10.5	SS59-10.5	SS60-10.5	SS61-10.5	SS62-10.5	SS63-10.5	SS64-10.5	SS65-10.5	SS66-0.5
							Da	6/24/2016	6/24/2016	6/23/2016	6/23/2016	6/23/2016	6/23/2016	6/24/2016	6/24/2016	6/24/2016
								VOC Concentration (ug/kg)								
1,1,1,2-Tetrachloroethane	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.1245	–	0.198	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.2407	–	0.3828	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	0.6142	–	0.9768	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.2739	–	0.4356	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0996	–	0.1584	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.5976	–	0.9504	83	–	132	**27,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	**2.1J**
2-Chloroethyl Vinyl Ether	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.2241	–	0.3564	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.1411	–	0.2244	4.15	–	6.6	**33,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	8.3	–	13.2	83	–	132	**61,000,000**	ND	ND	ND	ND	ND	ND	ND	ND	**11J**
Allyl Chloride	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.1494	–	0.2376	4.15	–	6.6	**1,200**	ND	**0.22J**	**0.47 J**	**0.51 J**	**0.34 J**	**0.43 J**	**0.93J**	**1.7J**	**0.58J**
Bromobenzene	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,4-dichloro-2-butene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether (DIPE)	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tertbutylether (ETBE)	0.3486	–	0.5544	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
m and p-Xylene	0.1743	–	0.2772	4.15	–	6.6	**1,100,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-t-butyl Ether (MTBE)	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.1826	–	0.2904	4.15	–	6.6	**57,000**	ND	ND	ND	ND	ND	ND	**0.47J**	**0.25J**	ND
N-butylbenzene	0.1328	–	0.2112	4.15	–	6.6	**3,900,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-propylbenzene	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.1079	–	0.1716	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sec-butylbenzene	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl alcohol (TBA)	7.304	–	11.616	8.3	–	13.2	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-amylmethylether (TAME)	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert-butylbenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.1909	–	0.3036	4.15	–	6.6	**4,900,000**	ND	ND	**0.32 J**	**0.26 J**	**0.28 J**	**0.27 J**	**0.45J**	**0.60J**	**0.26J**
trans-1,2-dichloroethene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.3237	–	0.5148	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	0.3735	–	0.594	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
							Dil	**1.00**	**1.00**	**1.14**	**1.11**	**1.14**	**1.16**	**1.32**	**0.96**	**0.89**

NOTES:
VOC = Volatile Organic Compound
DUP = Duplicate
MDL = Method Detection Limit
RDL = Reporting Detection Limit
ND = Indicates constituent not detected at or above the MDL
RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated Ma
DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels, updated June 2016
ug/kg = micrograms per kilogram
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL
NA = not applicable
NE = not established

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TABLE 7
Summary of Soil Matrix Sample VOC Results
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

VOCs by EPA Method 8260B	MDLs			RDLs			RSL	SS67-0.5	SS67-0.5DUP	SS68-0.5	SS97-0.5	SS98-0.5	SS98-0.5DUP	SS99-0.5	SS100-0.5
							Da	6/23/2016	6/23/2016	6/23/2016	6/22/2016	6/23/2016	6/23/2016	6/23/2016	6/22/2016
								VOC Concentration (ug/kg)							
1,1,1,2-Tetrachloroethane	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.1245	–	0.198	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.2407	–	0.3828	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	0.6142	–	0.9768	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.2739	–	0.4356	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0996	–	0.1584	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.1992	–	0.3168	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.5976	–	0.9504	83	–	132	**27,000,000**	**2.0 J**	**1.3 J**	**1.8 J**	ND	ND	ND	**2.1 J**	**1.4 J**
2-Chloroethyl Vinyl Ether	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.2241	–	0.3564	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.1411	–	0.2244	4.15	–	6.6	**33,000,000**	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	8.3	–	13.2	83	–	132	**61,000,000**	**14 J**	**16 J**	**14 J**	ND	**16 J**	ND	**20 J**	ND
Allyl Chloride	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.1494	–	0.2376	4.15	–	6.6	**1,200**	**1.9 J**	**2.3J**	**1.4 J**	**1.3 J**	**1.6 J**	**0.41 J**	**2.1 J**	**0.57 J**
Bromobenzene	0.249	–	0.396	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.1826	–	0.2904	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,4-dichloro-2-butene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropyl ether (DIPE)	0.1743	–	0.2772	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tertbutylether (ETBE)	0.3486	–	0.5544	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.1411	–	0.2244	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
m and p-Xylene	0.1743	–	0.2772	4.15	–	6.6	**1,100,000**	ND	**0.23 J**	ND	ND	ND	ND	**0.29 J**	ND
Methyl-t-butyl Ether (MTBE)	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.1826	–	0.2904	4.15	–	6.6	**57,000**	**0.23 J**	ND	ND	ND	ND	ND	ND	ND
N-butylbenzene	0.1328	–	0.2112	4.15	–	6.6	**3,900,000**	ND	ND	ND	ND	ND	ND	ND	ND
N-propylbenzene	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.2324	–	0.3696	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.1079	–	0.1716	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Sec-butylbenzene	0.2822	–	0.4488	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl alcohol (TBA)	7.304	–	11.616	8.3	–	13.2	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tert-amylmethylether (TAME)	0.1577	–	0.2508	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tert-butylbenzene	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.166	–	0.264	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.1909	–	0.3036	4.15	–	6.6	**4,900,000**	**0.78 J**	**1.0 J**	**0.61 J**	**0.44J**	**0.57 J**	ND	**0.98 J**	**0.31 J**
trans-1,2-dichloroethene	0.1909	–	0.3036	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	0.1162	–	0.1848	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	0.3154	–	0.5016	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.3237	–	0.5148	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.2075	–	0.33	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.1494	–	0.2376	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	0.3735	–	0.594	4.15	–	6.6	NA	ND	ND	ND	ND	ND	ND	ND	ND
							Dil	**1.00**	**1.06**	**1.06**	**0.91**	**1.09**	**1.00**	**0.98**	**1.06**

NOTES:
VOC = Volatile Organic Compound
DUP = Duplicate
MDL = Method Detection Limit
RDL = Reporting Detection Limit
ND = Indicates constituent not detected at or above the MDL
RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated Ma
DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels, updated June 2016
ug/kg = micrograms per kilogram
J = Analyte was detected; however, result is an estimated value between the RDL and the MDL
NA = not applicable
NE = not established

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Table 8: Estimated Volumes of Impacted Soil
Thomas Jefferson High School
1319 E. 41st Street, Los Angeles, California

Boring Area	Depth to Clean Sample	COC	Surface Area (feet sq.)	Volume Cubic Feet	Volume (cubic yards)
SS1	1	Pb	**100**	**100**	**3.70**
SS2D	2	Pb	**65**	**130**	**4.81**
SS2	1	Pb	**60**	**60**	**2.22**
SS21	1	Pb	**50**	**50**	**1.85**
SS22	1	Pb	**32**	**32**	**1.19**
SS27C	2	Pb, As	**400**	**800**	**29.63**
SS27D	1	Pb, As	**300**	**300**	**11.11**
SS32	1	Pb	**160**	**160**	**5.93**
SS38	1	Pb	**80**	**80**	**2.96**
SS43	1	Pb	**80**	**54**	**2.00**
SS47	1	Pb	**80**	**56**	**2.07**
SS53	1	Pb	**50**	**60**	**2.22**
SS54	1	Pb	**100**	**80**	**2.96**
SS55	1	As	**75**	**75**	**2.78**
SS68	1	Pb	**250**	**250**	**9.26**
SS70	1	Pb	**360**	**360**	**13.33**
SS73	1	Pb	**200**	**200**	**7.41**
SS74	1	Pb	**100**	**100**	**3.70**
SS76	1	Pb	**50**	**50**	**1.85**
SS76C	2	Pb	**25**	**50**	**1.85**
SS77	1	Pb	**100**	**100**	**3.70**
SS77A	2	Pb	**25**	**50**	**1.85**
SS79	1	Pb	**400**	**400**	**14.81**
SS80	1	Pb	**150**	**150**	**5.56**
SS82	1	Pb	**50**	**50**	**1.85**
SS87	1	Pb	**325**	**325**	**12.04**
SS88	1	Pb, As	**75**	**75**	**2.78**
SS92	1	Pb	**100**	**100**	**3.70**
SS93	1	Pb	**125**	**125**	**4.63**
SS95	1	Pb	**120**	**120**	**4.44**
SS96	1	Pb	**170**	**170**	**6.30**
SS98	1	Pb	**40**	**40**	**1.48**
SS101	2	Pb/As	**100**	**200**	**7.41**
SS102	1	Pb	**32**	**32**	**1.19**
SS103	1	Pb	**1200**	**1200**	**44.44**
		Total Estimated Cubic Yardage			**229.04**

TABLE 9
Pre and Post Excavation Soil Concentrations Summary
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Constituent of Concern	95% UCL Pre-Excavation	Maximum Pre-Excvation Concentration	Residential Screening Level	95% UCL Post-Excavation	Maximum Post-Excvation Concentration
	mg/kg	(mg/kg)	(mg/kg)	mg/kg	(mg/kg)
Arsenic	6.552	21.1	12	4.530	11.5
Lead	81.41	848	80	36.24	79.1

NOTES:

mg/kg = milligrams per kilogram

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TABLE 10
Human Health Screening Evaluation - Soil
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Maxium Detected Concentrations

Constituent of Concern	Maximum Detected Concentration	Sample Location	Sample Depth	Cancer Screening Level	Source	Non-Cancer Screening Level	Source	Calculated Cancer Risk	Calculated Hazard Index
	mg/kg		Feet BGS	(mg/kg)		(mg/kg)			
Arsenic	21.1	SS101	0-0.5	0.11	Note 3	0.40	Note 3	1.92E-03	5.28E+01
Lead	848	SS77D	0-0.5	▪	Note 3	80	Note 3	▪	1.06E+01
Cumulative Risk								**1.92E-03**	**6.34E+01**

95% UCL Concentrations

Constituent of Concern	95% UCL Concentration	Cancer Screening Level	Source	Non-Cancer Screening Level	Source	Calculated Cancer Risk	Calculated Hazard Index
	mg/kg	(mg/kg)		(mg/kg)			
Arsenic	6.55	0.11	Note 3	0.40	Note 3	5.96E-04	1.64E+01
Lead	81.4	▪	Note 3	80	Note 3	▪	1.02E+00
Cumulative Risk						**5.96E-04**	**1.74E+01**

NOTES:

▪ = Not Appicable

mg/kg = milligrams per kilogram

Feet BGS = feet below ground surface

UCL = Upper Confidence Limit

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Figures

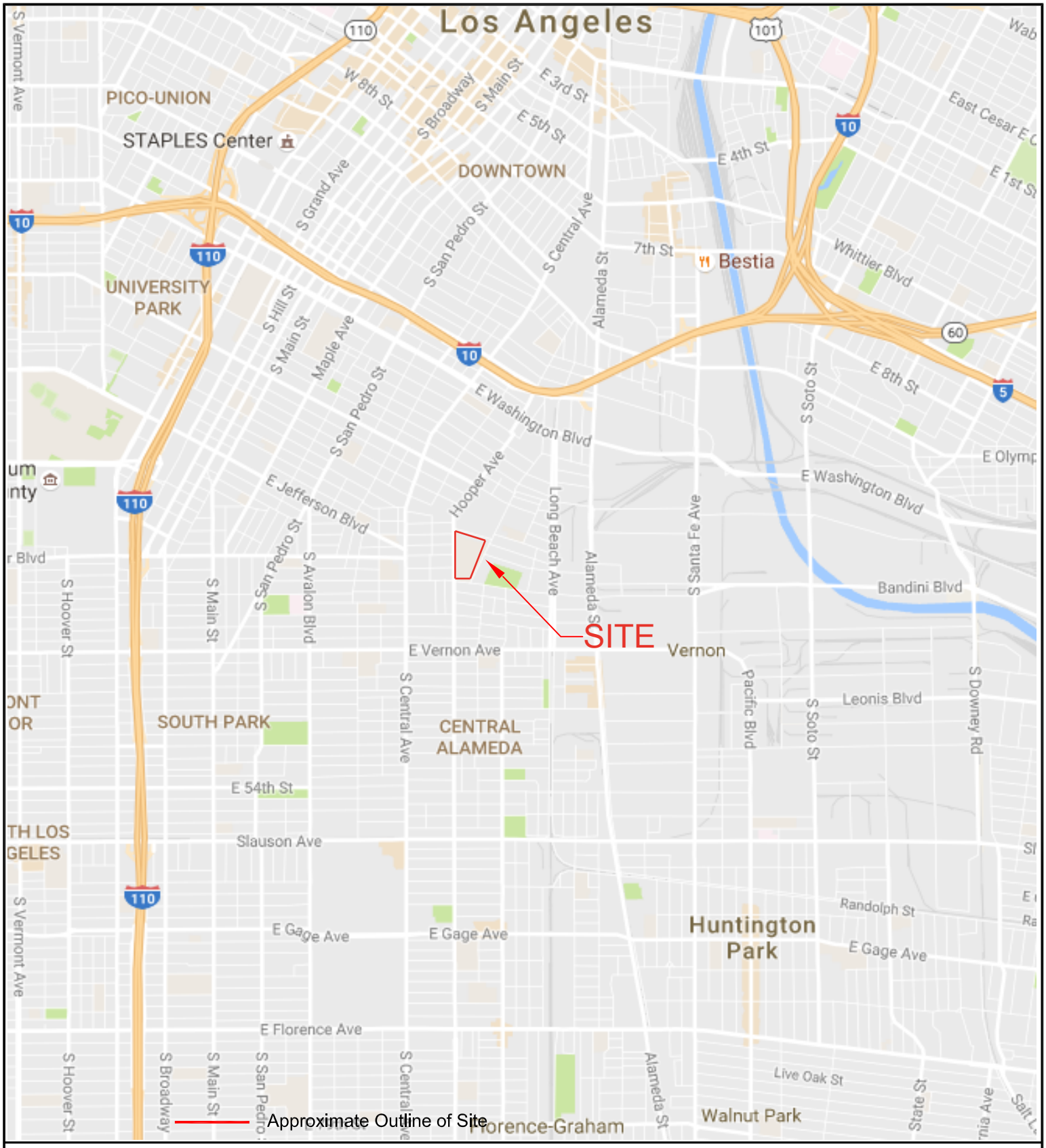

FIGURE 1: SITE LOCATION MAP

CLIENT: Los Angeles Unified School District	SITE LOCATION: Thomas Jefferson High School 1319 East 41st Street, Los Angeles, California
PROJECT #: LAUS-16-6101	

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3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: BP	APPROVED: EF	NORTH
SCALE: None	DATE: 8/17/2016	

LEGEND:

- Approximate Sample Location
- Approximate Sample Locations with lead and arsenic concentrations in exceedance of acceptable screening levels

NOTE:
All location are approximate.

Figure created in color. Significant information may be lost if copied in black and white.

FIGURE 2: Sample Location Map

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: July 2016
SITE: Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California	ALTA ENVIRONMENTAL	
PROJ. NO.: LAUS-16-6101	3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com	

SOURCE : GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)

Note: All Locations are Approximate

- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line
- Fire Suppression Line

Figure created in color. Significant information may be lost if copied in black and white.

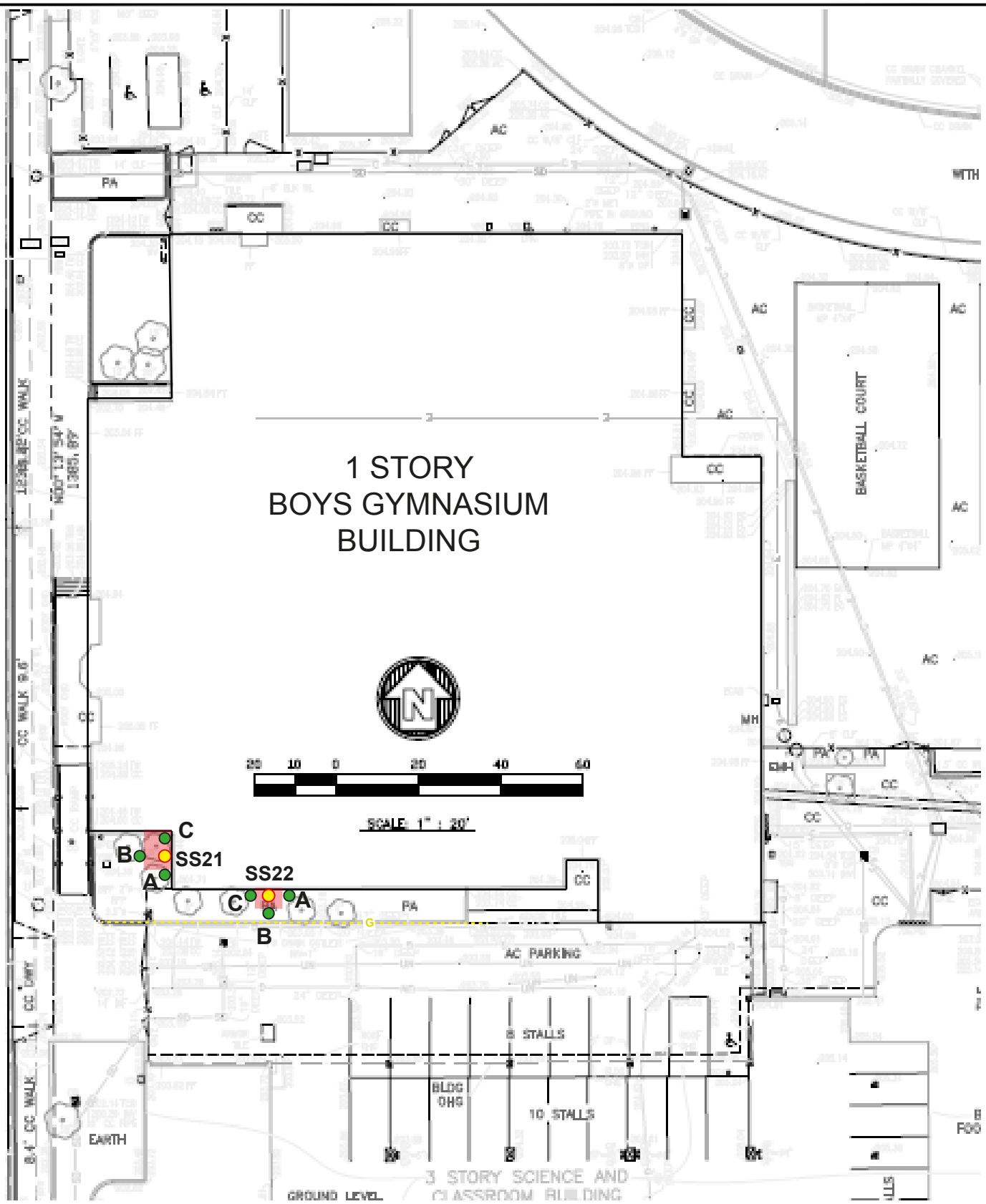
Figure 3: Southeastern Step-out Sample Locations and Area of Impacted Soil

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: January 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-16-6101

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenvIron.com



SOURCE: GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

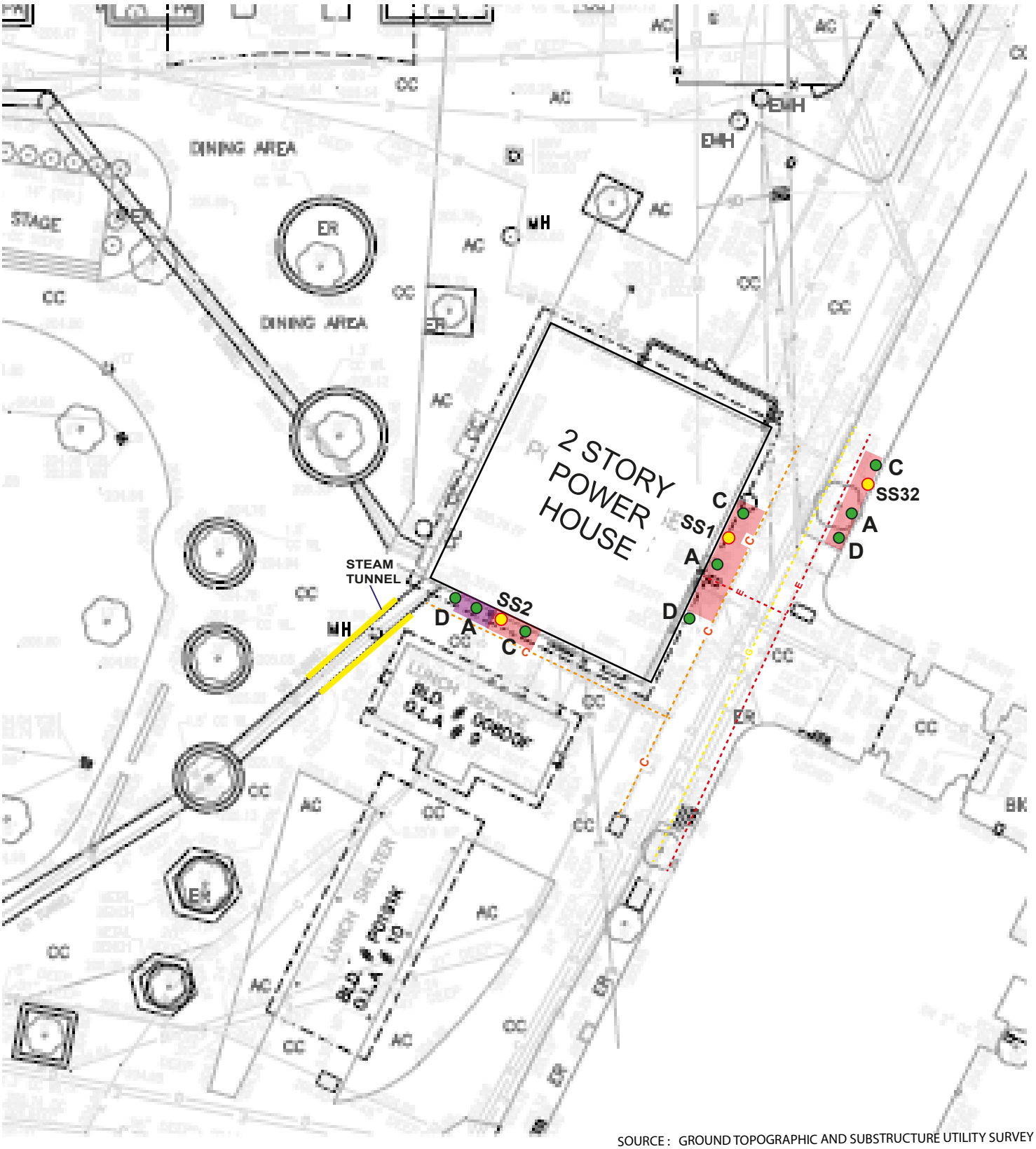
Figure 4: Southwestern Step-Out Sample Locations and Areas of Impacted Soil (Boy's Gymnasium)

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-16-6101

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.con



SOURCE : GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 5: Southwestern Step-Out Sample Locations and Areas of Impacted Soil (Power House)

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-16-6101

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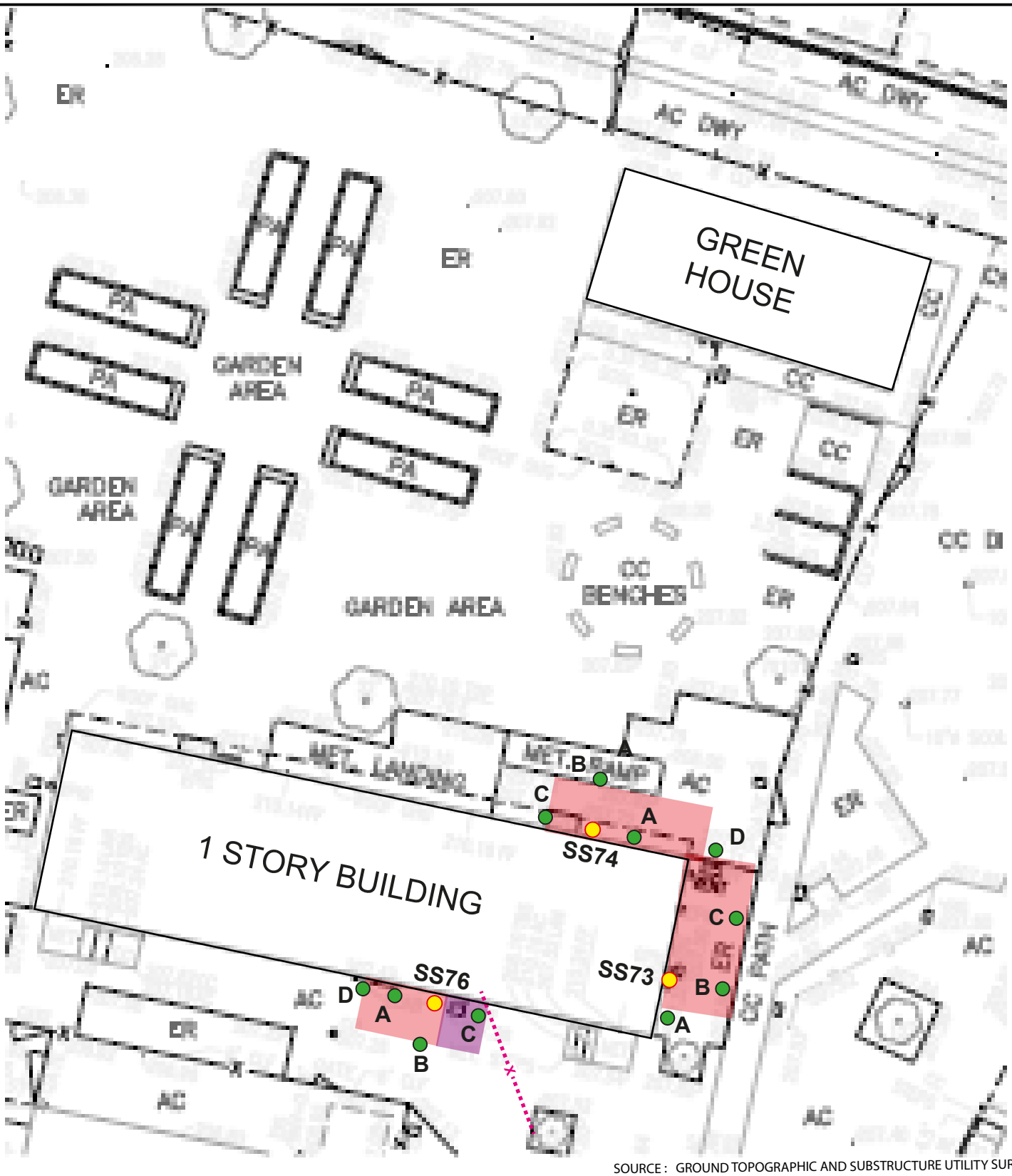

SOURCE : GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 6: Northwestern Step-Out Sample Locations and Area of Impacted Soil

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-16-6101

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
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SOURCE : GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

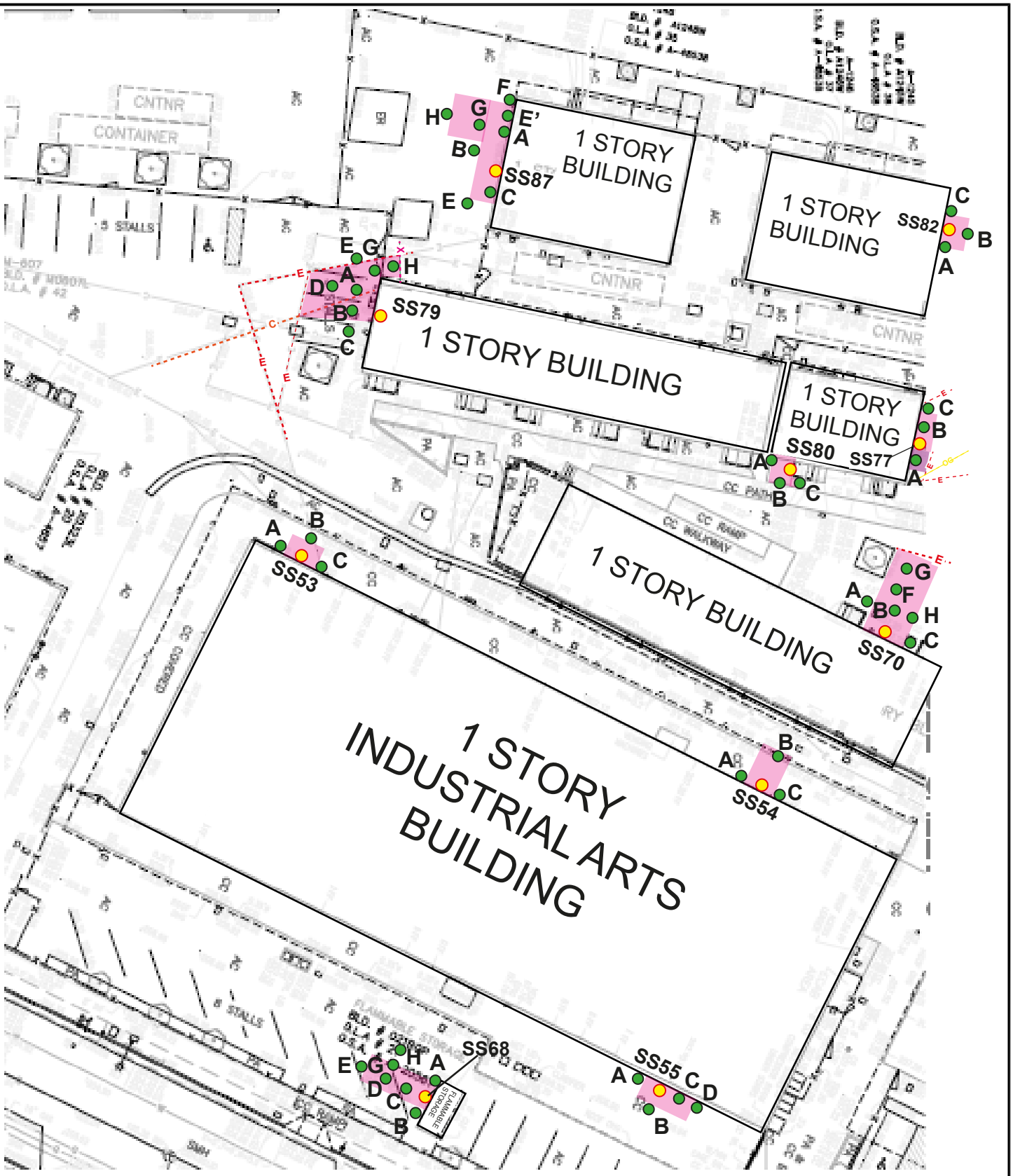
- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 7: Northeastern Step-Out Sample Locations and Areas of Impacted Soil (Homemaking Building)

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP APPROVED: EF SCALE: No scale DATE: March 2017
SITE: Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California	ALTA ENVIRONMENTAL
PROJ. NO.: LAUS-16-6101	3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com



LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 8: Northeastern Step-Out Sample Locations and Areas of Impacted Soil (Industrial Arts Building)

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-16-6101

ALTA ENVIRONMENTAL
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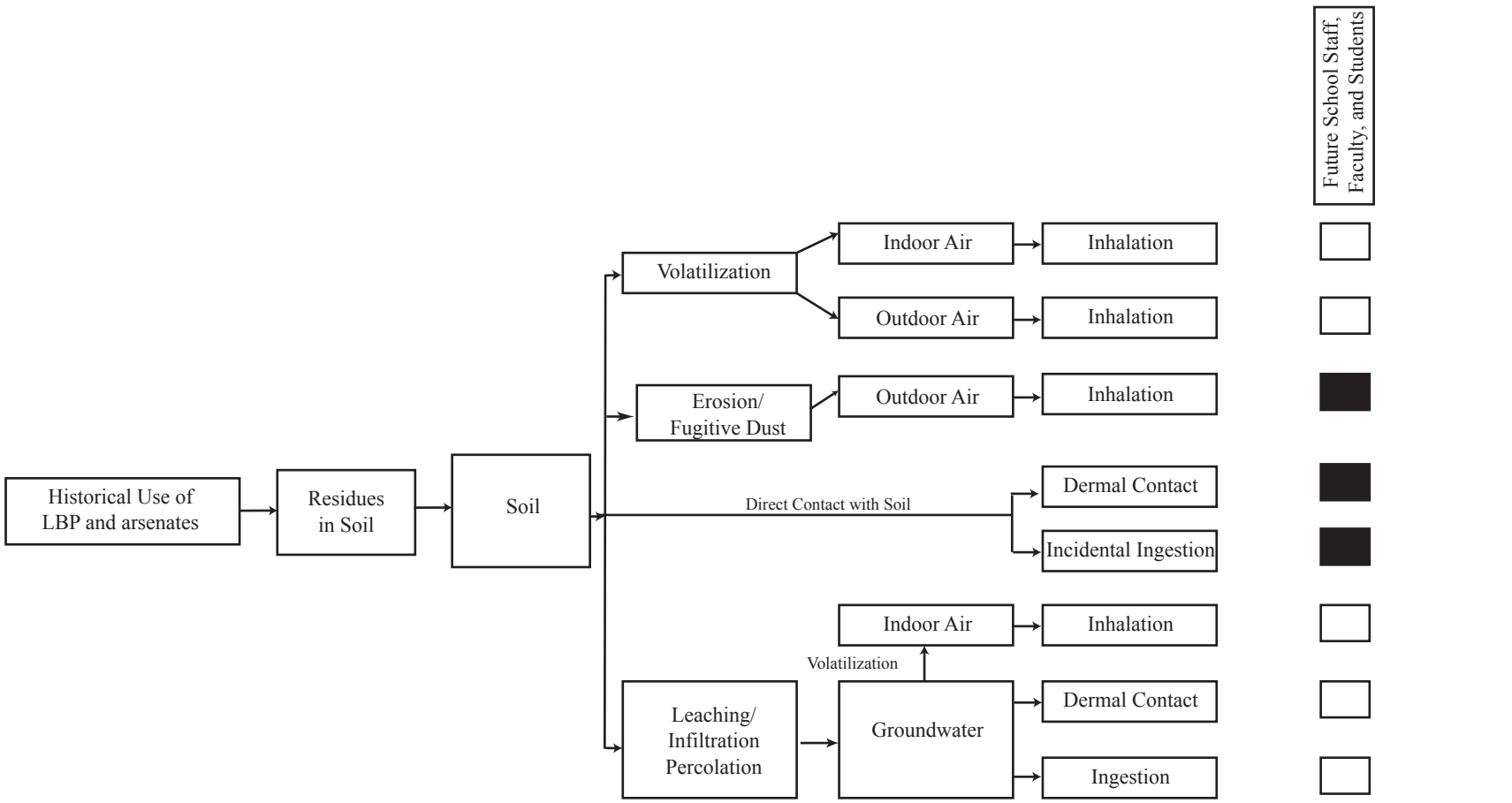
FIGURE 9- CONCEPTUAL SITE MODEL

Thomas Jefferson High School
Los Angeles Unified School District
Alta Environmental Project Number: LAUS-16-6101



Complete exposure pathway, which will be quantitatively evaluated in the risk assessment

Incomplete exposure pathway; no evaluation necessary

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Appendix A

PEA Scoping Document

PARTNER
Engineering and Science, Inc.

May 27, 2016

Mr. Dane Robinson
Los Angeles Unified School District, Office of Environmental Health and Safety
333 South Beaudry Avenue, 28th Floor
Los Angeles, California 90011

Subject: Preliminary Endangerment Assessment (PEA) Equivalent Work Plan
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California 90011
Partner Project No. 16-158197.2

Dear Mr. Robinson:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Preliminary Endangerment Assessment (PEA) Equivalent Work Plan* which was prepared based upon the results of a *Phase I Environmental Site Assessment* (Phase I ESA) report of the abovementioned address (the "subject property").

The PEA Equivalent Work Plan consists of a table detailing sampling, analyses, locations, and sample depths and a figure detailing sampling locations for the samples.

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (714) 397-3103.

Sincerely,

Gavin S. Jones, EP
Principal

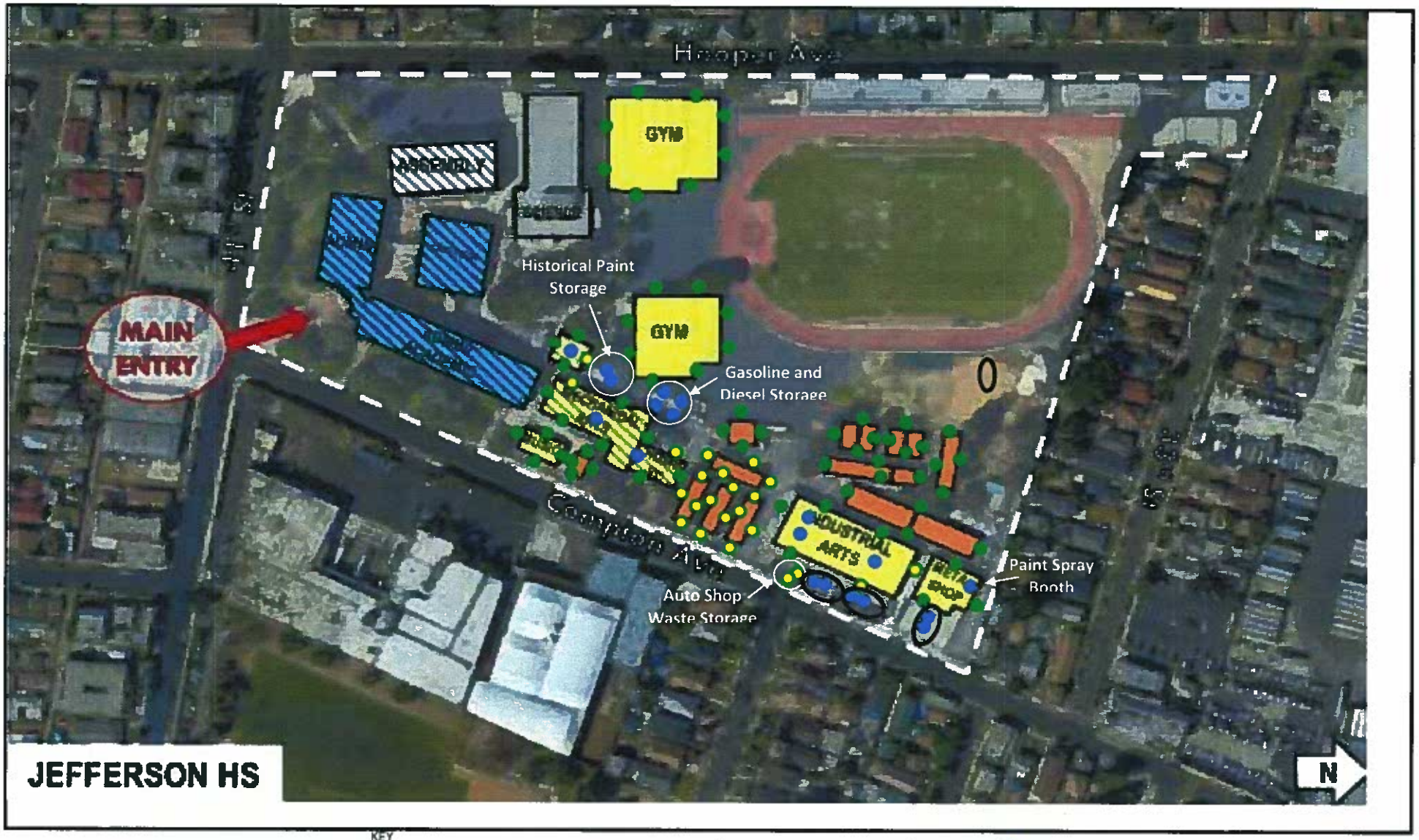
2154 Torrance Blvd. Suite 200, Torrance, CA 90501 ◊ Phone 310-765-7251 ◊ Fax 949-5340566

PEA EQUIVALENT SAMPLING TABLE
JEFFERSON HIGH
SCHOOL

1319 East 41st Street

Los Angeles, California 90011

Building or Area	Proposed Work	Construction Date	Concerns	Sampling Rationale	# Boring Locations	Analytical Methods	Sample Depths	Samples by analyses	
Boiler House	Removal	1916	Historical Agriculture	Perimeter	4	OCPs - 8081A	0-6", 1-1.5', 2-2.5'	3	12
			Historical Pesticides		4	Lead - 6010/6020, 7000/6200	0-6", 1-1.5', 2-2.5'	3	12
			Asbestos and Lead		4	Arsenic -	0-6", 1-1.5', 2-2.5'	3	12
(Historical Interior Storage)	Historical	(1920-1950s)	Fuel Oil, compressor oil, paint and solvent storage	Interior	2	TPHcc - 8015M, PCBs -8082, VOCs -8260B	0-6", 1-1.5', 2-2.5'	3	6
(Historical Paint Storage Building adjacent north)	Historical	(1920-1950s)	Paint Storage (North)	Exterior Historical	2	TPHcc - 8015M, VOCs -8260B	0-6", 1-1.5', 2-2.5'	3	6
Girls Gymnasium	Removal		Historical Agriculture	Perimeter	8	OCPs - 8081A	0-6", 1-1.5', 2-2.5'	3	24
			Historical Pesticides		8	Lead - 6010/6020, 7000/6200	0-6", 1-1.5', 2-2.5'	3	24
			Asbestos and Lead		8	Arsenic -	0-6", 1-1.5', 2-2.5'	3	24
Boys Gymnasium	Removal		Historical Agriculture	Perimeter	8	OCPs - 8081A	0-6", 1-1.5', 2-2.5'	3	24
			Historical Pesticides		8	Lead - 6010/6020, 7000/6200	0-6", 1-1.5', 2-2.5'	3	24
			Asbestos and Lead		8	Arsenic -	0-6", 1-1.5', 2-2.5'	3	24
Arts	Removal	1920s - 1960s	Historical Agriculture	Perimeter	8	OCPs - 8081A	0-6", 1-1.5', 2-2.5'	3	24
			Historical Pesticides		8	Lead - 6010/6020, 7000/6200	0-6", 1-1.5', 2-2.5'	3	24
			Asbestos and Lead		8	Arsenic -	0-6", 1-1.5', 2-2.5'	3	24
(Historical Printing, Industrial Arts, Auto Repair)			Motor oils/fluids, paint and solvents, printing inks and solvents, PCBs	Interior and Exterior	4	TPHcc - 8015M, PCBs -8082, VOCs -8260B	0-6", 1-1.5', 2-2.5'	3	12
Modular Classrooms between Arts and Industrial Arts (4)	Removal	1960s	Historical Agriculture	Perimeter to cover as a grid for former structures (potential sump/ clarifier/ septic	16	OCPs - 8081A	0-6", 1-1.5', 2-2.5'	3	48
		1920s-1950s former industrial arts	Historical Pesticides		16	Lead - 6010/6020, 7000/6200	0-6", 1-1.5', 2-2.5'	3	48
			Asbestos and Lead		16	Arsenic -	0-6", 1-1.5', 2-2.5'	3	48
			Motor oils/fluids, paint and solvents, printing inks and solvents, PCBs		16	TPHcc - 8015M, PCBs -8082, VOCs -8260B	0-6", 1-1.5', 2-2.5'	3	48
Industrial Arts	Removal	1960s	Historical Agriculture	Perimeter	9	OCPs - 8081A	0-6", 1-1.5', 2-2.5'	3	27
			Historical Pesticides		9	Lead - 6010/6020, 7000/6200	0-6", 1-1.5', 2-2.5'	3	27
			Asbestos and Lead		9	Arsenic -	0-6", 1-1.5', 2-2.5'	3	27
			Motor oils/fluids, paint and solvents, printing inks and solvents, PCBs	Interior and Targeted Concerns	4	TPHcc - 8015M, PCBs -8082, VOCs -8260B	0-6", 1-1.5', 2-2.5'	3	12
			In-Ground Lifts (2)		2	TPHcc - 8015M, PCBs -8082	0-6", 1-1.5', 2-2.5'	3	6
			Clarifiers (3)		6	TPHcc - 8015M, PCBs -8082, VOCs -8260B	1', 5', 10'	3	18
			Spray Booth		1	TPHcc - 8015M, VOCs -8260B, Metals - 6010B	0-6", 1-1.5', 2-2.5'	3	3
			Waste Storage (oil, fuel, coolant, solvent)		2	TPHcc - 8015M, PCBs -8082, VOCs -8260B, Metals - 6010B	0-6", 1-1.5', 2-2.5'	3	6
Modular Classrooms (7)	Removal	1960s	Historical Agriculture	Perimeter (4 per building)	28	OCPs - 8081A	0-6", 1-1.5', 2-2.5'	3	84
			Historical Pesticides		28	Lead - 6010/6020, 7000/6200	0-6", 1-1.5', 2-2.5'	3	84
			Asbestos and Lead		28	Arsenic -	0-6", 1-1.5', 2-2.5'	3	84
Fuel Storage Enclosures	Removal	1960s	Historical Agriculture	Perimeter (2 per building)	4	OCPs - 8081A	0-6", 1-1.5', 2-2.5'	3	12
			Historical Pesticides		4	Lead - 6010/6020, 7000/6200	0-6", 1-1.5', 2-2.5'	3	12
			Asbestos and Lead		4	Arsenic -	0-6", 1-1.5', 2-2.5'	3	12
			Gasoline and Diesel		4	TPHcc - 8015M, VOCs -8260B, Metals - 6010B	0-6", 1-1.5', 2-2.5'	3	12



KEY

- HISTORIC BUILDING
- BUILDING TO BE RENOVATED
- BUILDING TO BE REMOVED
- PORTABLE TO BE REMOVED

Sample Location for TPHcc, VOCs, Metals, and/or PCBs

Sample Location for OCPs, Lead, Arsenic

Sample Location for OCPs, Lead, Arsenic, TPHcc, VOCs, Metals, and/or PCBs

Clarifier Locations 0

ATTACHMENT: SAMPLE LOCATION MAP
Project No. 16-158197.2

PARTNER

Appendix B

Site Specific Health and Safety Plan (HASP)

HEALTH & SAFETY PLAN FOR IMPLEMENTATION OF PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)

Jefferson High School Comprehensive Modernization Project
1319 East 41st Street, Los Angeles, California

Prepared for

Los Angeles Unified School District
Office of Environmental Health & Safety

LAUS-16-6101
June 15, 2016

Eric Fraske Project Manager/Senior III	6/14/2016 Date

Alta Environmental
3777 Long Beach Boulevard, Annex Building
Long Beach CA 90807 United States of America

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Appendix K **HASP Acknowledgement Sheet**

1 APPLICABLE STANDARDS AND GOALS

1.1 Administration Information

Site Name:	Jefferson High School Comprehensive Modernization Project
Site Location:	1319 East 41st Street, Los Angeles, California
Project Manager:	Steven Morrill
Site Safety Officer:	Eric Fraske

1.2 General

This HASP was prepared in accordance with guidelines set forth in Title 8 of the California Code of Regulations, Section 5192 (8 CCR 5192). In addition, this HASP also describes the health effects and standards for known contaminants and the procedures designed to account for the potential for exposure to unknown substances.

1.3 Scope and Applicability of the Health and Safety Plan

This plan establishes requirements and provides guidelines for worker safety and hazard identification during the implementation of the Preliminary Environmental Assessment Equivalent (PEA-E) investigation (soil and soil gas sampling) at the Los Angeles Unified School District's (LAUSD's) Jefferson High School in Los Angeles, California (Figure 1, Appendix B). The purpose of this plan is to identify procedures for avoiding potential hazards from chemicals, equipment, or the environment, and for responding to serious injury or accident. The safety rules given in this plan cannot cover every eventuality. It is expected that all workers involved will exercise good judgment in safety matters, and each of LAUSDs contractors working on the Site will follow its own company health and safety plan. However, Alta Environmental will inform the contractors as soon as possible about environmental conditions monitored by us when these conditions (such as increased vapor concentrations) may require appropriate actions. Under no circumstances will Alta Environmental direct the contractors' operation of equipment and adherence to their specific health and safety requirements. These directions must be given by the contractors, either independent of or dependent on information about environmental conditions provided by us.

2 SITE DESCRIPTION

2.1 Local and Legal Description

The Jefferson High School Site is located at 1319 East 41st Street, Los Angeles, California, 90011. It is an active high school campus located on one single parcel of land (Los Angeles County Parcel Assessor's Number 5114-036-900) totaling approximately 18.15 acres in size.

The campus is developed with 13 permanent buildings, 15 modular buildings and 11 sheds.

2.2 Current and Historical Land Uses

2.2.1 Current Uses of the Site

The subject property is currently occupied by a single campus used by three schools: Thomas Jefferson High School, which has occupied the site since 1915/1916; and Student Empowerment Academy Charter and Nava College and Preparatory Academy, which have occupied the property since 2006 and 2014, respectively. The on-site buildings include a main administration/classroom building, auditorium, science building, cafeteria, two gymnasiums, a boiler house, arts and shops buildings, and former industrial arts buildings, as well as modular classroom buildings, storage sheds, greenhouse, covered structures, and ancillary structures (athletic, ROTC, Wellness Center, parent's center, etc.). The northwest quarter of the

2.2.2 Past Uses of the Site

According to available historical sources, the subject property was formerly undeveloped as early as 1850; used as part of a larger agricultural property from the 1880s through 1912, and used as a stadium for rodeos and livestock racing from the late 1800s to shortly before construction of the original school buildings beginning in 1915. With the exception of the boiler house, the original buildings were destroyed by an earthquake in 1933, and replaced with most of the current structures on the southern half of the subject property between 1935 and 1938. Additional buildings were completed in the 1960s and 1970s on the northeastern portion of the site and modular classrooms and storage structures have been also added since that time. The following evidence of a recognized environmental condition was identified during the previous Phase I ESA (Partner 2016a):

- The subject property operated on-site industrial arts classrooms including auto engine and auto body repair. The subject property is equipped with two below-grade hydraulic lifts located within the south end of the former industrial arts building and with a spray booth on the north end of the building. The lifts were reported installed during building construction in the 1960s and the spray booth was installed in the 1980s. Soil sampling in the area of the lifts and spray booth is recommended to evaluate the potential for releases of hydraulic oil, paints, or solvents to have impacted soil.

- Three oil/water separators (clarifiers) are located to the north and east of the industrial arts building and are connected to floor drains in the spray booth and in the repair areas. Soil sampling in the area of the clarifiers is recommended to evaluate the potential for releases of oil or other petroleum based substances, and solvents to have impacted soil.

- There is one recently used shop area in the industrial arts building that previously was used for metal, electrical, wood-working, and printing classrooms and historic shop areas located south of the current industrial arts building and in the original 1916 science and arts buildings that occupied the current location of the Academic Building prior to 1933. Based on the age of the historic shop buildings dating to 1920 or earlier, there is potential for septic tanks, sumps, or clarifiers to remain in these areas.

- Two hazardous materials storage enclosures containing 55-gallon drums of gasoline and diesel fuel are located to the west of the current arts building and one former hazardous waste storage enclosure used to store waste oil, filters, and coolant in 55-gallon drums is located to the east of the industrial arts building. These structures date to the 1950s or 1960s and potential exists for releases from these storage areas to have impacted soil.

- Two historical paint storage buildings were identified to the north and northwest of the boiler house. Potential exists that releases of paints or solvents in these locations has impacted soil,
- The boiler house building was constructed in 1916 and formerly housed fuel oil boilers and an incinerator. The potential exists that fuel oil ASTs and/or USTs were present beneath or near the building and that spillage or leakage from historical fuel storage has impacted soil.
- The northeastern portion of the subject property is used for a garden and appears to have been since prior to original site development in 1915/1916. Additionally, the center and the northeastern quarter of the property appear to have been used for agriculture until the 1950s or 1960s. Organochlorine pesticides may have been used historically in these areas.
- The potential exists for residual arsenates in soil and under pavement from application of arsenic based
- herbicides, based on experience at other LAUSD school sites of similar age.
- Due to the age of the on-site structures and historical use of the property for agriculture, lead, arsenic, and organochlorine pesticides in soil testing is recommended in accordance with the Department of Toxic Substances Control (DTSC)" Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and polychlorinated Biphyenyls from Electrical Transformers revised June 9, 2006."

2.3 Roles and Responsibilities

A number of roles are required for the safe and efficient operation of a field team. These roles include Project Manager, Health and Safety Manager, Field Team Leader, Site Safety Officer (SSO) and field personnel. A team member may take on more than one role, but the roles must be clearly assigned and must cover all positions required

2.4 Project Manager

The Project Manager is responsible for the overall operation of the project, including safety during field activities. Specific responsibilities include organization of all project work assignments, assigning personnel to specific duties, ensuring that the field team follows health and safety procedures approved by the Health and Safety Manager, and overall quality assurance/quality control of the project. He will also be responsible for the day-to-day progress of the project and will hold review and planning meetings as necessary with all technical staff, during which the current progress, problems encountered, and future direction will be discussed.

2.5 Health and Safety Manager

The Health and Safety Manager is responsible for the design and, with assistance from the Project Manager on personnel issues, implementation of the health and safety program for this project. This includes developing a site HASP, ensuring that all on-Site workers have met the necessary health and safety training requirements and are knowledgeable about the work they will perform, assigning a qualified

SSO to the field team, verifying compliance with all applicable safety and health requirements, and updating equipment and procedures based on new information gathered during the course of work.

2.6 Field Team Leader

The Field Team Leader is responsible for the operation of the field team. Responsibilities include organization of field activities, compliance with the provisions of the Site Work Plan, field documentation and record keeping, quality control of field activities, and communication with the Site's correspondent. The Field Team Leader, along with the SSO, must also ensure that subcontractors and outside observers comply with the HASP.

2.7 Site Safety Officer

The SSO works closely with the Site Manager to enforce the provisions of the HASP during field activities. The SSO is responsible for implementing the procedures stipulated in the HASP (Appendix H):

- Evaluating and amending the HASP daily to remedy deficiencies and post entry briefings;
- Determining the levels of personal protection based on observations or changing field conditions;
- Controlling Site entry and exit;
- Briefing the field team on the health and safety decontamination procedures required for various field activities;
- Monitoring the field team for signs of stress or exposure;
- Initiating emergency procedures, if necessary;
- Verifying that field team members have met the health and safety requirements for field activities;
- Being available to document and respond to any concerns or complaints made by personnel on-Site;
- Documenting unsafe work practices or conditions;
- Documenting any accidents or incidents that result in illness or injury to personnel; and
- Issuing stop work notices if site conditions become unsafe, with conference with the Project Manager and/or the Health and Safety Manager.

2.8 Field Technicians

The field technicians are responsible for complying with the HASP, notifying the SSO of hazardous or potentially hazardous conditions, and carrying out specialized tasks during field operations. These tasks include inspecting, calibrating, maintaining, and using field equipment; performing site characterization activities; maintaining decontamination stations; preparing and decontaminating sampling equipment; collecting and preserving samples; and packaging and shipping samples according to proper chain-of-custody procedures.

3 TRAINING AND MEDICAL MONITORING REQUIREMENTS

Staff and subcontractors participating in the fieldwork must have completed a 40-hour health and safety training course (8 CCR 5192(e)) as appropriate for their particular tasks and have annual refresher training. Before personnel arrive on-Site, each employer will be responsible for certifying that its employees meet the Cal/OSHA training requirements.

Each employee will be familiar with the requirements of the site safety and health plan, and will participate in site activity and safety briefings. Medical surveillance is conducted as a routine program, which meets the requirements of 8 CCR 5192 (f); the medical surveillance program is detailed in Appendix F. There will not be any special medical tests or examinations required for staff involved in this project.

All personnel will be trained to operate their respective equipment, including respiratory protection if site conditions exist where respirators are needed. Under no circumstance will untrained or unqualified personnel operate equipment.

4 DESCRIPTION OF FIELDWORK

The implementation of the PEA-E, as outlined in the *PEA-E Work plan* by Partner Engineering and Science, Inc. (Partner), dated May 27, 2016 (*PEA-E Work Plan*; Partner, 2016b), includes soil matrix sampling. Alta Environmental will provide oversight support and act as the On-Site representative to the District, and as part of the Quality Assurance/Quality Control (QA/QC) process. During the soil matrix sampling, an environmental contractor field representative will be on-Site. The activities that would be conducted to implement this PEA-E are summarized below.

4.1 Field Work Notices

A notification of the PEA-E investigation will be prepared and distributed in accordance with the DTSC guidelines for informing the community surrounding the Site. Approximately three days prior to conducting the field investigation, a neighborhood notification flyer detailing the proposed PEA-E field activities and contact information will be prepared and distributed to the onsite staff and students and any residences and businesses within line of sight of the work activities. The notification flyer will be prepared in both English and Spanish (one-page front and back). In addition, laminated copies of the notice will be posted at conspicuous locations along the permitter of the Site. Alta has assumed 2,500 notices will be distributed with 2,300 mailed to parents of student.

4.2 Geophysical Survey

Prior to any intrusive work and on the first day of field work, a geophysical survey will be conducted at each of the planned soil boring and sampling locations, to locate and help identify subsurface lines and other features/obstructions. The survey will include the use of ground-penetrating radar and other specialized utility-locating equipment. Detected subsurface features will be marked on the ground with chalk-based spray paint in a color code established by the American Public Works Association.

4.3 Concrete Coring

Concrete coring will be conducted at sample locations that are covered by asphaltic concrete (AC) paving to ensure a smooth cutting edge, and limit impacts to the paved surfaces onsite.

4.4 Shallow Soil Matrix Sampling and Analysis Program

The shallow soil sampling program will consist of drilling a total of 107 shallow soil borings (SS1 through SS107). The proposed shallow soil boring locations are presented in Figure 1 of the *PEA-E Work Plan*.

A direct-push drill rig (or hand augering tools where access is limited) will be used to drive continuous soil cores to the specified target depth of 2.5 feet below ground surface (bgs), using a core sampler lined with acetate sleeves. Discrete soil samples will be cut from the sampling sleeves, at the specified sampling depths of 0-0.5 feet bgs, 1-1.5 feet bgs, and 2-2.5 feet bgs and retained for subsequent laboratory analysis or archiving as presented in Table 1 of the *PEA-E Work Plan*. As indicated in Table 1 of the *PEA-E Work Plan,* soil samples in the vicinity of the clarifiers and hydraulic lifts will be collected at the depths of 0-0.5 feet bgs, 5-5.5 feet bgs, and 10-10.5 feet bgs. The sample containers will then be covered with Teflon sheeting and sealed with polyurethane caps, labelled, and placed in a chilled ice-chest for transport to an offsite laboratory.

4.4.1 Soil Matrix Laboratory Analysis

Offsite chemical soil analyses will be performed by an analytical laboratory accredited by the California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP), and in accordance with the analytical program for the shallow soil samples as listed in Table 1 of the *PEA-E Work Plan*. The soil samples designated for laboratory analysis will be variously analyzed for the following parameters and methods:

- Arsenic by EPA Method 6020
- Lead by EPA Method 6010B
- Organochlorine Pesticides (OCPs) by EPA Method 8081A
- CA Title 22 Metals by EPA Method 6010B/7471A
- Volatile organic compounds (VOCs) and fuel oxygenates by EPA Method 8260B/5035
- Total petroleum hydrocarbons as gasoline (TPH-g) by EPA Method 8015/5035
- Total petroleum hydrocarbons as diesel (TPH-d), and oil (TPH-o) by EPA Method 8015
- Polyaromatic hydrocarbons (PAHs) by EPA Method 8270 SIM

In addition, 10% of the shallow soil samples collected and analyzed that are not already scheduled for PCB analysis, will be also be analyzed for PCBs by EPA Method 8082.

4.5 Equipment Decontamination

Equipment used during field investigations and sampling will be decontaminated using a three-bucket wash. All equipment that comes into contact with potentially contaminated soil or water will be decontaminated consistently to assure the quality of samples collected. Decontamination will occur prior to

and after each use of a piece of equipment. All sampling devices used will be decontaminated using the following procedures:

- Non-phosphate detergent and tap water wash, using a brush if necessary,
- Tap water rinse,
- Initial deionized/distilled water rinse, and
- Final deionized/distilled water rinse.

Equipment will be decontaminated onsite in a pre-designated area on plastic sheeting, and clean bulky equipment will be stored on plastic sheeting in uncontaminated areas. Decontamination water produced will be placed in Department of Transportation (DOT)-approved 55-gallon drums and labelled as decontamination water with the date and boring numbers.

4.6 Quality Assurance/Quality Control

The quality assurance/quality control (QA/QC) procedures for this project require that the data meet minimum requirements for precision, accuracy, completeness, representativeness, and comparability. The following QA/QC procedures will be followed during sampling and analysis:

- Duplicate soil samples will be collected and analyzed at a frequency of approximately 10 percent of the primary samples. The duplicate soil sample will be analyzed for the same parameters as the primary sample.
- One trip blank sample will be prepared and submitted with each shipment of VOC soil samples to the offsite analytical laboratory for analysis.
- Equipment blank samples will be collected daily for each type of soil sampling equipment used, and analyzed for the same parameters as the soil samples being analyzed on that day.
- Samples will be transferred under chain-of-custody control and will be subject to the laboratory's conventional QA/QC analytical procedures, including method blanks, laboratory control samples, and sample duplicate analyses.

4.7 Management of Investigative-Derived Waste

Investigation-derived waste (IDW) generated during the PEA Equivalent field sampling is expected to consist of soil cuttings and decontamination water. All IDW will be collected in 55-gallon DOT-approved steel drums, labelled, and stored in a secure location onsite pending waste characterization. Waste profile samples will be collected at a rate of one sample per 55-gallon drum (soil or water) generated during the investigation, and analyzed for TPH-g, TPH-d, and TPH-o by EPA Method 8015, CA Title 22 metals by EPA Method 6010B/7471A, and OCPs by EPA Method 8081A. Alta estimates that no more than one soil drum and one water drum will be generated during the PEA Equivalent investigation, and will be disposed of as non-hazardous waste.

Based on the analytical results, the IDW will be lawfully disposed of in coordination with LAUSD at an appropriate off-site facility after completing the field investigation.

5 CHEMICAL HAZARDS

The presence of chemical hazards at the Site has been confirmed; however, the primary suspected potential constituents of concern associated with the Site are Title 22 Metals, lead, arsenic, OCPs, PCBs, VOCs, TPH-g, TPH-d, and TPH-o in soil. The list of chemicals of concern for the Site will be reassessed, as more data becomes available. Brief toxicological profiles of the major constituents of concern are included below and in Appendix G. Chemical and physical characteristics of these compounds are presented in Table 1 (Appendix A).

Potential exposures to these chemicals during field activities include the following:

- Dermal contact with and accidental ingestion of potentially contaminated rinse liquid and soil residue during decontamination and sampling; and
- Splash hazards during decontamination.

To protect workers from eye and skin contact and skin absorption, PPE will be used as outlined in Section 8.

5.1 Hazard Assessment

A literature review was conducted to find ionization potentials (IPs), exposure limits, and concentrations immediately dangerous to life and health (IDLH) for the constituents of concern in environmental media at the Site. Exposure limit data are expressed as 8-hour time-weighted averages (TWAs). TWAs promulgated in OSHA regulations are referred to as permissible exposure limits (PELs). The American Conference of Governmental and Industrial Hygienists adopt values for exposure limits that are referred to as threshold limit values (TLVs).

Materials	Route of Exposure	Symptoms	Target Organs
Total petroleum hydrocarbons (TPH) – gasoline	Inhalation/ingestion/ skin absorption/skin or eye contact	Dizziness, drowsiness, headache, nausea; irritation of the eyes, nose, throat; dry cracked skin	Skin, eyes, respiratory system, CNS
TPH-diesel	Inhalation, skin and/or eye contact	Eye irritation, pulmonary function changes	Eyes, respiratory system
TPH-heavy hydrocarbons	Inhalation/ingestion/ skin absorption/skin or eye contact	Dizziness, drowsiness, headache, nausea; irritation of the eyes, nose, throat; dry cracked skin	Skin, eyes, respiratory system, CNS, liver, kidneys

Materials	Route of Exposure	Symptoms	Target Organs
Benzene	Inhalation/absorption/Ingestion/ skin or eye contact	Irritated eyes, skin, nose and respiratory system; dizziness; headache, nausea, staggered gait; anorexia and lassitude; dermatitis; bone marrow depression; carcinogen	Eyes, skin, respiratory system, blood, CNS, bone marrow (leukemia)
Lead	Inhalation/ingestion/ skin or eye contact	Lassitude, insomnia; facial pallor; anorexia, low weight, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremors; paralysis in the wrists, ankles; encephalopathy; kidney disease; irritation of the eyes; hypotension	Eyes, GI tract, CNS, kidneys, blood, gingival tissue
Arsenic	Inhalation/absorption/ contact/ ingestion	Ulveration of nasal septum, dermatitis, FI disturbances, respiratory irritation, hyper pigmentation of the skin	Liver, kidneys, skin, lunch, lymphatic system
PCBs	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, chloroacne; liver damage; reproductive effects; [potential occupational carcinogen]	Skin, eyes, liver, reproductive system

6 PHYSICAL HAZARDS

Field personnel should be aware of and act to minimize dangers associated with physical hazards typically encountered during site activities. These hazards include heat-related illnesses, uneven terrain, slippery surfaces, and lifting. Personnel will walk at all times. Running greatly increases the probability of slips, trips, and falls.

6.1 Heat Stress

The potential for heat stress is higher on this site during the summer months, given the warm southern California climate and potential use of protective garments. Heat stress potential during the remaining seasons is unsystematic. Heat stress and heat stress monitoring are discussed in Appendix E.

Heat illness prevention must comply with 8 CCR §3395.

6.2 Severe Weather

Fieldwork shall not be conducted when lightning can be seen or thunder heard from the work area. When lightning and/or thunder occur, employees are to cease work, perform emergency personal and equipment decontamination as needed, and then seek shelter.

During extreme weather conditions, the Field Team Leader shall use his/her best judgment and has the authority to stop fieldwork or dismiss workers for the day. Examples of conditions that may warrant work stoppage include: tornado warnings, high winds, hail, flooding, and ice storms.

Field operations may be conducted during the time of year when Santa Ana winds start blowing. A field meteorological station will be on-Site to monitor wind speed, temperature and relative humidity. If sustained wind speed exceeds 25 miles per hour (mph), fieldwork will stop.

6.3 Heavy Equipment

Any equipment defects that affect safety will be corrected by the LAUSD's contractor in a timely manner so that a personnel hazard is not created. When defects make continued operation hazardous to personnel, the defective equipment will be taken out of service and placed in the designated area for repair. Once tagged out, continued use of equipment is prohibited until the defects are repaired. Defects on self-propelled mobile equipment affecting safety that are not corrected immediately will be reported to the Field Team Leader. The Field Team Leader will keep a log that will include the date the defect was reported, the equipment's identification, a description of the defect, and the date of repair.

Equipment repairs or maintenance will be performed only after the power is off, and the equipment is blocked against hazardous motion. Equipment motion or activation is permitted to the extent that adjustments or testing cannot be performed without such motion or activation, provided that people are effectively protected from hazardous motion.

Operators of self-propelled mobile equipment will maintain control of the equipment while it is moving. Operating speeds will be consistent with conditions of roadways, grades, clearances, visibility, traffic, and the type of equipment used. Equipment will be operated at speeds that permit stopping in no more than half the visibility distance.

People will not be transported

- in or on dippers, clamshells or buckets,
- in beds of mobile equipment,
- atop loads in mobile equipment,
- outside cabs, equipment operator's stations, or beds of mobile equipment, and
- to or from work areas in overcrowded equipment (i.e., the vehicle will not carry more people than the number of seats on that vehicle).

All self-propelled mobile equipment will be equipped with a service brake system capable of stopping and holding the equipment with its typical load on the maximum grade it travels (does not apply to equipment not originally equipped with brakes). If equipped, the parking brake on self-propelled mobile equipment will be capable of holding the equipment under typical load condition on the maximum travel grade.

All braking systems installed on self-propelled mobile equipment will be maintained in a functional condition.

Front-end loaders and bulldozers should have protection from falling objects.

Seat belts meeting the requirements of SAE J386, *Operator Restraint Systems for Off-Road Work Machines,* 1985, will be provided and worn in haulage trucks. Seat belts will be maintained in functional condition and replaced when necessary to assure proper performance.

Mobile equipment will not be left unattended unless the controls are placed in the park position, the parking brake, if provided, is set, and the ignition turned off.

People will not work on top of, under, or from mobile equipment in a raised position until the equipment has been blocked or secured to prevent it from rolling or falling accidentally.

Care will be taken to locate all overhead power lines before sampling activity begins. Under no circumstances should any part of the mobile equipment be positioned within the minimum clearance from exposed and energized electrical wires. The equipment operator will ensure there is sufficient overhead clearance (i.e., no part of the equipment will hit or touch any overhead obstruction when raised nor will it hit or touch any object while being raised) before raising any part of the equipment through careful preplanning.

This HASP is not designed to protect personnel entering sampling areas requiring protective systems. If it becomes necessary for someone to enter such an area, the Project Manager must request that the SSO develop an acceptable entry procedure.

6.4 Electrocution

Electrical power lines above (overhead) and below ground will be identified at the Site before to the start of any activities to prevent electrocution. Minimum safe distance will be established by the SSO in areas of overhead and underground power lines. Subcontracted utility locating services will be used as necessary to locate or confirm the presence of suspected underground utilities at drilling or boring locations.

6.5 Slippery Terrain, Slips, Trips and Falls

Slippery and uneven terrain is common and may increase the risk of injuries. Personnel shall wear the appropriate foot protection while on-Site. The SSO will monitor site work surfaces for potential trip and fall hazards. Overhead hazards consist of potential contact with falling objects, rigging equipment, or other items in use at the Site. Hard hats are required at all times when at the Site.

6.6 Noise

Previous surveys indicate that heavy equipment such as drilling equipment may produce continuous and impact noise at or above the action level of 85 dBA. All Site personnel within 25 feet of operating equipment, or near an operation that creates noise levels high enough to impair conversation, shall wear hearing protective devices (either muffs or plugs). Personnel will wash their hands with soap and water prior to inserting earplugs to avoid initiating ear infections.

7 PERSONAL PROTECTIVE EQUIPMENT (PPE)

The level of employee protection for the work to be completed during site activities was determined by researching site conditions, reviewing planned activities, and identifying site-specific physical and chemical hazards.

7.1 Selection of Personal Protective Equipment

It is important that specified PPE projects against known and suspected Site hazards. Protective equipment is selected based on the types, concentrations, and routes of personal exposure that may be encountered. In situations where the types of materials and possibilities of contact are unknown or the hazards are not clearly identifiable, a more subjective determination must be made about the PPE required, and greater emphasis is placed on experience and sound safety practices. As discussed above, PPE for Site workers will be based on Site history and on the activities to be performed.

The initial level of PPE for all site work will be modified Level D, which consists of the following:

- Chemical protective clothing (such as Tyvek)
- Steel-toed boots
- Safety glasses
- Nitrile inner and outer gloves
- Hard hats
- Safety reflective vests
- Ear plugs (when heavy equipment is operating)
- Disposable boot covers

PPE requirements are subject to change as Site information is updated or changes. Work will stop until the HASP is updated if the following Site conditions change and warrant upgrade to Level C (including: air purifying respirator (NIOSH approved), hooded chemical-resistant clothing, steel-toed work boots with chemical-resistant boot covers, and hard hat, face shield and chemical resistant gloves) or higher PPE.

- Change in weather conditions
- Encountering of contaminants other than those previously identified
- Change in ambient levels of contaminants

- Change in work scope that affects the degree of contact with contaminants

8 ILLUMINATION

Nighttime work activities are not anticipated; however, if nighttime work becomes necessary, illumination at the Site will be supplemented in order to ensure safe working conditions. Supplemental lighting will be provided by mobile generator-powered units.

9 STANDARD OPERATING PROCEDURES

The standards regarding Safety Rules and Personal Hygiene and Use and Decontamination of PPE are detailed in Appendices C and D, respectively.

9.1 Daily Safety Meetings

The SSO will conduct a daily safety meeting to discuss any changes in safety status, safety violations and administrative actions, work assignments, or modifications of procedures with all on-Site field personnel. This safety meeting will be scheduled as the first activity of each day. An alternate person may be designated to conduct the briefing at the discretion of the SSO. All personnel present will sign the Daily Attendance sheet.

9.2 Daily Debriefing Meetings

At the end of each workday at the Site, the SSO will discuss with the Field Team Leader or the Project Manager, daily progress, technical problems, administrative resolution of disciplinary actions, and monitoring and analytical findings.

In the event that an emergency occurs or other accident that requires immediate attention, and additional safety meeting may be conducted. Non-routine meetings will address any Site changes that have safety implications, which must be immediately addressed before work can continue.

9.3 Administrative Action

Observed violations of safety procedures can result in immediate removal of the violator from the Site. The Project Manager will take administrative action on each violation. In the event of a violation, the nature of the violation, the past record of the violator, and any extenuating circumstances will be reviewed. The SSO and Health and Safety Officer will provide a recommendation to the Project Manager regarding administrative actions such as retraining and reassignment, change in clearance status, or permanent dismissal from the Site.

9.4 Standard Operating Procedures

The following SOPs are to be utilized on-Site:

- No eating, drinking, smoking or applying lip balm in the exclusion zone.
- The buddy system shall be used for all work on-Site.

- Site security issues will be implemented to ensure that only authorized personnel have access to the Site work zones.
- All personnel and equipment will be decontaminated prior to exiting the Site.
- Proper PPE, appropriate for the work zone conditions, shall be utilized at all times.

10 CONFINED SPACES

According to the 8 CCR §5157(b), a confined space is defined as a space that (1) is large enough and so configured that an employee can bodily enter and perform the assigned work; (2) has limited or restricted means of entry or exit (i.e., one exit); and (3) Is not designed for continuous employee occupancy.

It is not anticipated that the Site investigation activities will include confined space entry.

11 NOISE MONITORING

Hearing protection devices (HPDs) (either muffs or plugs) will be available on-Site at all times. Use of HPDs will be required whenever the noise level equals or exceeds 85 dBA; in general, they will be used whenever equipment is operated. Field technicians will be informed on the proper use, maintenance and storage of HPDs. Engineering controls will be utilized as necessary to ensure that noise levels generated by work do not impact residences adjacent to the Site.

12 DECONTAMINATION

Decontamination procedures as provided in Appendix D, based on Level D protection, will consist of the following:

- Removing chemical protective clothing and depositing it in a designated container
- Removing gloves and depositing them in a designated container
- Disposing of gloves and other disposable PPE in a designated container
- Washing hands and face, and preferably showering as soon as practical
- All disposable clothing and plastic sheeting used during activities will be properly disposed of in accordance with all applicable federal, state and local regulations.

13 SANITATION

Restrooms shall be available in an appropriate quantity consistent with OSHA regulations.

14 EMERGENCY SUPPLIES

A fire extinguisher will be available on-Site during field activities. Field technicians will be informed about the proper use of fire extinguishers.

A first-aid kit will also be available on-Site during field activities.

15 EMERGENCY INFORMATION

All hazardous waste Site activities present a risk to on-Site personnel. During routine operations, risk is minimized by establishing good work practices, staying alert, and using proper PPE. Unpredictable events such as physical injury, chemical exposure, or fire may occur and must be anticipated.

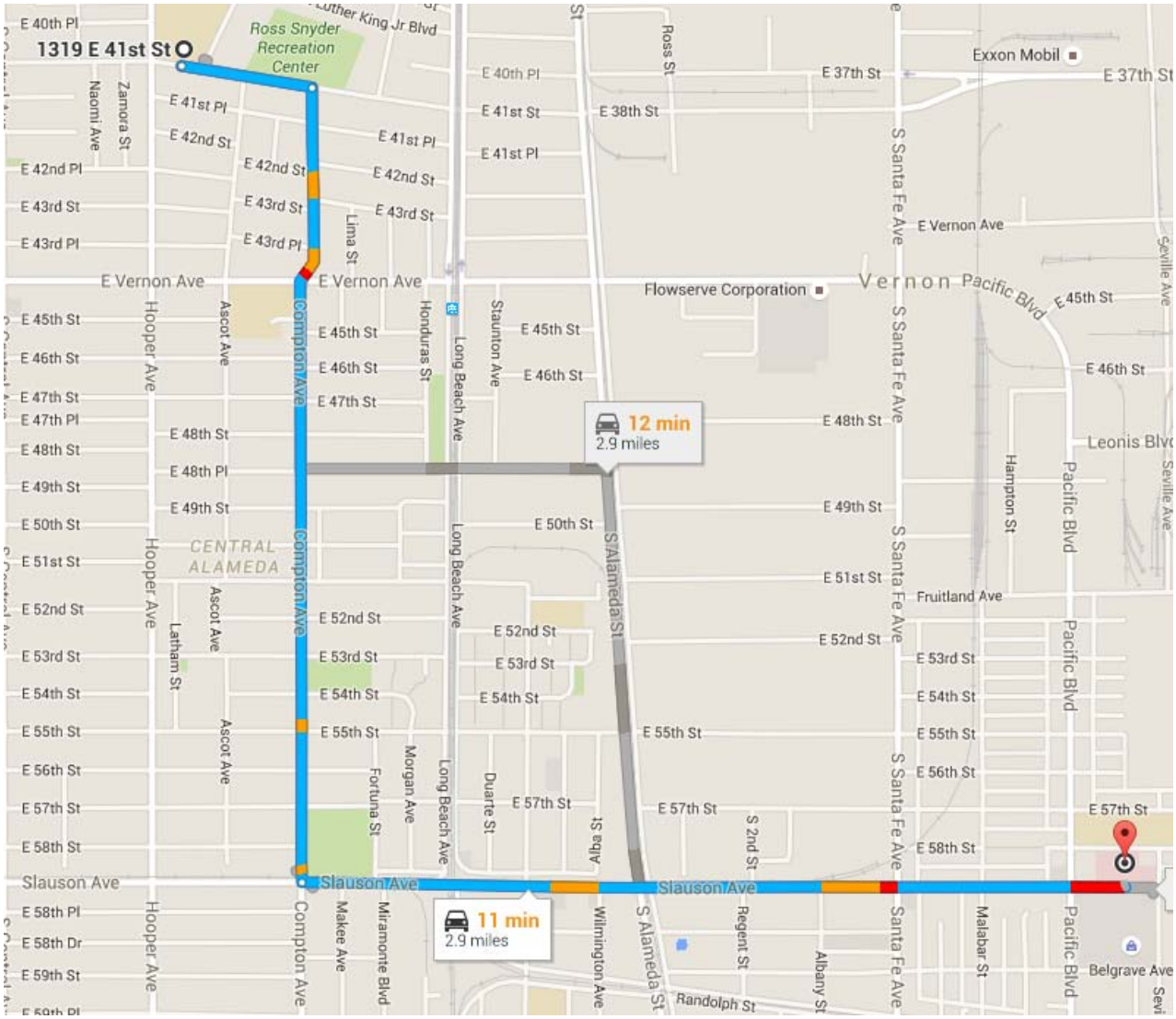
If any situation or unplanned occurrence requires outside emergency assistance, immediately call the appropriate contact from the list provided in Section 19.1, below.

15.1 Emergency Contact Information

Emergency response shall be addressed according to the requirements of Title 8 CCR 5192. If it is determined that the emergency could threaten human health or the environment, the incident will be reported to the proper agencies:

Nearest Hospital Address (see map on following page):	Community Hospital of Huntington Park 2623 E. Slauson Avenue, Huntington Park, California 90255
Phone Number:	(323) 583-1931
Emergency Response Number:	911
Department of Toxic Substances Control 8800 Cal Center Drive Sacramento, California 95826-3268	(916) 255-3545 Fax: (916) 255-3785
Other Ambulance, Fire, Police, or Environmental Emergency Resources:	911
Other Entity: Address: Phone Number:	CHEMTREC (Chemical Transportation Emergency Center) 2501 M Street NW Washington, DC 20037 800.424.9300

Directions to the Community Hospital of Huntington Park:



HEAD EAST ON EAST 41ST STREET TOWARD COMPTON AVENUE	0.2 MI
TURN RIGHT ONTO COMPTON AVENUE	1.3 MI
TURN LEFT ONTO E SLAUSON AVENUE (DESTINATION WILL BE ON THE RIGHT)	1.4 MI

15.2 Emergency Procedures

Emergency procedures are to be followed if any of the following situations develop on-Site:

- Any member of the field crew is involved in an accident or experiences any adverse effects or symptoms of exposure while on-Site.
- A condition is discovered that suggests the existence of a situation more hazardous than anticipated.

The following emergency procedures should be followed:

- Site work area entrance and exit routes will be planned and emergency escape routes delineated by the SSO.
- If any member of the field team experiences any effects or symptoms of exposure while on the scene, the entire field crew will immediately halt work and act in accordance with the instructions provided by the SSO.
- For applicable Site activities, wind indicators visible to all on-Site personnel will be provided by the SSO to indicate possible routes for upwind escape.
- Identifying any conditions that would suggest a situation more hazardous than anticipated will result in the suspension of work until the SSO has evaluated the situation and provided the appropriate instructions to the field team.
- If an accident occurs, the Field Team Leader is to complete an Accident Report Form (Appendix J) for submittal to the appropriate company official.
- If a member of the field crew suffers a personal injury, the SSO will call 911 (serious injury) to alert appropriate emergency response agencies or administer on-Site first aid (minor injury) as the situation dictates. An Accident Report Form (Appendix J) will be completed for any such incident.
- If a member of the field crew suffers a chemical exposure, the affected areas should be flushed immediately with copious amounts of clean water. If the situation dictates, the SSO should alert appropriate emergency response agencies, or personally ensure that the exposed individual is transported to the nearest medical treatment facility for prompt treatment. An Accident Report Form (Appendix J) will be completed for any such incident.
- In the event of a site emergency requiring evacuation, all personnel will evacuate to a pre-designated area located a safe distance from any health or safety hazard (typically the site office, unless conditions dictate otherwise) and safely away from the area of influence. The primary and secondary meeting area will be established on a site-specific basis during the morning safety briefing. A head count will be completed by the Site Supervisor at the meeting area and further directions or response discussions coordinated at that point. During any site evacuation, all employees shall be instructed to observe wind direction indicators. During evacuation, employees will be instructed to travel upwind or crosswind of the area of influence. The SSO will provide specific evacuation instructions, via the site emergency radio if necessary, to site personnel regarding the actual site conditions.
- A communication network must be set up to alert site personnel of emergencies and to summon outside emergency assistance. Where voice communication is not available in the alarm system (i.e.,

sirens, horns, etc.) should be set up to alert employees of emergencies. Radio communication may also be used to communicate with personnel in the exclusion zone. Where phone service is not readily available, radios or portable phones should be used to communicate with outside agencies. Site personnel should be trained to use the site emergency communication network. Emergency phone numbers shall be posted at the phone or radio used for outside communication. The SSO is responsible for establishing the communication network prior to the beginning of work, and for explaining it to all site personnel during the site safety meeting. The following hand signals will be used where voice communications are not available in case of an emergency:

Gesture	Meaning
Hand clutching throat	Out of air/can't breathe
Hands on top of head	Need assistance
Thumbs up	OK/I'm all right/I understand
Thumbs down	No/negative
Arms waving upright	Send back support
Grip partner's wrists	Exit area immediately

16 AUTHORIZED CHANGES TO THE HEALTH AND SAFETY PLAN

Changes to the HASP are to be documented by completing a Modification of Site Health and Safety Plan form. This completed form must be signed by the SSO, the Health and Safety Manager, and the Project Manager. A copy of each completed form is to be included with each copy of the HASP and made a part of the project files.

17 REFERENCES

1. Partner Engineering and Science, Inc. (Partner), 2016a, *Phase I Environmental Site Assessment (ESA), Thomas Jefferson Highs School, 1319 E. 41st Street, Los Angeles, California.* Partner Project No. 16-158197.1; May 27, 2016.
2. Partner, 2016b, *PEA-E Work Plan, Thomas Jefferson High School, 1319 E. 41st Street, Los Angeles, California,* Project No. 16-158197.2, May 27, 2016.
3. U.S. Centers for Disease Control, NIOSH Pocket Guide to Chemical Hazards, Washington, DC, 2006.

18 HASP ACKNOWLEDGEMENT

All Alta Environmental employees and subcontractors at the Site must review this HASP with the SSO and sign the acknowledgement forms in Appendix K.

Appendix A

Tables

Table 1: Hazard Monitoring

Contaminants of Concern

Contaminants of Concern	Routes of Exposure	IDLH	PEL (TWA)	STEL (TWA)	% LEL	Odor Threshold	Odor Description
Benzene	I, A, C	500 ppm	1 ppm	5 ppm	1.1%	1.5 ppm	Solvent-like
TPH-gasoline	I, A, C	NA	NA	NA	1.4%	0.1 – 1.1 ppm	characteristic
TPH-diesel	I, C	NA	NA	NA	0.3%	NA	characteristic
TPH-heavy hydrocarbons (oil mist)	I, C	2500 mg/m^3	5 mg/m^3	NA	NA	NA	Characteristic petroleum / lubricating oil
PCBs (Aroclor)	I, A, C	5 mg/m^3	0.5 mg/m^3	NA	NA	NA	NA
Arsenic	I, C	5 mg/m^3	0.3 mg/m^3	NA	NA	NA	NA
Lead	I, C	100 mg/m^3	0.05 mg/m^3	NA	NA	NA	NA

TWA = Time-weighted average (concentration should not be exceeded during an 8-hour workday during a 40-hour work-week)

STEL = Short-term exposure limit (15 -minute TWA exposure that should not be exceeded at any time during a workday)

IDLH = Immediately dangerous to life or health concentration

NA = Not Applicable

I = Inhalation/ingestion

A = Absorption

C = Contact

Appendix B

Figures

Appendix C

Safety Rules and Personal Hygiene

Appendix C: Safety Rules and Personal Hygiene

1. Remove all facial hair that interferes with a satisfactory fit of respiratory protective equipment.
2. Do not wear contact lenses while wearing full-face respirators.
3. Do not take prescribed drugs unless specifically approved by a physician. Notify the SSO that prescription medication is being taken.
4. In the work zone, do not eat, drink, smoke, chew gum or tobacco, or engage in any other practice that increases the probability of hand-to-mouth transfer or ingestion of material.
5. Wash hands and face thoroughly after leaving the work area and before eating, drinking, or any other activities.
6. Thoroughly wash entire body as soon as possible after removing Level C protective garments.
7. Whenever possible, avoid contact with contaminated or suspected contaminated surfaces.

Appendix D

Field Standard Operating Procedures for Use and Decontamination of Personal Protective Equipment

Appendix D: Field Standard Operating Procedures for Use and Decontamination of Personal Protective Equipment

1. Park vehicles outside the site boundaries.
2. During the pre-work safety meeting, the SSO will provide the following information:
    A. a description of the Site and known problem areas
    B. the level of protection required
    C. emergency medical information
    D. the locations of the first aid kit and fire extinguisher
3. Use the nearest lavatory.
4. Lay out and check safety gear.
5. Check and don Level D PPE.
6. For work in Level C PPE, put on safety gear in the following order:
    A. Coveralls
    B. Hearing Protection (if required)
    C. Gloves (inner and outer)
    D. Steel-toed work boots
    E. Connect suit and boots with tape
    F. Outer booties, if used
    G. Air purifying respirators (APRs), if required
    H. Eye protection (if using a ½ Face APR
    I. Hard hat
7. For work in Level C PPE, put on APRs as follows:
    A. Inspect.
        (1) Inspect before each use to ensure that they have been cleaned adequately.
        (2) Check material conditions for signs of pliability, deterioration, or distortion.
        (3) Examine cartridges and ensure that they are the correct type for the intended use, that the expiration date has not passed, and that they have not been opened or used previously.
        (4) Check face shields for cracks or fogginess.
    B. Loosen all harness strap adjustments.

C. Place chin in chin cup and draw back evenly on strap adjustments - the two bottom straps first, then the two top straps, and the center top strap last.

D. Check that the respirator is centered evenly on the face and that the straps are not uncomfortably tight.

E. Check for leaks or proper facial seals.

(1) To conduct a negative-pressure test, close the inlet part with the palm of the hand so it does not pass air, and gently inhale for about 10 seconds. Any inward rush of air indicates a poor fit. Note that a leaking facepiece may be drawn tightly to the face to form a good seal, giving a false indication of adequate fit.

(2) To conduct a positive-pressure test, gently exhale while covering the exhalation valve to ensure that a positive pressure can be built up. Failure to build a positive pressure indicates a poor fit.

8. Put on the rest of the gear in the following order:

A. Raise hood

B. Hard hat, if necessary

C. Surgical gloves

D. Outer gloves

E. Connect gloves and suit with tape

9. Select a buddy to act as a safety backup.

10. Check your buddy's equipment and have your buddy check yours for rips, tears, or malfunctions. Pay special attention to respirators, making sure that seals are good and that cartridges are securely in place.

11. If any equipment or gear gets damaged or if your suit tears badly, GO BACK.

12. If you experience physical discomfort, breathing difficulties, light-headedness, dizziness, or other abnormalities, GO BACK.

13. When you return, have your buddy check for external accumulation of contamination and remove it. Also check gear for damage.

14. Decontamination will be performed in steps as follows (as appropriate for the PPE being utilized):

Step 1 – Segregated Equipment Drop: Deposit equipment used on-Site (tools, sampling devices and containers, monitoring instruments, clipboards, etc.) in different containers with plastic liners. Each may be contaminated to a different degree. Segregation at the drop reduces the probability of cross-contamination. This equipment may be reused if properly decontaminated.

Equipment: various sizes of containers/plastic drop cloths

Step 2 – Boot Cover and Outer Glove Wash and Rinse: (Optional – will be used at the Site Safety

Officer's discretion.)

Equipment: spray bottle/container with nozzle/ two wash basins or tubs/scrub brush/water/Liqui-nox non-phosphate soap solution (1%)

Step 3 – Tape Removal: Remove tape around boots and gloves, and deposit in container with plastic liner. Remove boot covers, then outer gloves, and place them in the container.

Equipment: container (30–-50 gallons)/ plastic liners/ folding chairs

Step 4 – Safety Boot Wash and Rinse: (Optional - will be used at discretion of field team members.)

Equipment: two wash basins or tubs/scrub brush/water/ Liqui-nox solution (1%)

Step 5 – Protective Coveralls Removal: With the assistance of a helper, remove protective coveralls. Deposit in container with plastic liner.

Equipment: container (30–50 gallons)/folding chairs/plastic liners

Step 6 – Respirator Removal: Remove facepiece. Avoid touching face with gloves. If work is completed for the day, discard cartridges in lined container, and wash and rinse respirator.

Equipment: container (30–50 gallons)/ plastic liners

Step 7 – Inner Glove Removal: Remove inner gloves and deposit in container with plastic liner.

Equipment: container (20–30 gallons)/ plastic liners

15. Respirators will be cleaned daily by hand washing with MSA cleaner-sanitizer solution followed by a thorough rinse and air drying. NEVER ALLOW A RESPIRATOR TO DRY WITH THE STRAPS PLACED FORWARD ACROSS THE FACESHIELD BECAUSE THIS MAY CAUSE CHANGES IN THE FACE-TO-RESPIRATOR SEAL SURFACE. The specific procedures to be employed are as follows:

    A. Remove all cartridges (canisters) and filters plus gaskets and seals not permanently affixed to their seats.

    B. Loosen harness adjustment straps.

    C. Remove exhalation valve cover.

    D. Remove inhalation and exhalation valves.

    E. Remove protective face-shield cover.

    F. Wash facepiece in MSA cleaner/sanitizer powder mixed with warm water, preferably at a temperature of 120 F. Wash components separately from facepiece. Heavy soil may be removed from the facepiece surface using a medium-soft hand brush.

G. Remove all parts from the wash solution, and rinse twice in clean, warm water.

H. Air-dry all parts in a designated clean area.

I. Pat facepieces, valves, and seats to remove any remaining soap residue, water, or other foreign material with a clean, damp, lint-free cloth.

J. Reassemble respirator.

K. Place respirator in a plastic bag and the respirator box or otherwise store the respirator to prevent exposure to dust, moisture, sunlight, damaging chemicals, extreme temperatures, and impact.

16. Investigation-derived waste material will be handled as follows:

A. Used PPE and disposable equipment will be double bagged and placed in a municipal refuse dumpster on Site. These wastes are not considered hazardous and can be sent to a municipal landfill. Any PPE and disposable equipment that is to be disposed of which can still be reused will be rendered inoperable before disposal in the refuse dumpster.

B. Wash and rinse waters from personal and equipment decontamination will be poured onto the ground or into a storm drain.

C. Soil cuttings generated during the subsurface sampling will be placed back into the soil borings from which the samples were obtained. Any remaining soil cuttings will be spread around the sampling location.

Appendix E

Heat Stress and Heat Stress Monitoring

Appendix E: Heat Stress and Heat Stress Monitoring

Heat is one of the most common (and potentially serious) illnesses at hazardous waste sites where PPE is worn; therefore, regular monitoring and other preventive precautions are vital. Shelter from the sun will be provided during rest periods. Below is a list of the signs and symptoms of heat stress. Initial work schedules will be approximately 90 minutes of work followed by 15 minutes of rest. Work intervals will be adjusted to shorter periods based on the assessment of the SSO. Monitoring for heat stress will be conducted by visual observation by the individual team members.

Signs and Symptoms of Heat Stress

- **Heat rash** may result from continuous exposure to heat or humid air.
- **Heat cramps** are caused by heavy sweating with inadequate electrolyte replacement. Signs and symptoms include:
    - muscle spasms
    - pain in the hands, feet, and abdomen
- **Heat exhaustion** occurs from increased stress on various body organs, including inadequate blood circulation caused by cardiovascular insufficiency or dehydration. Signs and symptoms include:
    - pale, cool, moist skin
    - heavy sweating
    - dizziness
    - nausea
    - fainting
- **Heat stroke** is the most serious form of heat stress. Temperature regulation fails, and the body temperature rises to critical levels. Immediate action must be taken to cool the body before serious injury and death occur. Competent medical help must be obtained. Signs and symptoms include:
    - red, hot, usually dry skin
    - lack of or reduced perspiration
    - nausea
    - dizziness and confusion
    - strong, rapid pulse
    - coma

First-aid remedies for heat stress and heat stroke includes removing the worker to a cool place, providing cool water or a commercial sport drink, loosen tight clothing, and call for an ambulance if victim vomits or starts to lose consciousness.

Appendix F

Medical Monitoring Program

Appendix F: Medical Monitoring Program

The workers most likely to be exposed to contaminated materials at the Site are sampling and inspection personnel. These personnel are included in this Medical Monitoring Program.

The purposes of the Medical Monitoring Program are to identify any illness or problem that would put an employee at an unusual risk from exposures; to ensure that each employee can use negative-pressure respirators safely and withstand heat or cold stress; and to establish and maintain a medical data base for employees to monitor any abnormalities that may be related to work exposure and that could increase injury risk for the employee or others in the performance of job functions. The Medical Monitoring Program includes:

- A baseline physical examination;
- A medical determination of fitness of duty, including work restrictions after any job-related injury or illness or non job-related absence lasting more than three working days;
- The review of each site-specific Health and Safety Plan and potential exposure list to determine the need for specific biological and medical monitoring; and
- Annual and exit physical examinations with attention given to specific exposures or symptoms.

Baseline Physical Examination

- A Baseline Physical Examination will be performed on each employee engaged in hazardous waste activities. The purposes of this examination are to identify any illness or problem that would put an employee at unusual risk from certain exposures; to certify the safe use of negative-pressure respirators (OSHA Safety and Health Standard 29 CFR 1910.134); and to develop a database for the assessment of exposure-related events detected through periodic medical monitoring. Variable data, such as age, sex, race, smoking, prior employment, and exposure history, that may have a bearing on the occurrence of subsequent events after employment begins will be gathered.
- The content of the Baseline Physical Examination will include:
- Medical, occupational, and fertility histories;
- A physical examination, stressing neurological, cardiopulmonary, musculoskeletal, and skin systems;
- An electrocardiogram;
- PA and lateral chest x-rays;
- A pulmonary function test (FEV1, FVC, FEV 25-75);
- An audiogram;
- A multi-chemistry blood panel, including kidney and liver function tests, CBC with differential, and urinalysis;
- Tests deemed necessary by symptoms or exposure history;
- A red blood cell cholinesterase; and

- Physical parameters, including blood pressure and visual acuity testing.

Annual Physical Examination

An examination and updated occupational history will be performed on an annual basis during the anniversary month of the baseline physical examination. The Annual Physical Examination serves to identify and prevent illness caused by cumulative exposure to toxic substances.

The Annual Physical Examination will include:

- A personal work history (based on specific project histories);
- A physical examination, stressing neurological, cardiopulmonary, musculoskeletal, and skin systems;
- Pulmonary function test (FEV1, FVC, FEV 25-75);
- A multi-chemistry blood panel, including kidney and liver function test;
- An audiogram;
- Tests deemed necessary by symptoms or exposure history; and
- An optional wellness profile.

Return to Work Examination

Any job-related illness or injury will be followed by a medical examination to determine fitness for duty or possible job restrictions based on the physical findings of the medical examiner. A similar examination will be performed following three missed workdays caused by a non job-related illness or injury requiring medical intervention.

Exit Physical Examination

The content of the Exit Physical Examination will include:

- a personal work history (based on specific project histories);
- medical, exposure, and fertility histories;
- a physical examination, stressing neurological, cardiopulmonary, musculoskeletal, and skin systems;
- a pulmonary function test (FEV1, FVC, FEV 25-75);
- an electrocardiogram;
- PA and lateral chest x-rays;
- an audiogram;
- a multi-chemistry blood panel, including kidney and liver function tests, CBC with differential, and urinalysis;
- tests deemed necessary by symptoms or exposure history;
- a red blood cell cholinesterase; and

- physical parameters, including blood pressure and visual acuity testing.

Appendix G

Properties of Materials and Toxicological Profiles

Appendix G: Properties of Materials and Toxicological Profiles

Lead

The PEL for lead is 0.050 mg/m3. NIOSH has established an REL of 0.100 mg/m3. The IDLH concentration for this substance is 100 mg/m3.

A heavy, ductile, soft, gray solid, lead is also known as lead metal and plumbum. A person can be exposed to lead contamination by inhalation, ingestion, or contact. The target organs for lead include eyes, GI tract, CNS, blood, and gingival tissue.

Symptoms of lead exposure include weakness, lassitude, insomnia; facial pallor; pal eye, anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; ankle or wrist paralysis, encephalopathy; kidney disease; irritated eyes; and hypotension. If eye contact occurs, the eyes should be washed immediately with large amounts of water. For dermal contact, remove any penetrated clothing and immediately flush the contaminated skin with soap and water. If this chemical is inhaled in large quantities, move to fresh air at once. Perform mouth-to-mouth resuscitation if breathing has stopped. Keep the person warm and resting. For any of the above or if the chemical has been swallowed, seek medical attention promptly.

Arsenic

The PEL for inorganic arsenic is 0.01 mg/m^3. NIOSH has established an REL of 0.002 mg/m^3 (15-minute). The IDLH concentration for this substance is 5 mg/m^3.

Arsenic is a naturally occurring element widely distributed in the earth's crust. In the environment, arsenic is combined with oxygen, chlorine, and sulfur to form inorganic arsenic compounds. Arsenic in animals and plants combines with carbon and hydrogen to form organic arsenic compounds. Inorganic arsenic compounds are mainly used to preserve wood. Organic arsenic compounds are used as pesticides.

Breathing high levels of inorganic arsenic can give you a sore throat or irritated lungs. Ingesting high levels of inorganic arsenic can result in death. Lower levels of arsenic can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet. Skin contact with inorganic arsenic may cause redness and swelling.

Benzene (VOCs)

The PEL for benzene is 1 ppm. NIOSH has established an REL of 0.1 ppm and an STEL of 1 ppm. The IDLH concentration for this substance is 500 ppm.

Benzene affects the brain. Low-to-moderate levels from long-term exposure can cause tiredness, confusion, weakness, drunken-type actions, memory loss, nausea and loss of appetite, and hearing loss. Inhaling a high level of these chemicals in a short time can make you feel light-headed, dizzy, or sleepy. They can cause unconsciousness, and even death. Repeated exposure to high levels can cause permanent brain and speech damage, vision and hearing problems, loss of muscle control, and poor balance. It can also cause memory loss and decreased mental ability. These chemicals also affect the kidneys. Benzene is regulated by Cal/OSHA as a carcinogen.

Total Petroleum Hydrocarbons

There are no regulations or advisories specific to TPH. The PEL for TPH (as petroleum distillates) is 500 ppm (2000 mg/m^3). NIOSH has established an REL of 350 mg/m^3 and an STEL of 1800 mg/m^3 (15 minutes). The IDLH concentration for this substance is 1100 ppm (10% LEL).

Total petroleum hydrocarbons (TPH) is a term used to describe a large family of several hundred chemical compounds that originally come from crude oil. Crude oil is used to make petroleum products, which can contaminate the environment. Because there are so many different chemicals in crude oil and in other petroleum products, it is not practical to measure each one separately. However, it is useful to measure the total amount of TPH at a Site.

Some of the TPH compounds can affect your central nervous system. One compound can cause headaches and dizziness at high levels in the air. Another compound can cause a nerve disorder called "peripheral neuropathy," consisting of numbness in the feet and legs. Other TPH compounds can cause effects on the blood, immune system, lungs, skin, and eyes.

Animal studies have shown effects on the lungs, central nervous system, liver, and kidney from exposure to TPH compounds. Some TPH compounds have also been shown to affect reproduction and the developing fetus in animals.

Appendix H

Site Safety Officer Responsibilities

Appendix H: Site Safety Officer Responsibilities

An SSO will be designated. The responsibilities of the SSO will include the following:

- briefing personnel on the hazards at the Site, the standard operating procedures to be employed, and emergency procedures;
- conducting on-Site health monitoring;
- coordinating access control and site security, including responsibility for protection of third parties, such as visitors or the surrounding community;
- monitoring work practices and decontamination to ensure that required procedures are being followed;
- being available to document and respond to any concerns or complaints made by on-site personnel;
- documenting unsafe work practices or conditions;
- documenting any accidents or incidents that result in illness or injury to personnel; and
- evaluating and amending the HASP daily to remedy deficiencies and post entry briefings.

Appendix I

Authorized Changes to Health and Safety Plan

Appendix I: Authorized Changes to HASP

Insert the following changes and replace affected pages:

Site Safety Officer	Date
Project Manager	Date

Appendix J

Accident Report Form

ACCIDENT REPORT FORM

Site Name _____

Date of Incident _____

Name of Injured Person _____

Reported by _____

Job # _____

Scope of Work _____

Report of Injury to
(Site Health and Safety Officer): _____ Time: _____ Date: _____

DESCRIPTION OF INJURY:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Appendix K

HASP Acknowledgment Sheet

HASP ACKNOWLEDGEMENT SHEET

Position	Name	Signature
Project Manager	Steve Ridenour	_____
Tel: 310-997-6500		
Site Safety Officer	Eric Fraske	_____
Tel: 562-544-3910		

The following have read this plan and understand its provisions:

Company	Name	Signature	Date

Company	Name	Signature	Date

Company	Name	Signature	Date

Appendix C
Public Field Notices

Los Angeles Unified School District

Office of Environmental Health and Safety

MICHELLE KING
Superintendent of Schools

THELMA MELÉNDEZ, PH.D.
Chief Executive Officer, Office of Educational Services

ROBERT LAUGHTON
Director, Environmental Health and Safety

CARLOS A. TORRES
Deputy Director, Environmental Health and Safety

June 13, 2016

TO: Neighbors and Community Members of the Jefferson High School

FROM: Los Angeles Unified School District
Office of Environmental Health and Safety

REGARDING: Preliminary Environmental Assessment
Jefferson High School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice of a Preliminary Environmental Assessment (PEA) that will be conducted within the boundaries of Jefferson High School, located at 1319 East 41st Street, Los Angeles, California. The PEA will be conducted across most of the campus scheduled to undergo a comprehensive modernization.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the independent oversight of the LAUSD-OEHS, which is independent from the LAUSD Facilities Services Division (The Facilities Services Division is the responsible Branch for the development and construction of the project). The environmental investigation will consist of soil sampling in locations on campus where existing buildings will be demolished, new buildings will be constructed, and where a former clarifier and a paint spray booth were previously located. Soil will be analyzed for potential residual arsenic, hydrocarbons, lead-based paint, polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), and volatile organic compounds (VOCs) in soil. If necessary, a soil cleanup will be performed prior to construction activities to protect students, faculty, and staff.

Fieldwork is scheduled to begin on June 20, 2016, and is expected to be completed in 5 days. All fieldwork is scheduled to be conducted when students are away from school, between 7:00 am and 5:00 pm.

The results of the investigation will be submitted to LAUSD-OEHS in a report for review. The report will include an assessment of whether any of the above listed compounds are present in soil at concentrations that would require further assessment or a response action before the Site is cleared for construction activities. When the OEHS's review is complete, OEHS will issue a determination with regard to the assessment.

If you have any questions concerning the upcoming environmental investigation or other related activities for the proposed comprehensive modernization of Jefferson High School, please contact Dane Robinson, LAUSD Office of Environmental Health and Safety Site Assessment Project Manager, at (213) 241-4122 (email at dane.robinson@lausd.net).

Si desea información en Español comuníquese con Teresa Akins en FSD Relaciones con la Comunidad al (213) 241-1326 (línea directa) o (213) 241-1340 (línea principal) o por correo electrónico a teresa.akins@lausd.net.

Los Angeles Unified School District

Office of Environmental Health and Safety

MICHELLE KING
Superintendent of Schools

THELMA MELÉNDEZ, PH.D.
Chief Executive Officer, Office of Educational Services

ROBERT LAUGHTON
Director, Environmental Health and Safety

CARLOS A. TORRES
Deputy Director, Environmental Health and Safety

13 de junio de 2016

TO: Vecinos y Miembros de la Comunidad de Jefferson High School

FROM: Los Angeles Unified School District
Oficina de Salud y Seguridad Medioambiental

REGARDING: Estudio Inicial de Sitio
Jefferson High School, Los Angeles, California

La Oficina de Salud y Seguridad Medioambiental (OEHS) de El Distrito Escolar Unificado de Los Ángeles (LAUSD) le notifica con anticipación de un Estudio Inicial de Sitio (PEA) que se llevará a cabo para el proyecto de construcción en *Jefferson High School,* ubicada en el 1319 East 41st Street, Los Ángeles, California ("Sitio"). La PEA se llevará a cabo en la mayoría parte del campo programado para someterse a una modernización integral.

Un contratista con licencia, trabajando en nombre de LAUSD, llevará a cabo la investigación bajo la supervisión independiente del LAUSD-OEHS, que es independiente de la división de servicios de instalaciones de LAUSD (La división de servicios de instalaciones es la rama responsable para el desarrollo y construcción del proyecto). La investigación ambiental consistirá en la toma de muestras de tierra en los lugares en el campus donde edificios existentes será demolidos, nuevos edificios se construirá, y donde tanques de almacenamiento subterráneo anterior y un incinerador se encontraban anteriormente. El suelo será analizado para el potencial de arsénico residual, hidrocarburos, pintura a base de plomo, bifenilos policlorados (PCBs), plaguicidas organoclorados (OCPs) y volátiles (VOCs) de compuestos orgánicos en el suelo. Si es necesario, se realizará una limpieza de tierra antes de las actividades de construcción para proteger a los estudiantes, facultad y personal.

El trabajo de campo está programado a comenzar el 20 de junio de 2016 y se anticipa que durara cinco dias. Este trabajo se llevará a cabo cuando los estudiantes no estén en la escuela, entre 7 a.m. y 5 p.m.

Resultados de la investigación serán presentados a LAUSD-OEHS para su revisión. El reporte indicará si existe arsénico, residuos de pintura conteniendo plomo y OCPs en la tierra, en cantidades que requieran estudios más intensivos o alguna acción en respuesta antes de que la propiedad sea aprobada para actividades de construcción. OEHS revisará el reporte en su totalidad y luego hará una determinación con respecto al estudio preliminar.

Si tiene alguna pregunta sobre esta investigación u otras actividades relacionadas en áreas adyacentes al Sitio, puede comunicarse con Teresa Akins en FSD Relaciones con la Comunidad al (213) 241-1326 (línea directa) o (213) 241-1340 (línea principal) o por correo electrónico a teresa.akins@lausd.net o puede comunicarse con Dane Robinson, gerente de proyecto en LAUSD-OEHS, al (213) 241-4122, o por email a dane.robinson@lausd.net.

Appendix D

Laboratory Analytical Reports and Chain-of-Custody Documentation

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	370943
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	07/05/2016
		Date Received:	06/22/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, Ca

This report contains all data that could be reported. Additional samples are not available if further analyses are required.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
370943-001	SS100-0.5	370943-025	SS39-1.5	370943-049	SS47-1.5
370943-002	SS100-1.5	370943-026	SS39-2.5	370943-050	SS47-2.5
370943-003	SS100-2.5	370943-027	SS40-0.5	370943-051	SS48-0.5
370943-004	SS97-0.5	370943-028	SS40-1.5	370943-052	SS48-1.5
370943-005	SS97-1.5	370943-029	SS40-2.5	370943-053	SS48-2.5
370943-006	SS97-2.5	370943-030	SS42-0.5	370943-054	SS49-0.5
370943-007	SS24-0.5	370943-031	SS42-1.5	370943-055	SS49-1.5
370943-008	SS24-1.5	370943-032	SS42-2.5	370943-056	SS49-2.5
370943-009	SS24-2.5	370943-033	SS41-0.5	370943-057	SS50-0.5
370943-010	SS32-0.5	370943-034	SS41-1.5	370943-058	SS50-1.5
370943-011	SS32-1.5	370943-035	SS41-2.5	370943-059	SS50-2.5
370943-012	SS32-2.5	370943-036	SS43-0.5	370943-060	SS46-0.5
370943-013	SS4-0.5	370943-037	SS43-0.5 DUP	370943-061	SS46-0.5 DUP
370943-014	SS4-1.5	370943-038	SS43-1.5	370943-062	SS46-1.5
370943-015	SS4-2.5	370943-039	SS43-2.5	370943-063	SS46-2.5
370943-016	SS3-0.5	370943-040	SS44-0.5	370943-064	SS35-0.5
370943-017	SS3-0.5 DUP	370943-041	SS44-0.5 DUP	370943-065	SS35-1.5
370943-018	SS3-1.5	370943-042	SS44-1.5	370943-066	SS35-2.5
370943-019	SS3-2.5	370943-043	SS44-2.5	370943-067	SS38-0.5
370943-020	SS37-0.5	370943-044	SS45-0.5	370943-068	SS38-1.5
370943-021	SS37-0.5 DUP	370943-045	SS45-0.5 DUP	370943-069	SS38-2.5
370943-022	SS37-1.5	370943-046	SS45-1.5	370943-070	SS36-0.5
370943-023	SS37-2.5	370943-047	SS45-2.5	370943-071	SS36-1.5
370943-024	SS39-0.5	370943-048	SS47-0.5	370943-072	SS36-2.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 07:50	**Site:**			
Sample #:	**370943-001**	**Client Sample #:**	SS100-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Antimony	ND	1	0.37	3	mg/Kg	06/23/16	06/24/16	JN	
Arsenic	**3.74**	1	0.36	1	mg/Kg	06/23/16	06/24/16	JN	
Barium	**84.8**	1	0.23	1	mg/Kg	06/23/16	06/24/16	JN	
Beryllium	ND	1	0.17	0.5	mg/Kg	06/23/16	06/24/16	JN	
Cadmium	**0.42 J**	1	0.21	0.5	mg/Kg	06/23/16	06/24/16	JN	J
Chromium	**11.5**	1	0.13	1	mg/Kg	06/23/16	06/24/16	JN	
Cobalt	**5.52**	1	0.19	0.5	mg/Kg	06/23/16	06/24/16	JN	
Copper	**11.9**	1	0.31	1	mg/Kg	06/23/16	06/24/16	JN	
Lead	**19.0**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Molybdenum	**1.54**	1	0.13	1	mg/Kg	06/23/16	06/24/16	JN	
Nickel	**12.2**	1	0.2	1.5	mg/Kg	06/23/16	06/24/16	JN	
Selenium	ND	1	0.72	1	mg/Kg	06/23/16	06/24/16	JN	B
Silver	**0.52**	1	0.13	0.5	mg/Kg	06/23/16	06/24/16	JN	
Thallium	ND	1	0.42	1	mg/Kg	06/23/16	06/24/16	JN	
Vanadium	**23.7**	1	0.37	0.5	mg/Kg	06/23/16	06/24/16	JN	
Zinc	**50.0**	1	0.28	5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**3.44**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A							QCBatchID:	QC1168585	
Mercury	**0.06 J**	1	0.02	0.14	mg/Kg	06/24/16	06/24/16	JP	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.32	0.20988	3.96	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*85*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168536	
1,1,1,2-Tetrachloroethane	ND	1.06	0.2544	5.3	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	1.06	0.159	5.3	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.06	0.3074	5.3	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	1.06	0.2332	5.3	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.06	0.7844	5.3	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	1.06	0.2438	5.3	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	1.06	0.2226	5.3	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	1.06	0.212	5.3	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.06	0.3498	5.3	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.06	0.2968	5.3	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.06	0.212	5.3	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	1.06	0.1272	5.3	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	1.06	0.1484	5.3	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	1.06	0.3604	5.3	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.06	0.2438	5.3	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	1.06	0.2226	5.3	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	1.06	0.2014	5.3	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	1.06	0.2544	5.3	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	1.06	0.2014	5.3	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	**1.4 J**	1.06	0.7632	106	ug/Kg		06/23/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.06	0.318	5.3	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	1.06	0.265	5.3	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	1.06	0.2332	5.3	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 07:50	**Site:**			
Sample #:	**370943-001**	**Client Sample #:**	SS100-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
4-Isopropyltoluene	ND	1.06	0.2862	5.3	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.06	0.1802	5.3	ug/Kg		06/23/16	ZZ	
Acetone	ND	1.06	10.6	106	ug/Kg		06/23/16	ZZ	
Allyl Chloride	ND	1.06	0.1484	5.3	ug/Kg		06/23/16	ZZ	
Benzene	**0.57 J**	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	1.06	0.318	5.3	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	1.06	0.212	5.3	ug/Kg		06/23/16	ZZ	
Bromoform	ND	1.06	0.2014	5.3	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	1.06	0.2332	5.3	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	1.06	0.2014	5.3	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	1.06	0.212	5.3	ug/Kg		06/23/16	ZZ	
Chloroform	ND	1.06	0.1802	5.3	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	1.06	0.2226	5.3	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	1.06	0.212	5.3	ug/Kg		06/23/16	ZZ	
cis-1,3-dichloropropene	ND	1.06	0.212	5.3	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.06	0.212	5.3	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	1.06	0.2438	5.3	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	1.06	0.2438	5.3	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.06	0.2226	5.3	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	1.06	0.265	5.3	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.06	0.4452	5.3	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	1.06	0.4028	5.3	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	1.06	0.1802	5.3	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	1.06	0.2226	5.3	ug/Kg		06/23/16	ZZ	
Methylene chloride	ND	1.06	0.2332	5.3	ug/Kg		06/23/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.06	0.265	5.3	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	1.06	0.2968	5.3	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	1.06	0.1696	5.3	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	1.06	0.2014	5.3	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	1.06	0.1378	5.3	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	1.06	0.3604	5.3	ug/Kg		06/23/16	ZZ	
Styrene	ND	1.06	0.2438	5.3	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.06	9.328	10.6	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.06	0.2014	5.3	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	1.06	0.212	5.3	ug/Kg		06/23/16	ZZ	
Toluene	**0.31 J**	1.06	0.2438	5.3	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	1.06	0.2438	5.3	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	1.06	0.1484	5.3	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.06	0.4028	5.3	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	1.06	0.4134	5.3	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	1.06	0.265	5.3	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	1.06	0.1908	5.3	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	1.06	0.477	5.3	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*	
1,2-Dichloroethane-d4 (SUR)	*150*	*70-145*	*S*	*Results < RDL*
4-Bromofluorobenzene (SUR)	*118*	*70-145*		
Dibromodifluoromethane (SUR)	*111*	*70-145*		
Toluene-d8 (SUR)	*98*	*70-145*		

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 07:52	**Site:**			
Sample #:	**370943-002**	**Client Sample #:**	SS100-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 07:54	**Site:**			
Sample #:	**370943-003**	**Client Sample #:**	SS100-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:04	**Site:**			
Sample #:	**370943-004**	**Client Sample #:**	SS97-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Antimony	ND	1	0.37	3	mg/Kg	06/23/16	06/24/16	JN	
Arsenic	**2.61**	1	0.36	1	mg/Kg	06/23/16	06/24/16	JN	
Barium	**71.2**	1	0.23	1	mg/Kg	06/23/16	06/24/16	JN	
Beryllium	ND	1	0.17	0.5	mg/Kg	06/23/16	06/24/16	JN	
Cadmium	**0.37 J**	1	0.21	0.5	mg/Kg	06/23/16	06/24/16	JN	J
Chromium	**13.1**	1	0.13	1	mg/Kg	06/23/16	06/24/16	JN	
Cobalt	**5.25**	1	0.19	0.5	mg/Kg	06/23/16	06/24/16	JN	
Copper	**13.2**	1	0.31	1	mg/Kg	06/23/16	06/24/16	JN	
Lead	**18.2**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Molybdenum	**0.99 J**	1	0.13	1	mg/Kg	06/23/16	06/24/16	JN	J
Nickel	**11.4**	1	0.2	1.5	mg/Kg	06/23/16	06/24/16	JN	
Selenium	ND	1	0.72	1	mg/Kg	06/23/16	06/24/16	JN	B
Silver	ND	1	0.13	0.5	mg/Kg	06/23/16	06/24/16	JN	
Thallium	ND	1	0.42	1	mg/Kg	06/23/16	06/24/16	JN	
Vanadium	**21.7**	1	0.37	0.5	mg/Kg	06/23/16	06/24/16	JN	
Zinc	**40.0**	1	0.28	5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**3.58**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A							QCBatchID:	QC1168585	
Mercury	ND	1	0.02	0.14	mg/Kg	06/24/16	06/24/16	JP	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.14	0.18126	3.42	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*86*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168536	
1,1,1,2-Tetrachloroethane	ND	0.91	0.2184	4.55	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	0.91	0.1365	4.55	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.91	0.2639	4.55	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.91	0.6734	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.91	0.3003	4.55	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.91	0.2548	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	0.91	0.1092	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	0.91	0.3094	4.55	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	0.91	0.2184	4.55	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	ND	0.91	0.6552	91	ug/Kg		06/23/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	0.91	0.273	4.55	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:04	**Site:**			
Sample #:	**370943-004**	**Client Sample #:**	SS97-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
4-Isopropyltoluene	ND	0.91	0.2457	4.55	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
Acetone	ND	0.91	9.1	91	ug/Kg		06/23/16	ZZ	
Allyl Chloride	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
Benzene	**1.3 J**	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	0.91	0.273	4.55	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Bromoform	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Chloroform	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
cis-1,3-dichloropropene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.91	0.3822	4.55	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	0.91	0.3458	4.55	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
Methylene chloride	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	0.91	0.2548	4.55	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	0.91	0.1456	4.55	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	0.91	0.1183	4.55	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	0.91	0.3094	4.55	ug/Kg		06/23/16	ZZ	
Styrene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.91	8.008	9.1	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Toluene	**0.44 J**	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.91	0.3458	4.55	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	0.91	0.3549	4.55	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	0.91	0.4095	4.55	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*140*	*70-145*	
4-Bromofluorobenzene (SUR)	*116*	*70-145*	
Dibromodifluoromethane (SUR)	*113*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:06	**Site:**			
Sample #:	**370943-005**	**Client Sample #:**	SS97-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:08	**Site:**			
Sample #:	**370943-006**	**Client Sample #:**	SS97-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:20	**Site:**			
Sample #:	**370943-007**	**Client Sample #:**	SS24-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1168597
Lead	**40.3**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1168699
Arsenic	**3.65**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:22	**Site:**			
Sample #:	**370943-008**	**Client Sample #:**	SS24-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:24	**Site:**			
Sample #:	**370943-009**	**Client Sample #:**	SS24-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:30	**Site:**			
Sample #:	**370943-010**	**Client Sample #:**	SS32-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**158**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**4.33**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.11	0.17649	3.33	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*91*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.19	0.2856	5.95	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.19	0.1785	5.95	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.19	0.3451	5.95	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.19	0.2618	5.95	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.19	0.8806	5.95	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	1.19	0.2737	5.95	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	1.19	0.2499	5.95	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.19	0.238	5.95	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.19	0.3927	5.95	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.19	0.3332	5.95	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.19	0.238	5.95	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	1.19	0.1428	5.95	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	1.19	0.1666	5.95	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	1.19	0.4046	5.95	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.19	0.2737	5.95	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.19	0.2499	5.95	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	1.19	0.2261	5.95	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.19	0.2856	5.95	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	1.19	0.2261	5.95	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	**0.86 J**	1.19	0.8568	119	ug/Kg		06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.19	0.357	5.95	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	1.19	0.2975	5.95	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	1.19	0.2618	5.95	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	1.19	0.3213	5.95	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.19	0.2023	5.95	ug/Kg		06/24/16	ZZ	
Acetone	**85 J**	1.19	11.9	119	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	1.19	0.1666	5.95	ug/Kg		06/24/16	ZZ	
Benzene	**1.3 J**	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	1.19	0.357	5.95	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	1.19	0.238	5.95	ug/Kg		06/24/16	ZZ	
Bromoform	ND	1.19	0.2261	5.95	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	1.19	0.2618	5.95	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	1.19	0.2261	5.95	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	1.19	0.238	5.95	ug/Kg		06/24/16	ZZ	
Chloroform	ND	1.19	0.2023	5.95	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	1.19	0.2499	5.95	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.19	0.238	5.95	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:30	**Site:**			
Sample #:	**370943-010**	**Client Sample #:**	SS32-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.19	0.238	5.95	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.19	0.238	5.95	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	1.19	0.2737	5.95	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.19	0.2737	5.95	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.19	0.2499	5.95	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	1.19	0.2975	5.95	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.19	0.4998	5.95	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	1.19	0.4522	5.95	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	1.19	0.2023	5.95	ug/Kg		06/24/16	ZZ	
m and p-Xylene	ND	1.19	0.2499	5.95	ug/Kg		06/24/16	ZZ	
Methylene chloride	ND	1.19	0.2618	5.95	ug/Kg		06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.19	0.2975	5.95	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	1.19	0.3332	5.95	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	1.19	0.1904	5.95	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	1.19	0.2261	5.95	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	1.19	0.1547	5.95	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	1.19	0.4046	5.95	ug/Kg		06/24/16	ZZ	
Styrene	ND	1.19	0.2737	5.95	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.19	10.472	11.9	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.19	0.2261	5.95	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	1.19	0.238	5.95	ug/Kg		06/24/16	ZZ	
Toluene	**0.60 J**	1.19	0.2737	5.95	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.19	0.2737	5.95	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.19	0.1666	5.95	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.19	0.4522	5.95	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	1.19	0.4641	5.95	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	1.19	0.2975	5.95	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	1.19	0.2142	5.95	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	1.19	0.5355	5.95	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*116*	*70-145*	
4-Bromofluorobenzene (SUR)	*105*	*70-145*	
Dibromodifluoromethane (SUR)	*116*	*70-145*	
Toluene-d8 (SUR)	*95*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:32	**Site:**			
Sample #:	**370943-011**	**Client Sample #:**	SS32-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:34	**Site:**			
Sample #:	**370943-012**	**Client Sample #:**	SS32-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:41	**Site:**			
Sample #:	**370943-013**	**Client Sample #:**	SS4-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**13.9**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**1.247 J**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.11	0.17649	3.33	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*92*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.16	0.2784	5.8	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.16	0.174	5.8	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.16	0.3364	5.8	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.16	0.2552	5.8	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.16	0.8584	5.8	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.16	0.3828	5.8	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.16	0.3248	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	1.16	0.1392	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	1.16	0.1624	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	1.16	0.3944	5.8	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.16	0.2784	5.8	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	ND	1.16	0.8352	116	ug/Kg		06/24/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.16	0.348	5.8	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	1.16	0.29	5.8	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	1.16	0.2552	5.8	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	1.16	0.3132	5.8	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.16	0.1972	5.8	ug/Kg		06/24/16	ZZ	
Acetone	**13 J**	1.16	11.6	116	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	1.16	0.1624	5.8	ug/Kg		06/24/16	ZZ	
Benzene	**2.1 J**	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	1.16	0.348	5.8	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
Bromoform	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	1.16	0.2552	5.8	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
Chloroform	ND	1.16	0.1972	5.8	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:41	**Site:**			
Sample #:	**370943-013**	**Client Sample #:**	SS4-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	1.16	0.29	5.8	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.16	0.4872	5.8	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	1.16	0.4408	5.8	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	1.16	0.1972	5.8	ug/Kg		06/24/16	ZZ	
m and p-Xylene	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
Methylene chloride	**0.28 J**	1.16	0.2552	5.8	ug/Kg		06/24/16	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	1.16	0.29	5.8	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	1.16	0.3248	5.8	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	1.16	0.1856	5.8	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	1.16	0.1508	5.8	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	1.16	0.3944	5.8	ug/Kg		06/24/16	ZZ	
Styrene	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.16	10.208	11.6	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
Toluene	**0.67 J**	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.16	0.1624	5.8	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.16	0.4408	5.8	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	1.16	0.4524	5.8	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	1.16	0.29	5.8	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	1.16	0.522	5.8	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*118*	*70-145*	
4-Bromofluorobenzene (SUR)	*114*	*70-145*	
Dibromodifluoromethane (SUR)	*114*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:43	**Site:**			
Sample #:	**370943-014**	**Client Sample #:**	SS4-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:45	**Site:**			
Sample #:	**370943-015**	**Client Sample #:**	SS4-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:53	**Site:**			
Sample #:	**370943-016**	**Client Sample #:**	SS3-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168597		
Lead	**77.9**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168699		
Arsenic	**4.17**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:53	**Site:**			
Sample #:	**370943-017**	**Client Sample #:**	SS3-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168597		
Lead	**35.1**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168699		
Arsenic	**3.28**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:54	**Site:**			
Sample #:	**370943-018**	**Client Sample #:**	SS3-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 08:55	**Site:**			
Sample #:	**370943-019**	**Client Sample #:**	SS3-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:10	**Site:**			
Sample #:	**370943-020**	**Client Sample #:**	SS37-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:	QC1168597	
Lead	**22.7**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID:	QC1168699	
Arsenic	**3.22**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:	QC1168626	
TPH Gasoline	ND	1.22	0.19398	3.66	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*88*	*60-140*	

Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.09	0.2616	5.45	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	1.09	0.1635	5.45	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.09	0.3161	5.45	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	1.09	0.2398	5.45	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.09	0.8066	5.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	1.09	0.2507	5.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	1.09	0.2289	5.45	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	1.09	0.218	5.45	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.09	0.3597	5.45	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.09	0.3052	5.45	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.09	0.218	5.45	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	1.09	0.1308	5.45	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	1.09	0.1526	5.45	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	1.09	0.3706	5.45	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.09	0.2507	5.45	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	1.09	0.2289	5.45	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	1.09	0.2071	5.45	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	1.09	0.2616	5.45	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	1.09	0.2071	5.45	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	**3.5 J**	1.09	0.7848	109	ug/Kg		06/23/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.09	0.327	5.45	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	1.09	0.2725	5.45	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	1.09	0.2398	5.45	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	1.09	0.2943	5.45	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.09	0.1853	5.45	ug/Kg		06/23/16	ZZ	
Acetone	**18 J**	1.09	10.9	109	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	1.09	0.1526	5.45	ug/Kg		06/23/16	ZZ	
Benzene	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
Bromobenzene	ND	1.09	0.327	5.45	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	1.09	0.218	5.45	ug/Kg		06/23/16	ZZ	
Bromoform	ND	1.09	0.2071	5.45	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	1.09	0.2398	5.45	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	1.09	0.2071	5.45	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	1.09	0.218	5.45	ug/Kg		06/23/16	ZZ	
Chloroform	ND	1.09	0.1853	5.45	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	1.09	0.2289	5.45	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	1.09	0.218	5.45	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:10	**Site:**			
Sample #:	**370943-020**	**Client Sample #:**	SS37-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.09	0.218	5.45	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.09	0.218	5.45	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	1.09	0.2507	5.45	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	1.09	0.2507	5.45	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.09	0.2289	5.45	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	1.09	0.2725	5.45	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.09	0.4578	5.45	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	1.09	0.4142	5.45	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	1.09	0.1853	5.45	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	1.09	0.2289	5.45	ug/Kg		06/23/16	ZZ	
Methylene chloride	**0.25 J**	1.09	0.2398	5.45	ug/Kg		06/23/16	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	1.09	0.2725	5.45	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	1.09	0.3052	5.45	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	1.09	0.1744	5.45	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	1.09	0.2071	5.45	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	1.09	0.1417	5.45	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	1.09	0.3706	5.45	ug/Kg		06/23/16	ZZ	
Styrene	ND	1.09	0.2507	5.45	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.09	9.592	10.9	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.09	0.2071	5.45	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	1.09	0.218	5.45	ug/Kg		06/23/16	ZZ	
Toluene	ND	1.09	0.2507	5.45	ug/Kg		06/23/16	ZZ	
trans-1,2-dichloroethene	ND	1.09	0.2507	5.45	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	1.09	0.1526	5.45	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.09	0.4142	5.45	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	1.09	0.4251	5.45	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	1.09	0.2725	5.45	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	1.09	0.1962	5.45	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	1.09	0.4905	5.45	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*115*	*70-145*	
4-Bromofluorobenzene (SUR)	*117*	*70-145*	
Dibromodifluoromethane (SUR)	*114*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:10	**Site:**			
Sample #:	**370943-021**	**Client Sample #:**	SS37-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:	QC1168597	
Lead	**53.9**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID:	QC1168699	
Arsenic	**3.49**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:	QC1168626	
TPH Gasoline	ND	1.28	0.20352	3.84	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*89*	*60-140*	

Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.11	0.2664	5.55	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	1.11	0.1665	5.55	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.11	0.3219	5.55	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	1.11	0.2442	5.55	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.11	0.8214	5.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	1.11	0.2553	5.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	1.11	0.2331	5.55	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	1.11	0.222	5.55	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.11	0.3663	5.55	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.11	0.3108	5.55	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.11	0.222	5.55	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	1.11	0.1332	5.55	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	1.11	0.1554	5.55	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	1.11	0.3774	5.55	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.11	0.2553	5.55	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	1.11	0.2331	5.55	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	1.11	0.2109	5.55	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	1.11	0.2664	5.55	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	1.11	0.2109	5.55	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	ND	1.11	0.7992	111	ug/Kg		06/23/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.11	0.333	5.55	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	1.11	0.2775	5.55	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	1.11	0.2442	5.55	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	1.11	0.2997	5.55	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.11	0.1887	5.55	ug/Kg		06/23/16	ZZ	
Acetone	**17 J**	1.11	11.1	111	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	1.11	0.1554	5.55	ug/Kg		06/23/16	ZZ	
Benzene	**1.5 J**	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	1.11	0.333	5.55	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	1.11	0.222	5.55	ug/Kg		06/23/16	ZZ	
Bromoform	ND	1.11	0.2109	5.55	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	1.11	0.2442	5.55	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	1.11	0.2109	5.55	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	1.11	0.222	5.55	ug/Kg		06/23/16	ZZ	
Chloroform	ND	1.11	0.1887	5.55	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	1.11	0.2331	5.55	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	1.11	0.222	5.55	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:10	**Site:**			
Sample #:	**370943-021**	**Client Sample #:**	SS37-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.11	0.222	5.55	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.11	0.222	5.55	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	1.11	0.2553	5.55	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	1.11	0.2553	5.55	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.11	0.2331	5.55	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	1.11	0.2775	5.55	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.11	0.4662	5.55	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	1.11	0.4218	5.55	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	1.11	0.1887	5.55	ug/Kg		06/23/16	ZZ	
m and p-Xylene	**0.24 J**	1.11	0.2331	5.55	ug/Kg		06/23/16	ZZ	J
Methylene chloride	**0.28 J**	1.11	0.2442	5.55	ug/Kg		06/23/16	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	1.11	0.2775	5.55	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	1.11	0.3108	5.55	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	1.11	0.1776	5.55	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	1.11	0.2109	5.55	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	1.11	0.1443	5.55	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	1.11	0.3774	5.55	ug/Kg		06/23/16	ZZ	
Styrene	ND	1.11	0.2553	5.55	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.11	9.768	11.1	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.11	0.2109	5.55	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	1.11	0.222	5.55	ug/Kg		06/23/16	ZZ	
Toluene	**0.65 J**	1.11	0.2553	5.55	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	1.11	0.2553	5.55	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	1.11	0.1554	5.55	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.11	0.4218	5.55	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	1.11	0.4329	5.55	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	1.11	0.2775	5.55	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	1.11	0.1998	5.55	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	1.11	0.4995	5.55	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*115*	*70-145*	
4-Bromofluorobenzene (SUR)	*112*	*70-145*	
Dibromodifluoromethane (SUR)	*114*	*70-145*	
Toluene-d8 (SUR)	*95*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:12	**Site:**			
Sample #:	**370943-022**	**Client Sample #:**	SS37-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:14	**Site:**			
Sample #:	**370943-023**	**Client Sample #:**	SS37-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:23	**Site:**			
Sample #:	**370943-024**	**Client Sample #:**	SS39-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**30.5**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**3.22**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	0.98	0.15582	2.94	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*97*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	0.91	0.2184	4.55	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	0.91	0.1365	4.55	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.91	0.2639	4.55	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.91	0.6734	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.91	0.3003	4.55	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.91	0.2548	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	0.91	0.1092	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	0.91	0.3094	4.55	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	0.91	0.2184	4.55	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	ND	0.91	0.6552	91	ug/Kg		06/23/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	0.91	0.273	4.55	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	0.91	0.2457	4.55	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
Acetone	**11 J**	0.91	9.1	91	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
Benzene	**0.31 J**	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	0.91	0.273	4.55	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Bromoform	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Chloroform	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:23	**Site:**			
Sample #:	**370943-024**	**Client Sample #:**	SS39-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.91	0.3822	4.55	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	0.91	0.3458	4.55	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
Methylene chloride	**0.28 J**	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	0.91	0.2548	4.55	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	0.91	0.1456	4.55	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	0.91	0.1183	4.55	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	0.91	0.3094	4.55	ug/Kg		06/23/16	ZZ	
Styrene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.91	8.008	9.1	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Toluene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
trans-1,2-dichloroethene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.91	0.3458	4.55	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	0.91	0.3549	4.55	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	0.91	0.4095	4.55	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*113*	*70-145*	
4-Bromofluorobenzene (SUR)	*111*	*70-145*	
Dibromodifluoromethane (SUR)	*114*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:24	**Site:**			
Sample #:	**370943-025**	**Client Sample #:**	SS39-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:25	**Site:**			
Sample #:	**370943-026**	**Client Sample #:**	SS39-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:44	**Site:**			
Sample #:	**370943-027**	**Client Sample #:**	SS40-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**23.6**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**3.62**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.16	0.18444	3.48	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*82*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.19	0.2856	5.95	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	1.19	0.1785	5.95	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.19	0.3451	5.95	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	1.19	0.2618	5.95	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.19	0.8806	5.95	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	1.19	0.2737	5.95	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	1.19	0.2499	5.95	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	1.19	0.238	5.95	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.19	0.3927	5.95	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.19	0.3332	5.95	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.19	0.238	5.95	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	1.19	0.1428	5.95	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	1.19	0.1666	5.95	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	1.19	0.4046	5.95	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.19	0.2737	5.95	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	1.19	0.2499	5.95	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	1.19	0.2261	5.95	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	1.19	0.2856	5.95	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	1.19	0.2261	5.95	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	**3.4 J**	1.19	0.8568	119	ug/Kg		06/23/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.19	0.357	5.95	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	1.19	0.2975	5.95	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	1.19	0.2618	5.95	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	1.19	0.3213	5.95	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.19	0.2023	5.95	ug/Kg		06/23/16	ZZ	
Acetone	**24 J**	1.19	11.9	119	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	1.19	0.1666	5.95	ug/Kg		06/23/16	ZZ	
Benzene	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
Bromobenzene	ND	1.19	0.357	5.95	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	1.19	0.238	5.95	ug/Kg		06/23/16	ZZ	
Bromoform	ND	1.19	0.2261	5.95	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	1.19	0.2618	5.95	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	1.19	0.2261	5.95	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	1.19	0.238	5.95	ug/Kg		06/23/16	ZZ	
Chloroform	ND	1.19	0.2023	5.95	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	1.19	0.2499	5.95	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	1.19	0.238	5.95	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:44	**Site:**			
Sample #:	**370943-027**	**Client Sample #:**	SS40-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.19	0.238	5.95	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.19	0.238	5.95	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	1.19	0.2737	5.95	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	1.19	0.2737	5.95	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.19	0.2499	5.95	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	1.19	0.2975	5.95	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.19	0.4998	5.95	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	1.19	0.4522	5.95	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	1.19	0.2023	5.95	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	1.19	0.2499	5.95	ug/Kg		06/23/16	ZZ	
Methylene chloride	ND	1.19	0.2618	5.95	ug/Kg		06/23/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.19	0.2975	5.95	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	1.19	0.3332	5.95	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	1.19	0.1904	5.95	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	1.19	0.2261	5.95	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	1.19	0.1547	5.95	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	1.19	0.4046	5.95	ug/Kg		06/23/16	ZZ	
Styrene	ND	1.19	0.2737	5.95	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.19	10.472	11.9	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.19	0.2261	5.95	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	1.19	0.238	5.95	ug/Kg		06/23/16	ZZ	
Toluene	ND	1.19	0.2737	5.95	ug/Kg		06/23/16	ZZ	
trans-1,2-dichloroethene	ND	1.19	0.2737	5.95	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	1.19	0.1666	5.95	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.19	0.4522	5.95	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	1.19	0.4641	5.95	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	1.19	0.2975	5.95	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	1.19	0.2142	5.95	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	1.19	0.5355	5.95	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*123*	*70-145*	
4-Bromofluorobenzene (SUR)	*114*	*70-145*	
Dibromodifluoromethane (SUR)	*110*	*70-145*	
Toluene-d8 (SUR)	*99*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:46	**Site:**			
Sample #:	**370943-028**	**Client Sample #:**	SS40-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:48	**Site:**			
Sample #:	**370943-029**	**Client Sample #:**	SS40-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:58	**Site:**			
Sample #:	**370943-030**	**Client Sample #:**	SS42-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**44.2**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**3.78**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	0.89	0.14151	2.67	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*99*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	0.89	0.2136	4.45	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	0.89	0.1335	4.45	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.89	0.2581	4.45	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	0.89	0.1958	4.45	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.89	0.6586	4.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.89	0.2937	4.45	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.89	0.2492	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	0.89	0.1068	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	0.89	0.1246	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	0.89	0.3026	4.45	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	0.89	0.2136	4.45	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	**3.2 J**	0.89	0.6408	89	ug/Kg		06/23/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	0.89	0.267	4.45	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	0.89	0.2225	4.45	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	0.89	0.1958	4.45	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	0.89	0.2403	4.45	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	**0.88 J**	0.89	0.1513	4.45	ug/Kg		06/23/16	ZZ	J
Acetone	**19 J**	0.89	8.9	89	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	0.89	0.1246	4.45	ug/Kg		06/23/16	ZZ	
Benzene	**0.67 J**	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	0.89	0.267	4.45	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
Bromoform	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	0.89	0.1958	4.45	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
Chloroform	ND	0.89	0.1513	4.45	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:58	**Site:**			
Sample #:	**370943-030**	**Client Sample #:**	SS42-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	0.89	0.2225	4.45	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.89	0.3738	4.45	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	0.89	0.3382	4.45	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	0.89	0.1513	4.45	ug/Kg		06/23/16	ZZ	
m and p-Xylene	**0.21 J**	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	J
Methylene chloride	ND	0.89	0.1958	4.45	ug/Kg		06/23/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.89	0.2225	4.45	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	0.89	0.2492	4.45	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	0.89	0.1424	4.45	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	0.89	0.1157	4.45	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	0.89	0.3026	4.45	ug/Kg		06/23/16	ZZ	
Styrene	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.89	7.832	8.9	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
Toluene	**0.46 J**	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	0.89	0.1246	4.45	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.89	0.3382	4.45	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	0.89	0.3471	4.45	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	0.89	0.2225	4.45	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	0.89	0.4005	4.45	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*119*	*70-145*	
4-Bromofluorobenzene (SUR)	*105*	*70-145*	
Dibromodifluoromethane (SUR)	*108*	*70-145*	
Toluene-d8 (SUR)	*93*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 09:59	**Site:**			
Sample #:	**370943-031**	**Client Sample #:**	SS42-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:00	**Site:**			
Sample #:	**370943-032**	**Client Sample #:**	SS42-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:13	**Site:**			
Sample #:	**370943-033**	**Client Sample #:**	SS41-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**27.6**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**3.18**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.28	0.20352	3.84	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*86*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.32	0.3168	6.6	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	1.32	0.198	6.6	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.32	0.3828	6.6	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	1.32	0.2904	6.6	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.32	0.9768	6.6	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.32	0.4356	6.6	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.32	0.3696	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	1.32	0.1584	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	1.32	0.1848	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	1.32	0.4488	6.6	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	1.32	0.3168	6.6	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	ND	1.32	0.9504	132	ug/Kg		06/23/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.32	0.396	6.6	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	1.32	0.33	6.6	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	1.32	0.2904	6.6	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	1.32	0.3564	6.6	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.32	0.2244	6.6	ug/Kg		06/23/16	ZZ	
Acetone	ND	1.32	13.2	132	ug/Kg		06/23/16	ZZ	
Allyl Chloride	ND	1.32	0.1848	6.6	ug/Kg		06/23/16	ZZ	
Benzene	**1.6 J**	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	1.32	0.396	6.6	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
Bromoform	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	1.32	0.2904	6.6	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
Chloroform	ND	1.32	0.2244	6.6	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:13	**Site:**			
Sample #:	**370943-033**	**Client Sample #:**	SS41-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	1.32	0.33	6.6	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.32	0.5544	6.6	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	1.32	0.5016	6.6	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	1.32	0.2244	6.6	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
Methylene chloride	ND	1.32	0.2904	6.6	ug/Kg		06/23/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.32	0.33	6.6	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	1.32	0.3696	6.6	ug/Kg		06/23/16	ZZ	
N-butylbenzene	**0.33 J**	1.32	0.2112	6.6	ug/Kg		06/23/16	ZZ	J
N-propylbenzene	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	1.32	0.1716	6.6	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	1.32	0.4488	6.6	ug/Kg		06/23/16	ZZ	
Styrene	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.32	11.616	13.2	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
Toluene	**0.54 J**	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	1.32	0.1848	6.6	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.32	0.5016	6.6	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	1.32	0.5148	6.6	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	1.32	0.33	6.6	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	1.32	0.594	6.6	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*119*	*70-145*	
4-Bromofluorobenzene (SUR)	*102*	*70-145*	
Dibromodifluoromethane (SUR)	*112*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:14	**Site:**			
Sample #:	**370943-034**	**Client Sample #:**	SS41-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:15	**Site:**			
Sample #:	**370943-035**	**Client Sample #:**	SS41-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:24	**Site:**			
Sample #:	**370943-036**	**Client Sample #:**	SS43-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**20.4**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**2.47 J**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.04	0.16536	3.12	mg/Kg		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*71*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	0.89	0.2136	4.45	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	0.89	0.1335	4.45	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.89	0.2581	4.45	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	0.89	0.1958	4.45	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.89	0.6586	4.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.89	0.2937	4.45	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.89	0.2492	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	0.89	0.1068	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	0.89	0.1246	4.45	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	0.89	0.3026	4.45	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	0.89	0.2136	4.45	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	ND	0.89	0.6408	89	ug/Kg		06/23/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	0.89	0.267	4.45	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	0.89	0.2225	4.45	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	0.89	0.1958	4.45	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	0.89	0.2403	4.45	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.89	0.1513	4.45	ug/Kg		06/23/16	ZZ	
Acetone	**9.5 J**	0.89	8.9	89	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	0.89	0.1246	4.45	ug/Kg		06/23/16	ZZ	
Benzene	**0.20 J**	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	0.89	0.267	4.45	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
Bromoform	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	0.89	0.1958	4.45	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
Chloroform	ND	0.89	0.1513	4.45	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:24	**Site:**			
Sample #:	**370943-036**	**Client Sample #:**	SS43-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	0.89	0.2225	4.45	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.89	0.3738	4.45	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	0.89	0.3382	4.45	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	0.89	0.1513	4.45	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	0.89	0.1869	4.45	ug/Kg		06/23/16	ZZ	
Methylene chloride	ND	0.89	0.1958	4.45	ug/Kg		06/23/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.89	0.2225	4.45	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	0.89	0.2492	4.45	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	0.89	0.1424	4.45	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	0.89	0.1157	4.45	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	0.89	0.3026	4.45	ug/Kg		06/23/16	ZZ	
Styrene	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.89	7.832	8.9	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.89	0.1691	4.45	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	0.89	0.178	4.45	ug/Kg		06/23/16	ZZ	
Toluene	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
trans-1,2-dichloroethene	ND	0.89	0.2047	4.45	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	0.89	0.1246	4.45	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.89	0.3382	4.45	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	0.89	0.3471	4.45	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	0.89	0.2225	4.45	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	0.89	0.1602	4.45	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	0.89	0.4005	4.45	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*119*	*70-145*	
4-Bromofluorobenzene (SUR)	*110*	*70-145*	
Dibromodifluoromethane (SUR)	*110*	*70-145*	
Toluene-d8 (SUR)	*95*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:24	**Site:**			
Sample #:	**370943-037**	**Client Sample #:**	SS43-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**85.3**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**9.98**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.04	0.16536	3.12	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*99*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	0.94	0.2256	4.7	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	0.94	0.141	4.7	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.94	0.2726	4.7	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	0.94	0.2068	4.7	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.94	0.6956	4.7	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	0.94	0.2162	4.7	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	0.94	0.1974	4.7	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	0.94	0.188	4.7	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.94	0.3102	4.7	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	**0.28 J**	0.94	0.2632	4.7	ug/Kg		06/23/16	ZZ	J
1,2-Dibromo-3-chloropropane	ND	0.94	0.188	4.7	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	0.94	0.1128	4.7	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	0.94	0.1316	4.7	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	0.94	0.3196	4.7	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.94	0.2162	4.7	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	0.94	0.1974	4.7	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	0.94	0.1786	4.7	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	0.94	0.2256	4.7	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	0.94	0.1786	4.7	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	**5.4 J**	0.94	0.6768	94	ug/Kg		06/23/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	0.94	0.282	4.7	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	0.94	0.235	4.7	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	0.94	0.2068	4.7	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	0.94	0.2538	4.7	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	**0.31 J**	0.94	0.1598	4.7	ug/Kg		06/23/16	ZZ	J
Acetone	**19 J**	0.94	9.4	94	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	0.94	0.1316	4.7	ug/Kg		06/23/16	ZZ	
Benzene	**2.3 J**	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	0.94	0.282	4.7	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	0.94	0.188	4.7	ug/Kg		06/23/16	ZZ	
Bromoform	ND	0.94	0.1786	4.7	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	0.94	0.2068	4.7	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	0.94	0.1786	4.7	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	0.94	0.188	4.7	ug/Kg		06/23/16	ZZ	
Chloroform	ND	0.94	0.1598	4.7	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	0.94	0.1974	4.7	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	0.94	0.188	4.7	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:24	**Site:**			
Sample #:	**370943-037**	**Client Sample #:**	SS43-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	0.94	0.188	4.7	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.94	0.188	4.7	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	0.94	0.2162	4.7	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	0.94	0.2162	4.7	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.94	0.1974	4.7	ug/Kg		06/23/16	ZZ	
Ethylbenzene	**0.57 J**	0.94	0.235	4.7	ug/Kg		06/23/16	ZZ	J
Ethyl-tertbutylether (ETBE)	ND	0.94	0.3948	4.7	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	0.94	0.3572	4.7	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	0.94	0.1598	4.7	ug/Kg		06/23/16	ZZ	
m and p-Xylene	**0.74 J**	0.94	0.1974	4.7	ug/Kg		06/23/16	ZZ	J
Methylene chloride	**0.54 J**	0.94	0.2068	4.7	ug/Kg		06/23/16	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	0.94	0.235	4.7	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	0.94	0.2632	4.7	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	0.94	0.1504	4.7	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	0.94	0.1786	4.7	ug/Kg		06/23/16	ZZ	
o-Xylene	**0.36 J**	0.94	0.1222	4.7	ug/Kg		06/23/16	ZZ	J
Sec-butylbenzene	ND	0.94	0.3196	4.7	ug/Kg		06/23/16	ZZ	
Styrene	ND	0.94	0.2162	4.7	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.94	8.272	9.4	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.94	0.1786	4.7	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	0.94	0.188	4.7	ug/Kg		06/23/16	ZZ	
Toluene	**2.3 J**	0.94	0.2162	4.7	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	0.94	0.2162	4.7	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	0.94	0.1316	4.7	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.94	0.3572	4.7	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	0.94	0.3666	4.7	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	0.94	0.235	4.7	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	0.94	0.1692	4.7	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	**1.1 J**	0.94	0.423	4.7	ug/Kg		06/23/16	ZZ	J

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromodifluoromethane (SUR)	*109*	*70-145*	
Toluene-d8 (SUR)	*99*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:26	**Site:**			
Sample #:	**370943-038**	**Client Sample #:**	SS43-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:28	**Site:**			
Sample #:	**370943-039**	**Client Sample #:**	SS43-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:42	**Site:**			
Sample #:	**370943-040**	**Client Sample #:**	SS44-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**79.1**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**3.22**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	0.94	0.14946	2.82	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*100*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	0.91	0.2184	4.55	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	0.91	0.1365	4.55	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.91	0.2639	4.55	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.91	0.6734	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.91	0.3003	4.55	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.91	0.2548	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	0.91	0.1092	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	0.91	0.3094	4.55	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	0.91	0.2184	4.55	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	**2.0 J**	0.91	0.6552	91	ug/Kg		06/23/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	0.91	0.273	4.55	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	0.91	0.2457	4.55	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
Acetone	**16 J**	0.91	9.1	91	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
Benzene	**0.79 J**	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	0.91	0.273	4.55	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Bromoform	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Chloroform	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:42	**Site:**			
Sample #:	**370943-040**	**Client Sample #:**	SS44-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.91	0.3822	4.55	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	0.91	0.3458	4.55	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	0.91	0.1547	4.55	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	0.91	0.1911	4.55	ug/Kg		06/23/16	ZZ	
Methylene chloride	ND	0.91	0.2002	4.55	ug/Kg		06/23/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	0.91	0.2548	4.55	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	0.91	0.1456	4.55	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	0.91	0.1183	4.55	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	0.91	0.3094	4.55	ug/Kg		06/23/16	ZZ	
Styrene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.91	8.008	9.1	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.91	0.1729	4.55	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	0.91	0.182	4.55	ug/Kg		06/23/16	ZZ	
Toluene	**0.39 J**	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	0.91	0.2093	4.55	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	0.91	0.1274	4.55	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.91	0.3458	4.55	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	0.91	0.3549	4.55	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	0.91	0.2275	4.55	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	0.91	0.1638	4.55	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	0.91	0.4095	4.55	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*124*	*70-145*	
4-Bromofluorobenzene (SUR)	*106*	*70-145*	
Dibromodifluoromethane (SUR)	*106*	*70-145*	
Toluene-d8 (SUR)	*94*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:42	**Site:**			
Sample #:	**370943-041**	**Client Sample #:**	SS44-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:44	**Site:**			
Sample #:	**370943-042**	**Client Sample #:**	SS44-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 10:45	**Site:**			
Sample #:	**370943-043**	**Client Sample #:**	SS44-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:00	**Site:**			
Sample #:	**370943-044**	**Client Sample #:**	SS45-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**18.3**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**2.34 J**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	0.93	0.14787	2.79	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*100*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.16	0.2784	5.8	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	1.16	0.174	5.8	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.16	0.3364	5.8	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	1.16	0.2552	5.8	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.16	0.8584	5.8	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	1.16	0.2668	5.8	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	1.16	0.2436	5.8	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	1.16	0.232	5.8	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.16	0.3828	5.8	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.16	0.3248	5.8	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.16	0.232	5.8	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	1.16	0.1392	5.8	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	1.16	0.1624	5.8	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	1.16	0.3944	5.8	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.16	0.2668	5.8	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	1.16	0.2436	5.8	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	1.16	0.2204	5.8	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	1.16	0.2784	5.8	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	1.16	0.2204	5.8	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	**10 J**	1.16	0.8352	116	ug/Kg		06/23/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.16	0.348	5.8	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	1.16	0.29	5.8	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	1.16	0.2552	5.8	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	1.16	0.3132	5.8	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.16	0.1972	5.8	ug/Kg		06/23/16	ZZ	
Acetone	**53 J**	1.16	11.6	116	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	1.16	0.1624	5.8	ug/Kg		06/23/16	ZZ	
Benzene	**1.1 J**	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	1.16	0.348	5.8	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	1.16	0.232	5.8	ug/Kg		06/23/16	ZZ	
Bromoform	ND	1.16	0.2204	5.8	ug/Kg		06/23/16	ZZ	
Bromomethane	**2.0 J**	1.16	0.2552	5.8	ug/Kg		06/23/16	ZZ	J
Carbon Tetrachloride	ND	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	1.16	0.2204	5.8	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	1.16	0.232	5.8	ug/Kg		06/23/16	ZZ	
Chloroform	ND	1.16	0.1972	5.8	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	1.16	0.2436	5.8	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	1.16	0.232	5.8	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:00	**Site:**			
Sample #:	**370943-044**	**Client Sample #:**	SS45-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.16	0.232	5.8	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.16	0.232	5.8	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	1.16	0.2668	5.8	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	1.16	0.2668	5.8	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.16	0.2436	5.8	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	1.16	0.29	5.8	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.16	0.4872	5.8	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	1.16	0.4408	5.8	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	1.16	0.1972	5.8	ug/Kg		06/23/16	ZZ	
m and p-Xylene	ND	1.16	0.2436	5.8	ug/Kg		06/23/16	ZZ	
Methylene chloride	**0.34 J**	1.16	0.2552	5.8	ug/Kg		06/23/16	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	1.16	0.29	5.8	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	1.16	0.3248	5.8	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	1.16	0.1856	5.8	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	1.16	0.2204	5.8	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	1.16	0.1508	5.8	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	1.16	0.3944	5.8	ug/Kg		06/23/16	ZZ	
Styrene	ND	1.16	0.2668	5.8	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.16	10.208	11.6	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.16	0.2204	5.8	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	1.16	0.232	5.8	ug/Kg		06/23/16	ZZ	
Toluene	**0.74 J**	1.16	0.2668	5.8	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	1.16	0.2668	5.8	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	1.16	0.1624	5.8	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.16	0.4408	5.8	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	1.16	0.4524	5.8	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	1.16	0.29	5.8	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	1.16	0.2088	5.8	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	1.16	0.522	5.8	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromodifluoromethane (SUR)	*114*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:00	**Site:**			
Sample #:	**370943-045**	**Client Sample #:**	SS45-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:01	**Site:**			
Sample #:	**370943-046**	**Client Sample #:**	SS45-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:02	**Site:**			
Sample #:	**370943-047**	**Client Sample #:**	SS45-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:15	**Site:**			
Sample #:	**370943-048**	**Client Sample #:**	SS47-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**310**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**2.50 J**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.32	0.20988	3.96	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*83*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.32	0.3168	6.6	ug/Kg		06/23/16	ZZ	
1,1,1-Trichloroethane	ND	1.32	0.198	6.6	ug/Kg		06/23/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.32	0.3828	6.6	ug/Kg		06/23/16	ZZ	
1,1,2-Trichloroethane	ND	1.32	0.2904	6.6	ug/Kg		06/23/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.32	0.9768	6.6	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethane	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
1,1-Dichloroethene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
1,1-Dichloropropene	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
1,2,3-Trichloropropane	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.32	0.4356	6.6	ug/Kg		06/23/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.32	0.3696	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dibromoethane	ND	1.32	0.1584	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dichlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dichloroethane	ND	1.32	0.1848	6.6	ug/Kg		06/23/16	ZZ	
1,2-Dichloropropane	ND	1.32	0.4488	6.6	ug/Kg		06/23/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
1,3-Dichlorobenzene	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
1,3-Dichloropropane	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
1,4-Dichlorobenzene	ND	1.32	0.3168	6.6	ug/Kg		06/23/16	ZZ	
2,2-Dichloropropane	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
2-Butanone (MEK)	**3.9 J**	1.32	0.9504	132	ug/Kg		06/23/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.32	0.396	6.6	ug/Kg		06/23/16	ZZ	
2-Chlorotoluene	ND	1.32	0.33	6.6	ug/Kg		06/23/16	ZZ	
4-Chlorotoluene	ND	1.32	0.2904	6.6	ug/Kg		06/23/16	ZZ	
4-Isopropyltoluene	ND	1.32	0.3564	6.6	ug/Kg		06/23/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.32	0.2244	6.6	ug/Kg		06/23/16	ZZ	
Acetone	**31 J**	1.32	13.2	132	ug/Kg		06/23/16	ZZ	J
Allyl Chloride	ND	1.32	0.1848	6.6	ug/Kg		06/23/16	ZZ	
Benzene	**0.51 J**	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	J
Bromobenzene	ND	1.32	0.396	6.6	ug/Kg		06/23/16	ZZ	
Bromochloromethane	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Bromodichloromethane	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
Bromoform	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
Bromomethane	ND	1.32	0.2904	6.6	ug/Kg		06/23/16	ZZ	
Carbon Tetrachloride	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Chlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Chlorodibromomethane	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
Chloroethane	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
Chloroform	ND	1.32	0.2244	6.6	ug/Kg		06/23/16	ZZ	
Chloromethane	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
cis-1,2-Dichloroethene	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:15	**Site:**			
Sample #:	**370943-048**	**Client Sample #:**	SS47-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
Dibromomethane	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
Dichlorodifluoromethane	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	
Ethylbenzene	ND	1.32	0.33	6.6	ug/Kg		06/23/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.32	0.5544	6.6	ug/Kg		06/23/16	ZZ	
Hexachlorobutadiene	ND	1.32	0.5016	6.6	ug/Kg		06/23/16	ZZ	
Isopropylbenzene	ND	1.32	0.2244	6.6	ug/Kg		06/23/16	ZZ	
m and p-Xylene	**0.31 J**	1.32	0.2772	6.6	ug/Kg		06/23/16	ZZ	J
Methylene chloride	ND	1.32	0.2904	6.6	ug/Kg		06/23/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.32	0.33	6.6	ug/Kg		06/23/16	ZZ	
Naphthalene	ND	1.32	0.3696	6.6	ug/Kg		06/23/16	ZZ	
N-butylbenzene	ND	1.32	0.2112	6.6	ug/Kg		06/23/16	ZZ	
N-propylbenzene	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
o-Xylene	ND	1.32	0.1716	6.6	ug/Kg		06/23/16	ZZ	
Sec-butylbenzene	ND	1.32	0.4488	6.6	ug/Kg		06/23/16	ZZ	
Styrene	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.32	11.616	13.2	ug/Kg		06/23/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.32	0.2508	6.6	ug/Kg		06/23/16	ZZ	
Tert-butylbenzene	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Tetrachloroethene	ND	1.32	0.264	6.6	ug/Kg		06/23/16	ZZ	
Toluene	**0.42 J**	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	J
trans-1,2-dichloroethene	ND	1.32	0.3036	6.6	ug/Kg		06/23/16	ZZ	
trans-1,3-dichloropropene	ND	1.32	0.1848	6.6	ug/Kg		06/23/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.32	0.5016	6.6	ug/Kg		06/23/16	ZZ	
Trichloroethene	ND	1.32	0.5148	6.6	ug/Kg		06/23/16	ZZ	
Trichlorofluoromethane	ND	1.32	0.33	6.6	ug/Kg		06/23/16	ZZ	
Vinyl Chloride	ND	1.32	0.2376	6.6	ug/Kg		06/23/16	ZZ	
Xylenes (Total)	ND	1.32	0.594	6.6	ug/Kg		06/23/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*123*	*70-145*	
4-Bromofluorobenzene (SUR)	*123*	*70-145*	
Dibromodifluoromethane (SUR)	*110*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:16	**Site:**			
Sample #:	**370943-049**	**Client Sample #:**	SS47-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:17	**Site:**			
Sample #:	**370943-050**	**Client Sample #:**	SS47-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:25	**Site:**			
Sample #:	**370943-051**	**Client Sample #:**	SS48-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**24.7**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**1.621 J**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.22	0.19398	3.66	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*87*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.32	0.3168	6.6	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.32	0.198	6.6	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.32	0.3828	6.6	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.32	0.2904	6.6	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.32	0.9768	6.6	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	1.32	0.3036	6.6	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	1.32	0.2772	6.6	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.32	0.264	6.6	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.32	0.4356	6.6	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.32	0.3696	6.6	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.32	0.264	6.6	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	1.32	0.1584	6.6	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	1.32	0.1848	6.6	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	1.32	0.4488	6.6	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.32	0.3036	6.6	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.32	0.2772	6.6	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	1.32	0.2508	6.6	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.32	0.3168	6.6	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	1.32	0.2508	6.6	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	**2.3 J**	1.32	0.9504	132	ug/Kg		06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.32	0.396	6.6	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	1.32	0.33	6.6	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	1.32	0.2904	6.6	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	1.32	0.3564	6.6	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.32	0.2244	6.6	ug/Kg		06/24/16	ZZ	
Acetone	**21 J**	1.32	13.2	132	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	1.32	0.1848	6.6	ug/Kg		06/24/16	ZZ	
Benzene	**0.59 J**	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	1.32	0.396	6.6	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	1.32	0.264	6.6	ug/Kg		06/24/16	ZZ	
Bromoform	ND	1.32	0.2508	6.6	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	1.32	0.2904	6.6	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	1.32	0.2508	6.6	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	1.32	0.264	6.6	ug/Kg		06/24/16	ZZ	
Chloroform	ND	1.32	0.2244	6.6	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	1.32	0.2772	6.6	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.32	0.264	6.6	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:25	**Site:**			
Sample #:	**370943-051**	**Client Sample #:**	SS48-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.32	0.264	6.6	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.32	0.264	6.6	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	1.32	0.3036	6.6	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.32	0.3036	6.6	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.32	0.2772	6.6	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	1.32	0.33	6.6	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.32	0.5544	6.6	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	1.32	0.5016	6.6	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	1.32	0.2244	6.6	ug/Kg		06/24/16	ZZ	
m and p-Xylene	ND	1.32	0.2772	6.6	ug/Kg		06/24/16	ZZ	
Methylene chloride	ND	1.32	0.2904	6.6	ug/Kg		06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.32	0.33	6.6	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	1.32	0.3696	6.6	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	1.32	0.2112	6.6	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	1.32	0.2508	6.6	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	1.32	0.1716	6.6	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	1.32	0.4488	6.6	ug/Kg		06/24/16	ZZ	
Styrene	ND	1.32	0.3036	6.6	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.32	11.616	13.2	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.32	0.2508	6.6	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	1.32	0.264	6.6	ug/Kg		06/24/16	ZZ	
Toluene	**0.37 J**	1.32	0.3036	6.6	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.32	0.3036	6.6	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.32	0.1848	6.6	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.32	0.5016	6.6	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	1.32	0.5148	6.6	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	1.32	0.33	6.6	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	1.32	0.2376	6.6	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	1.32	0.594	6.6	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*123*	*70-145*	
4-Bromofluorobenzene (SUR)	*119*	*70-145*	
Dibromodifluoromethane (SUR)	*115*	*70-145*	
Toluene-d8 (SUR)	*106*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:26	**Site:**			
Sample #:	**370943-052**	**Client Sample #:**	SS48-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:27	**Site:**			
Sample #:	**370943-053**	**Client Sample #:**	SS48-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:43	**Site:**			
Sample #:	**370943-054**	**Client Sample #:**	SS49-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168597	
Lead	**74.0**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168699	
Arsenic	**2.12 J**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1	0.159	3	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*94*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.25	0.3	6.25	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.25	0.1875	6.25	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.25	0.3625	6.25	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.25	0.275	6.25	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.25	0.925	6.25	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	1.25	0.2875	6.25	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	1.25	0.2625	6.25	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.25	0.25	6.25	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.25	0.4125	6.25	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.25	0.35	6.25	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.25	0.25	6.25	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	1.25	0.15	6.25	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	1.25	0.175	6.25	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	1.25	0.425	6.25	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.25	0.2875	6.25	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.25	0.2625	6.25	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	1.25	0.2375	6.25	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.25	0.3	6.25	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	1.25	0.2375	6.25	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	**3.5 J**	1.25	0.9	125	ug/Kg		06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.25	0.375	6.25	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	1.25	0.3125	6.25	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	1.25	0.275	6.25	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	1.25	0.3375	6.25	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.25	0.2125	6.25	ug/Kg		06/24/16	ZZ	
Acetone	**26 J**	1.25	12.5	125	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	1.25	0.175	6.25	ug/Kg		06/24/16	ZZ	
Benzene	**1.4 J**	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	1.25	0.375	6.25	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	1.25	0.25	6.25	ug/Kg		06/24/16	ZZ	
Bromoform	ND	1.25	0.2375	6.25	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	1.25	0.275	6.25	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	1.25	0.2375	6.25	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	1.25	0.25	6.25	ug/Kg		06/24/16	ZZ	
Chloroform	ND	1.25	0.2125	6.25	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	1.25	0.2625	6.25	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.25	0.25	6.25	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:43	**Site:**			
Sample #:	**370943-054**	**Client Sample #:**	SS49-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.25	0.25	6.25	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.25	0.25	6.25	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	1.25	0.2875	6.25	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.25	0.2875	6.25	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.25	0.2625	6.25	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	1.25	0.3125	6.25	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.25	0.525	6.25	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	1.25	0.475	6.25	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	1.25	0.2125	6.25	ug/Kg		06/24/16	ZZ	
m and p-Xylene	**0.30 J**	1.25	0.2625	6.25	ug/Kg		06/24/16	ZZ	J
Methylene chloride	ND	1.25	0.275	6.25	ug/Kg		06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.25	0.3125	6.25	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	1.25	0.35	6.25	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	1.25	0.2	6.25	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	1.25	0.2375	6.25	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	1.25	0.1625	6.25	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	1.25	0.425	6.25	ug/Kg		06/24/16	ZZ	
Styrene	ND	1.25	0.2875	6.25	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.25	11	12.5	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.25	0.2375	6.25	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	1.25	0.25	6.25	ug/Kg		06/24/16	ZZ	
Toluene	**0.78 J**	1.25	0.2875	6.25	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.25	0.2875	6.25	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.25	0.175	6.25	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.25	0.475	6.25	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	1.25	0.4875	6.25	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	1.25	0.3125	6.25	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	1.25	0.225	6.25	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	1.25	0.5625	6.25	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*120*	*70-145*	
4-Bromofluorobenzene (SUR)	*112*	*70-145*	
Dibromodifluoromethane (SUR)	*108*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:44	**Site:**			
Sample #:	**370943-055**	**Client Sample #:**	SS49-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 11:45	**Site:**			
Sample #:	**370943-056**	**Client Sample #:**	SS49-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 12:46	**Site:**			
Sample #:	**370943-057**	**Client Sample #:**	SS50-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168598	
Lead	**25.2**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168700	
Arsenic	**3.09**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	1.09	0.17331	3.27	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*94*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.02	0.2448	5.1	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.02	0.153	5.1	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.02	0.2958	5.1	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.02	0.2244	5.1	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.02	0.7548	5.1	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	1.02	0.2346	5.1	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	1.02	0.2142	5.1	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.02	0.204	5.1	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.02	0.3366	5.1	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.02	0.2856	5.1	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.02	0.204	5.1	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	1.02	0.1224	5.1	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	1.02	0.1428	5.1	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	1.02	0.3468	5.1	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.02	0.2346	5.1	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.02	0.2142	5.1	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	1.02	0.1938	5.1	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.02	0.2448	5.1	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	1.02	0.1938	5.1	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	**1.5 J**	1.02	0.7344	102	ug/Kg		06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.02	0.306	5.1	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	1.02	0.255	5.1	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	1.02	0.2244	5.1	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	1.02	0.2754	5.1	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.02	0.1734	5.1	ug/Kg		06/24/16	ZZ	
Acetone	**14 J**	1.02	10.2	102	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	1.02	0.1428	5.1	ug/Kg		06/24/16	ZZ	
Benzene	**1.2 J**	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	1.02	0.306	5.1	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	1.02	0.204	5.1	ug/Kg		06/24/16	ZZ	
Bromoform	ND	1.02	0.1938	5.1	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	1.02	0.2244	5.1	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	1.02	0.1938	5.1	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	1.02	0.204	5.1	ug/Kg		06/24/16	ZZ	
Chloroform	ND	1.02	0.1734	5.1	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	1.02	0.2142	5.1	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.02	0.204	5.1	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 12:46	**Site:**			
Sample #:	**370943-057**	**Client Sample #:**	SS50-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.02	0.204	5.1	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.02	0.204	5.1	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	1.02	0.2346	5.1	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.02	0.2346	5.1	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.02	0.2142	5.1	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	1.02	0.255	5.1	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.02	0.4284	5.1	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	1.02	0.3876	5.1	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	1.02	0.1734	5.1	ug/Kg		06/24/16	ZZ	
m and p-Xylene	ND	1.02	0.2142	5.1	ug/Kg		06/24/16	ZZ	
Methylene chloride	ND	1.02	0.2244	5.1	ug/Kg		06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.02	0.255	5.1	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	1.02	0.2856	5.1	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	1.02	0.1632	5.1	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	1.02	0.1938	5.1	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	1.02	0.1326	5.1	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	1.02	0.3468	5.1	ug/Kg		06/24/16	ZZ	
Styrene	ND	1.02	0.2346	5.1	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.02	8.976	10.2	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.02	0.1938	5.1	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	1.02	0.204	5.1	ug/Kg		06/24/16	ZZ	
Toluene	**0.48 J**	1.02	0.2346	5.1	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.02	0.2346	5.1	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.02	0.1428	5.1	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.02	0.3876	5.1	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	1.02	0.3978	5.1	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	1.02	0.255	5.1	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	1.02	0.1836	5.1	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	1.02	0.459	5.1	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*118*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromodifluoromethane (SUR)	*109*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 12:47	**Site:**			
Sample #:	**370943-058**	**Client Sample #:**	SS50-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 12:48	**Site:**			
Sample #:	**370943-059**	**Client Sample #:**	SS50-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:01	**Site:**			
Sample #:	**370943-060**	**Client Sample #:**	SS46-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:	QC1168598	
Lead	**19.0**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID:	QC1168700	
Arsenic	**3.79**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:	QC1168626	
TPH Gasoline	ND	1.06	0.16854	3.18	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*95*	*60-140*	

Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.22	0.2928	6.1	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.22	0.183	6.1	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.22	0.3538	6.1	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.22	0.2684	6.1	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.22	0.9028	6.1	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	1.22	0.2806	6.1	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	1.22	0.2562	6.1	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.22	0.244	6.1	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.22	0.4026	6.1	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.22	0.3416	6.1	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.22	0.244	6.1	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	1.22	0.1464	6.1	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	1.22	0.1708	6.1	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	1.22	0.4148	6.1	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.22	0.2806	6.1	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.22	0.2562	6.1	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	1.22	0.2318	6.1	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.22	0.2928	6.1	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	1.22	0.2318	6.1	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	**0.90 J**	1.22	0.8784	122	ug/Kg		06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.22	0.366	6.1	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	1.22	0.305	6.1	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	1.22	0.2684	6.1	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	1.22	0.3294	6.1	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.22	0.2074	6.1	ug/Kg		06/24/16	ZZ	
Acetone	**17 J**	1.22	12.2	122	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	1.22	0.1708	6.1	ug/Kg		06/24/16	ZZ	
Benzene	**1.7 J**	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	1.22	0.366	6.1	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	1.22	0.244	6.1	ug/Kg		06/24/16	ZZ	
Bromoform	ND	1.22	0.2318	6.1	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	1.22	0.2684	6.1	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	1.22	0.2318	6.1	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	1.22	0.244	6.1	ug/Kg		06/24/16	ZZ	
Chloroform	ND	1.22	0.2074	6.1	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	1.22	0.2562	6.1	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.22	0.244	6.1	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:01	**Site:**			
Sample #:	**370943-060**	**Client Sample #:**	SS46-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.22	0.244	6.1	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.22	0.244	6.1	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	1.22	0.2806	6.1	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.22	0.2806	6.1	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.22	0.2562	6.1	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	1.22	0.305	6.1	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.22	0.5124	6.1	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	1.22	0.4636	6.1	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	1.22	0.2074	6.1	ug/Kg		06/24/16	ZZ	
m and p-Xylene	ND	1.22	0.2562	6.1	ug/Kg		06/24/16	ZZ	
Methylene chloride	ND	1.22	0.2684	6.1	ug/Kg		06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.22	0.305	6.1	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	1.22	0.3416	6.1	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	1.22	0.1952	6.1	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	1.22	0.2318	6.1	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	1.22	0.1586	6.1	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	1.22	0.4148	6.1	ug/Kg		06/24/16	ZZ	
Styrene	ND	1.22	0.2806	6.1	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.22	10.736	12.2	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.22	0.2318	6.1	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	1.22	0.244	6.1	ug/Kg		06/24/16	ZZ	
Toluene	**0.77 J**	1.22	0.2806	6.1	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.22	0.2806	6.1	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.22	0.1708	6.1	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.22	0.4636	6.1	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	1.22	0.4758	6.1	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	1.22	0.305	6.1	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	1.22	0.2196	6.1	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	1.22	0.549	6.1	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*119*	*70-145*	
4-Bromofluorobenzene (SUR)	*115*	*70-145*	
Dibromodifluoromethane (SUR)	*117*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:01	**Site:**			
Sample #:	**370943-061**	**Client Sample #:**	SS46-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:02	**Site:**			
Sample #:	**370943-062**	**Client Sample #:**	SS46-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:03	**Site:**			
Sample #:	**370943-063**	**Client Sample #:**	SS46-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:10	**Site:**			
Sample #:	**370943-064**	**Client Sample #:**	SS35-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168598	
Lead	**51.4**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168700	
Arsenic	**4.20**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168626	
TPH Gasoline	ND	0.94	0.14946	2.82	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*97*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	0.83	0.1992	4.15	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	0.83	0.1245	4.15	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.83	0.2407	4.15	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	0.83	0.1826	4.15	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.83	0.6142	4.15	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	0.83	0.1909	4.15	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	0.83	0.1743	4.15	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	0.83	0.166	4.15	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.83	0.2739	4.15	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.83	0.2324	4.15	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.83	0.166	4.15	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	0.83	0.0996	4.15	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	0.83	0.1162	4.15	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	0.83	0.2822	4.15	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.83	0.1909	4.15	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	0.83	0.1743	4.15	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	0.83	0.1577	4.15	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	0.83	0.1992	4.15	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	0.83	0.1577	4.15	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	**2.3 J**	0.83	0.5976	83	ug/Kg		06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	0.83	0.249	4.15	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	0.83	0.2075	4.15	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	0.83	0.1826	4.15	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	0.83	0.2241	4.15	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.83	0.1411	4.15	ug/Kg		06/24/16	ZZ	
Acetone	**20 J**	0.83	8.3	83	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	0.83	0.1162	4.15	ug/Kg		06/24/16	ZZ	
Benzene	**0.95 J**	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	0.83	0.249	4.15	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	0.83	0.166	4.15	ug/Kg		06/24/16	ZZ	
Bromoform	ND	0.83	0.1577	4.15	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	0.83	0.1826	4.15	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	0.83	0.1577	4.15	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	0.83	0.166	4.15	ug/Kg		06/24/16	ZZ	
Chloroform	ND	0.83	0.1411	4.15	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	0.83	0.1743	4.15	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	0.83	0.166	4.15	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:10	**Site:**			
Sample #:	**370943-064**	**Client Sample #:**	SS35-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	0.83	0.166	4.15	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.83	0.166	4.15	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	0.83	0.1909	4.15	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	0.83	0.1909	4.15	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.83	0.1743	4.15	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	0.83	0.2075	4.15	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.83	0.3486	4.15	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	0.83	0.3154	4.15	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	0.83	0.1411	4.15	ug/Kg		06/24/16	ZZ	
m and p-Xylene	ND	0.83	0.1743	4.15	ug/Kg		06/24/16	ZZ	
Methylene chloride	ND	0.83	0.1826	4.15	ug/Kg		06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.83	0.2075	4.15	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	0.83	0.2324	4.15	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	0.83	0.1328	4.15	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	0.83	0.1577	4.15	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	0.83	0.1079	4.15	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	0.83	0.2822	4.15	ug/Kg		06/24/16	ZZ	
Styrene	ND	0.83	0.1909	4.15	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.83	7.304	8.3	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.83	0.1577	4.15	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	0.83	0.166	4.15	ug/Kg		06/24/16	ZZ	
Toluene	**0.40 J**	0.83	0.1909	4.15	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	0.83	0.1909	4.15	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	0.83	0.1162	4.15	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.83	0.3154	4.15	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	0.83	0.3237	4.15	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	0.83	0.2075	4.15	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	0.83	0.1494	4.15	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	0.83	0.3735	4.15	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*122*	*70-145*	
4-Bromofluorobenzene (SUR)	*117*	*70-145*	
Dibromodifluoromethane (SUR)	*111*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:11	**Site:**			
Sample #:	**370943-065**	**Client Sample #:**	SS35-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:12	**Site:**			
Sample #:	**370943-066**	**Client Sample #:**	SS35-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:19	**Site:**			
Sample #:	**370943-067**	**Client Sample #:**	SS38-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168598	
Lead	**107**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168700	
Arsenic	**2.40 J**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168647	
TPH Gasoline	ND	0.88	0.13992	2.64	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*100*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	0.98	0.2352	4.9	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	0.98	0.147	4.9	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.98	0.2842	4.9	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	0.98	0.2156	4.9	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.98	0.7252	4.9	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	0.98	0.2254	4.9	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	0.98	0.2058	4.9	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	0.98	0.196	4.9	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.98	0.3234	4.9	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.98	0.2744	4.9	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.98	0.196	4.9	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	0.98	0.1176	4.9	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	0.98	0.1372	4.9	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	0.98	0.3332	4.9	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.98	0.2254	4.9	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	0.98	0.2058	4.9	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	0.98	0.1862	4.9	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	0.98	0.2352	4.9	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	0.98	0.1862	4.9	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	**0.83 J**	0.98	0.7056	98	ug/Kg		06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	0.98	0.294	4.9	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	0.98	0.245	4.9	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	0.98	0.2156	4.9	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	0.98	0.2646	4.9	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.98	0.1666	4.9	ug/Kg		06/24/16	ZZ	
Acetone	**14 J**	0.98	9.8	98	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	0.98	0.1372	4.9	ug/Kg		06/24/16	ZZ	
Benzene	**0.85 J**	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	0.98	0.294	4.9	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	0.98	0.196	4.9	ug/Kg		06/24/16	ZZ	
Bromoform	ND	0.98	0.1862	4.9	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	0.98	0.2156	4.9	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	0.98	0.1862	4.9	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	0.98	0.196	4.9	ug/Kg		06/24/16	ZZ	
Chloroform	ND	0.98	0.1666	4.9	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	0.98	0.2058	4.9	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	0.98	0.196	4.9	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:19	**Site:**			
Sample #:	**370943-067**	**Client Sample #:**	SS38-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	0.98	0.196	4.9	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.98	0.196	4.9	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	0.98	0.2254	4.9	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	0.98	0.2254	4.9	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.98	0.2058	4.9	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	0.98	0.245	4.9	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.98	0.4116	4.9	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	0.98	0.3724	4.9	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	0.98	0.1666	4.9	ug/Kg		06/24/16	ZZ	
m and p-Xylene	ND	0.98	0.2058	4.9	ug/Kg		06/24/16	ZZ	
Methylene chloride	ND	0.98	0.2156	4.9	ug/Kg		06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.98	0.245	4.9	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	0.98	0.2744	4.9	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	0.98	0.1568	4.9	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	0.98	0.1862	4.9	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	0.98	0.1274	4.9	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	0.98	0.3332	4.9	ug/Kg		06/24/16	ZZ	
Styrene	ND	0.98	0.2254	4.9	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.98	8.624	9.8	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.98	0.1862	4.9	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	0.98	0.196	4.9	ug/Kg		06/24/16	ZZ	
Toluene	**0.40 J**	0.98	0.2254	4.9	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	0.98	0.2254	4.9	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	0.98	0.1372	4.9	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.98	0.3724	4.9	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	0.98	0.3822	4.9	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	0.98	0.245	4.9	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	0.98	0.1764	4.9	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	0.98	0.441	4.9	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*70-145*	
4-Bromofluorobenzene (SUR)	*113*	*70-145*	
Dibromodifluoromethane (SUR)	*111*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:20	**Site:**			
Sample #:	**370943-068**	**Client Sample #:**	SS38-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:21	**Site:**			
Sample #:	**370943-069**	**Client Sample #:**	SS38-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:38	**Site:**			
Sample #:	**370943-070**	**Client Sample #:**	SS36-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168598	
Lead	**52.3**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168700	
Arsenic	**2.45 J**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	J
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168647	
TPH Gasoline	ND	1.11	0.17649	3.33	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*91*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168567	
1,1,1,2-Tetrachloroethane	ND	1.16	0.2784	5.8	ug/Kg		06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.16	0.174	5.8	ug/Kg		06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.16	0.3364	5.8	ug/Kg		06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.16	0.2552	5.8	ug/Kg		06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.16	0.8584	5.8	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethane	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
1,1-Dichloroethene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
1,1-Dichloropropene	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.16	0.3828	5.8	ug/Kg		06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.16	0.3248	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dibromoethane	ND	1.16	0.1392	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dichloroethane	ND	1.16	0.1624	5.8	ug/Kg		06/24/16	ZZ	
1,2-Dichloropropane	ND	1.16	0.3944	5.8	ug/Kg		06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
1,3-Dichloropropane	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.16	0.2784	5.8	ug/Kg		06/24/16	ZZ	
2,2-Dichloropropane	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
2-Butanone (MEK)	**2.8 J**	1.16	0.8352	116	ug/Kg		06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.16	0.348	5.8	ug/Kg		06/24/16	ZZ	
2-Chlorotoluene	ND	1.16	0.29	5.8	ug/Kg		06/24/16	ZZ	
4-Chlorotoluene	ND	1.16	0.2552	5.8	ug/Kg		06/24/16	ZZ	
4-Isopropyltoluene	ND	1.16	0.3132	5.8	ug/Kg		06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.16	0.1972	5.8	ug/Kg		06/24/16	ZZ	
Acetone	**30 J**	1.16	11.6	116	ug/Kg		06/24/16	ZZ	J
Allyl Chloride	ND	1.16	0.1624	5.8	ug/Kg		06/24/16	ZZ	
Benzene	**1.5 J**	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	J
Bromobenzene	ND	1.16	0.348	5.8	ug/Kg		06/24/16	ZZ	
Bromochloromethane	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Bromodichloromethane	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
Bromoform	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
Bromomethane	ND	1.16	0.2552	5.8	ug/Kg		06/24/16	ZZ	
Carbon Tetrachloride	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Chlorobenzene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Chlorodibromomethane	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
Chloroethane	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
Chloroform	ND	1.16	0.1972	5.8	ug/Kg		06/24/16	ZZ	
Chloromethane	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:38	**Site:**			
Sample #:	**370943-070**	**Client Sample #:**	SS36-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
Dibromomethane	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
Ethylbenzene	ND	1.16	0.29	5.8	ug/Kg		06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.16	0.4872	5.8	ug/Kg		06/24/16	ZZ	
Hexachlorobutadiene	ND	1.16	0.4408	5.8	ug/Kg		06/24/16	ZZ	
Isopropylbenzene	ND	1.16	0.1972	5.8	ug/Kg		06/24/16	ZZ	
m and p-Xylene	ND	1.16	0.2436	5.8	ug/Kg		06/24/16	ZZ	
Methylene chloride	ND	1.16	0.2552	5.8	ug/Kg		06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.16	0.29	5.8	ug/Kg		06/24/16	ZZ	
Naphthalene	ND	1.16	0.3248	5.8	ug/Kg		06/24/16	ZZ	
N-butylbenzene	ND	1.16	0.1856	5.8	ug/Kg		06/24/16	ZZ	
N-propylbenzene	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
o-Xylene	ND	1.16	0.1508	5.8	ug/Kg		06/24/16	ZZ	
Sec-butylbenzene	ND	1.16	0.3944	5.8	ug/Kg		06/24/16	ZZ	
Styrene	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.16	10.208	11.6	ug/Kg		06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.16	0.2204	5.8	ug/Kg		06/24/16	ZZ	
Tert-butylbenzene	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Tetrachloroethene	ND	1.16	0.232	5.8	ug/Kg		06/24/16	ZZ	
Toluene	**0.57 J**	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.16	0.2668	5.8	ug/Kg		06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.16	0.1624	5.8	ug/Kg		06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.16	0.4408	5.8	ug/Kg		06/24/16	ZZ	
Trichloroethene	ND	1.16	0.4524	5.8	ug/Kg		06/24/16	ZZ	
Trichlorofluoromethane	ND	1.16	0.29	5.8	ug/Kg		06/24/16	ZZ	
Vinyl Chloride	ND	1.16	0.2088	5.8	ug/Kg		06/24/16	ZZ	
Xylenes (Total)	ND	1.16	0.522	5.8	ug/Kg		06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*120*	*70-145*	
4-Bromofluorobenzene (SUR)	*116*	*70-145*	
Dibromodifluoromethane (SUR)	*111*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:37	**Site:**			
Sample #:	**370943-071**	**Client Sample #:**	SS36-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:38	**Site:**			
Sample #:	**370943-072**	**Client Sample #:**	SS36-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:50	**Site:**			
Sample #:	**370943-073**	**Client Sample #:**	SS91-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168598		
Lead	**26.3**	1	0.32	0.5	mg/Kg	06/23/16	06/24/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168700		
Arsenic	**4.28**	10	0.2	3	mg/Kg	06/24/16	06/29/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:51	**Site:**			
Sample #:	**370943-074**	**Client Sample #:**	SS91-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 13:52	**Site:**			
Sample #:	**370943-075**	**Client Sample #:**	SS91-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 14:06	**Site:**			
Sample #:	**370943-076**	**Client Sample #:**	EQBL-062216	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3010A							QCBatchID:	QC1168551	
Lead	ND	1	0.004	0.005	mg/L	06/23/16	06/23/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3010A							QCBatchID:	QC1168702	
Arsenic	ND	1	0.13	2	ug/L	06/24/16	06/28/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030B							QCBatchID:	QC1168635	
TPH Gasoline	ND	1	6.6	50	ug/L		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*93*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030B							QCBatchID:	QC1168570	
1,1,1,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
1,1,1-Trichloroethane	ND	1	0.38	5	ug/L	06/23/16	06/24/16	LZ	
1,1,2,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
1,1,2-Trichloroethane	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.29	5	ug/L	06/23/16	06/24/16	LZ	
1,1-Dichloroethane	ND	1	0.32	5	ug/L	06/23/16	06/24/16	LZ	
1,1-Dichloroethene	ND	1	0.3	5	ug/L	06/23/16	06/24/16	LZ	
1,1-Dichloropropene	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
1,2,3-Trichlorobenzene	ND	1	0.28	5	ug/L	06/23/16	06/24/16	LZ	
1,2,3-Trichloropropane	ND	1	0.16	5	ug/L	06/23/16	06/24/16	LZ	
1,2,4-Trichlorobenzene	ND	1	0.27	5	ug/L	06/23/16	06/24/16	LZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dibromo-3-chloropropane	ND	1	0.12	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dibromoethane	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dichlorobenzene	ND	1	0.26	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dichloroethane	ND	1	0.2	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dichloropropane	ND	1	0.36	5	ug/L	06/23/16	06/24/16	LZ	
1,3,5-Trimethylbenzene	ND	1	0.24	5	ug/L	06/23/16	06/24/16	LZ	
1,3-Dichlorobenzene	ND	1	0.34	5	ug/L	06/23/16	06/24/16	LZ	
1,3-Dichloropropane	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
1,4-Dichlorobenzene	ND	1	0.43	5	ug/L	06/23/16	06/24/16	LZ	
2,2-Dichloropropane	ND	1	0.32	5	ug/L	06/23/16	06/24/16	LZ	
2-Butanone (MEK)	ND	1	0.78	100	ug/L	06/23/16	06/24/16	LZ	
2-Chlorotoluene	ND	1	0.33	5	ug/L	06/23/16	06/24/16	LZ	
4-Chlorotoluene	ND	1	0.31	5	ug/L	06/23/16	06/24/16	LZ	
4-Isopropyltoluene	ND	1	0.32	5	ug/L	06/23/16	06/24/16	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.12	5	ug/L	06/23/16	06/24/16	LZ	
Acetone	ND	1	10	100	ug/L	06/23/16	06/24/16	LZ	
Allyl Chloride	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
Benzene	ND	1	0.18	1	ug/L	06/23/16	06/24/16	LZ	
Bromobenzene	ND	1	0.53	5	ug/L	06/23/16	06/24/16	LZ	
Bromochloromethane	ND	1	0.17	5	ug/L	06/23/16	06/24/16	LZ	
Bromodichloromethane	ND	1	0.31	5	ug/L	06/23/16	06/24/16	LZ	
Bromoform	ND	1	0.13	5	ug/L	06/23/16	06/24/16	LZ	
Bromomethane	ND	1	0.68	5	ug/L	06/23/16	06/24/16	LZ	
Carbon Tetrachloride	ND	1	0.27	5	ug/L	06/23/16	06/24/16	LZ	
Chlorobenzene	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
Chlorodibromomethane	ND	1	0.21	5	ug/L	06/23/16	06/24/16	LZ	
Chloroethane	ND	1	0.45	5	ug/L	06/23/16	06/24/16	LZ	
Chloroform	ND	1	0.18	5	ug/L	06/23/16	06/24/16	LZ	
Chloromethane	ND	1	0.27	5	ug/L	06/23/16	06/24/16	LZ	
cis-1,2-Dichloroethene	ND	1	0.27	5	ug/L	06/23/16	06/24/16	LZ	
cis-1,3-dichloropropene	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016 14:06	**Site:**			
Sample #:	**370943-076**	**Client Sample #:**	EQBL-062216	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/23/16	06/24/16	LZ	
Dibromomethane	ND	1	0.23	5	ug/L	06/23/16	06/24/16	LZ	
Dichlorodifluoromethane	ND	1	0.33	5	ug/L	06/23/16	06/24/16	LZ	
Di-isopropyl ether (DIPE)	ND	1	0.17	1	ug/L	06/23/16	06/24/16	LZ	
Ethylbenzene	ND	1	0.21	5	ug/L	06/23/16	06/24/16	LZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	06/23/16	06/24/16	LZ	
Hexachlorobutadiene	ND	1	0.51	5	ug/L	06/23/16	06/24/16	LZ	
Isopropylbenzene	ND	1	0.24	5	ug/L	06/23/16	06/24/16	LZ	
m and p-Xylene	ND	1	0.45	5	ug/L	06/23/16	06/24/16	LZ	
Methylene chloride	**0.20 J**	1	0.16	5	ug/L	06/23/16	06/24/16	LZ	J
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	06/23/16	06/24/16	LZ	
Naphthalene	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
N-butylbenzene	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
N-propylbenzene	ND	1	0.31	5	ug/L	06/23/16	06/24/16	LZ	
o-Xylene	ND	1	0.29	5	ug/L	06/23/16	06/24/16	LZ	
Sec-butylbenzene	ND	1	0.32	5	ug/L	06/23/16	06/24/16	LZ	
Styrene	ND	1	0.22	5	ug/L	06/23/16	06/24/16	LZ	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	06/23/16	06/24/16	LZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
Tert-butylbenzene	ND	1	0.4	5	ug/L	06/23/16	06/24/16	LZ	
Tetrachloroethene	ND	1	0.8	5	ug/L	06/23/16	06/24/16	LZ	
Toluene	ND	1	0.24	5	ug/L	06/23/16	06/24/16	LZ	
trans-1,2-dichloroethene	ND	1	0.33	5	ug/L	06/23/16	06/24/16	LZ	
trans-1,3-dichloropropene	ND	1	0.23	5	ug/L	06/23/16	06/24/16	LZ	
trans-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/23/16	06/24/16	LZ	
Trichloroethene	ND	1	0.39	5	ug/L	06/23/16	06/24/16	LZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
Vinyl Chloride	ND	1	0.18	5	ug/L	06/23/16	06/24/16	LZ	
Xylenes (Total)	ND	1	0.45	5	ug/L	06/23/16	06/24/16	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*107*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromodifluoromethane (SUR)	*85*	*70-145*	
Toluene-d8 (SUR)	*99*	*70-145*	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016	**Site:**			
Sample #:	370943-077	**Client Sample #:**	TB	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8260B *NELAC* Prep Method: EPA 5030B							QCBatchID: QC1168570		
1,1,1,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
1,1,1-Trichloroethane	ND	1	0.38	5	ug/L	06/23/16	06/24/16	LZ	
1,1,2,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
1,1,2-Trichloroethane	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.29	5	ug/L	06/23/16	06/24/16	LZ	
1,1-Dichloroethane	ND	1	0.32	5	ug/L	06/23/16	06/24/16	LZ	
1,1-Dichloroethene	ND	1	0.3	5	ug/L	06/23/16	06/24/16	LZ	
1,1-Dichloropropene	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
1,2,3-Trichlorobenzene	ND	1	0.28	5	ug/L	06/23/16	06/24/16	LZ	
1,2,3-Trichloropropane	ND	1	0.16	5	ug/L	06/23/16	06/24/16	LZ	
1,2,4-Trichlorobenzene	ND	1	0.27	5	ug/L	06/23/16	06/24/16	LZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dibromo-3-chloropropane	ND	1	0.12	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dibromoethane	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dichlorobenzene	ND	1	0.26	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dichloroethane	ND	1	0.2	5	ug/L	06/23/16	06/24/16	LZ	
1,2-Dichloropropane	ND	1	0.36	5	ug/L	06/23/16	06/24/16	LZ	
1,3,5-Trimethylbenzene	ND	1	0.24	5	ug/L	06/23/16	06/24/16	LZ	
1,3-Dichlorobenzene	ND	1	0.34	5	ug/L	06/23/16	06/24/16	LZ	
1,3-Dichloropropane	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
1,4-Dichlorobenzene	ND	1	0.43	5	ug/L	06/23/16	06/24/16	LZ	
2,2-Dichloropropane	ND	1	0.32	5	ug/L	06/23/16	06/24/16	LZ	
2-Butanone (MEK)	ND	1	0.78	100	ug/L	06/23/16	06/24/16	LZ	
2-Chlorotoluene	ND	1	0.33	5	ug/L	06/23/16	06/24/16	LZ	
4-Chlorotoluene	ND	1	0.31	5	ug/L	06/23/16	06/24/16	LZ	
4-Isopropyltoluene	ND	1	0.32	5	ug/L	06/23/16	06/24/16	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.12	5	ug/L	06/23/16	06/24/16	LZ	
Acetone	ND	1	10	100	ug/L	06/23/16	06/24/16	LZ	
Allyl Chloride	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
Benzene	ND	1	0.18	1	ug/L	06/23/16	06/24/16	LZ	
Bromobenzene	ND	1	0.53	5	ug/L	06/23/16	06/24/16	LZ	
Bromochloromethane	ND	1	0.17	5	ug/L	06/23/16	06/24/16	LZ	
Bromodichloromethane	ND	1	0.31	5	ug/L	06/23/16	06/24/16	LZ	
Bromoform	ND	1	0.13	5	ug/L	06/23/16	06/24/16	LZ	
Bromomethane	ND	1	0.68	5	ug/L	06/23/16	06/24/16	LZ	
Carbon Tetrachloride	ND	1	0.27	5	ug/L	06/23/16	06/24/16	LZ	
Chlorobenzene	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
Chlorodibromomethane	ND	1	0.21	5	ug/L	06/23/16	06/24/16	LZ	
Chloroethane	ND	1	0.45	5	ug/L	06/23/16	06/24/16	LZ	
Chloroform	ND	1	0.18	5	ug/L	06/23/16	06/24/16	LZ	
Chloromethane	ND	1	0.27	5	ug/L	06/23/16	06/24/16	LZ	
cis-1,2-Dichloroethene	ND	1	0.27	5	ug/L	06/23/16	06/24/16	LZ	
cis-1,3-dichloropropene	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
cis-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/23/16	06/24/16	LZ	
Dibromomethane	ND	1	0.23	5	ug/L	06/23/16	06/24/16	LZ	
Dichlorodifluoromethane	ND	1	0.33	5	ug/L	06/23/16	06/24/16	LZ	
Di-isopropyl ether (DIPE)	ND	1	0.17	1	ug/L	06/23/16	06/24/16	LZ	
Ethylbenzene	ND	1	0.21	5	ug/L	06/23/16	06/24/16	LZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	06/23/16	06/24/16	LZ	
Hexachlorobutadiene	ND	1	0.51	5	ug/L	06/23/16	06/24/16	LZ	
Isopropylbenzene	ND	1	0.24	5	ug/L	06/23/16	06/24/16	LZ	
m and p-Xylene	ND	1	0.45	5	ug/L	06/23/16	06/24/16	LZ	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/22/2016	**Site:**			
Sample #:	**370943-077**	**Client Sample #:**	TB	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Methylene chloride	ND	1	0.16	5	ug/L	06/23/16	06/24/16	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	06/23/16	06/24/16	LZ	
Naphthalene	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
N-butylbenzene	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
N-propylbenzene	ND	1	0.31	5	ug/L	06/23/16	06/24/16	LZ	
o-Xylene	ND	1	0.29	5	ug/L	06/23/16	06/24/16	LZ	
Sec-butylbenzene	ND	1	0.32	5	ug/L	06/23/16	06/24/16	LZ	
Styrene	ND	1	0.22	5	ug/L	06/23/16	06/24/16	LZ	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	06/23/16	06/24/16	LZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/L	06/23/16	06/24/16	LZ	
Tert-butylbenzene	ND	1	0.4	5	ug/L	06/23/16	06/24/16	LZ	
Tetrachloroethene	ND	1	0.8	5	ug/L	06/23/16	06/24/16	LZ	
Toluene	ND	1	0.24	5	ug/L	06/23/16	06/24/16	LZ	
trans-1,2-dichloroethene	ND	1	0.33	5	ug/L	06/23/16	06/24/16	LZ	
trans-1,3-dichloropropene	ND	1	0.23	5	ug/L	06/23/16	06/24/16	LZ	
trans-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/23/16	06/24/16	LZ	
Trichloroethene	ND	1	0.39	5	ug/L	06/23/16	06/24/16	LZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/L	06/23/16	06/24/16	LZ	
Vinyl Chloride	ND	1	0.18	5	ug/L	06/23/16	06/24/16	LZ	
Xylenes (Total)	ND	1	0.45	5	ug/L	06/23/16	06/24/16	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*105*	*70-145*	
4-Bromofluorobenzene (SUR)	*111*	*70-145*	
Dibromodifluoromethane (SUR)	*89*	*70-145*	
Toluene-d8 (SUR)	*103*	*70-145*	

QCBatchID: QC1168532	Analyst: lytagas	Method: EPA 8015B
Matrix: Solid	Analyzed: 06/23/2016	Instrument: SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168532MB1					
TPH (C10 to C22)	ND	mg/Kg	0.4	3	
TPH (C22 to C36)	ND	mg/Kg	2.1	5	
TPH (C6 to C10)	ND	mg/Kg	1.7	3	
TPH Diesel	ND	mg/Kg	0.4	1	
TPH Motor Oil	ND	mg/Kg	2.1	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168532LCS1											
TPH Diesel	25		29.8		mg/Kg	119			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1168532MS1, QC1168532MSD1												**Source: 370807-041**
TPH Diesel	ND	25	25	20.2	21.7	mg/Kg	81	87	7.2	70-130	30	

QCBatchID: QC1168536	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/23/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168536MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.24	5	
1,1,1-Trichloroethane	ND	ug/Kg	0.15	5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.29	5	
1,1,2-Trichloroethane	ND	ug/Kg	0.22	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg	0.74	5	
1,1-Dichloroethane	ND	ug/Kg	0.23	5	
1,1-Dichloroethene	ND	ug/Kg	0.18	5	
1,1-Dichloropropene	ND	ug/Kg	0.21	5	
1,2,3-Trichlorobenzene	ND	ug/Kg	0.18	5	
1,2,3-Trichloropropane	ND	ug/Kg	0.2	5	
1,2,4-Trichlorobenzene	ND	ug/Kg	0.33	5	
1,2,4-Trimethylbenzene	ND	ug/Kg	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg	0.2	5	
1,2-Dibromoethane	ND	ug/Kg	0.12	5	
1,2-Dichlorobenzene	ND	ug/Kg	0.18	5	
1,2-Dichloroethane	ND	ug/Kg	0.14	5	
1,2-Dichloropropane	ND	ug/Kg	0.34	5	
1,3,5-Trimethylbenzene	ND	ug/Kg	0.23	5	
1,3-Dichlorobenzene	ND	ug/Kg	0.21	5	
1,3-Dichloropropane	ND	ug/Kg	0.19	5	
1,4-Dichlorobenzene	ND	ug/Kg	0.24	5	
2,2-Dichloropropane	ND	ug/Kg	0.19	5	
2-Butanone (MEK)	ND	ug/Kg	0.72	100	
2-Chloroethyl Vinyl Ether	ND	ug/Kg	0.3	5	
2-Chlorotoluene	ND	ug/Kg	0.25	5	
4-Chlorotoluene	ND	ug/Kg	0.22	5	
4-Isopropyltoluene	ND	ug/Kg	0.27	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	0.17	5	
Acetone	ND	ug/Kg	10	100	
Allyl Chloride	ND	ug/Kg	0.14	5	
Benzene	ND	ug/Kg	0.18	5	
Bromobenzene	ND	ug/Kg	0.3	5	
Bromochloromethane	ND	ug/Kg	0.18	5	
Bromodichloromethane	ND	ug/Kg	0.2	5	
Bromoform	ND	ug/Kg	0.19	5	
Bromomethane	ND	ug/Kg	0.22	5	
Carbon Tetrachloride	ND	ug/Kg	0.18	5	
Chlorobenzene	ND	ug/Kg	0.18	5	
Chlorodibromomethane	ND	ug/Kg	0.19	5	
Chloroethane	ND	ug/Kg	0.2	5	
Chloroform	ND	ug/Kg	0.17	5	
Chloromethane	ND	ug/Kg	0.21	5	
cis-1,2-Dichloroethene	ND	ug/Kg	0.2	5	
cis-1,3-dichloropropene	ND	ug/Kg	0.2	5	
cis-1,4-dichloro-2-butene	ND	ug/Kg	0.2	5	
Dibromomethane	ND	ug/Kg	0.23	5	
Dichlorodifluoromethane	ND	ug/Kg	0.23	5	
Di-isopropyl ether (DIPE)	ND	ug/Kg	0.21	5	
Ethylbenzene	ND	ug/Kg	0.25	5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg	0.42	5	
Hexachlorobutadiene	ND	ug/Kg	0.38	5	

QCBatchID: QC1168536	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/23/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168536MB1					
Isopropylbenzene	ND	ug/Kg	0.17	5	
m and p-Xylene	ND	ug/Kg	0.21	5	
Methylene chloride	ND	ug/Kg	0.22	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg	0.25	5	
Naphthalene	ND	ug/Kg	0.28	5	
N-butylbenzene	ND	ug/Kg	0.16	5	
N-propylbenzene	ND	ug/Kg	0.19	5	
o-Xylene	ND	ug/Kg	0.13	5	
Sec-butylbenzene	ND	ug/Kg	0.34	5	
Styrene	ND	ug/Kg	0.23	5	
t-Butyl alcohol (TBA)	ND	ug/Kg	8.8	10	
Tert-amylmethylether (TAME)	ND	ug/Kg	0.19	5	
Tert-butylbenzene	ND	ug/Kg	0.18	5	
Tetrachloroethene	ND	ug/Kg	0.2	5	
Toluene	ND	ug/Kg	0.23	5	
trans-1,2-dichloroethene	ND	ug/Kg	0.23	5	
trans-1,3-dichloropropene	ND	ug/Kg	0.14	5	
trans-1,4-dichloro-2-butene	ND	ug/Kg	0.38	5	
Trichloroethene	ND	ug/Kg	0.39	5	
Trichlorofluoromethane	ND	ug/Kg	0.25	5	
Vinyl Chloride	ND	ug/Kg	0.18	5	
Xylenes (Total)	ND	ug/Kg	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168536LCS1, QC1168536LCSD1											
1,1-Dichloroethene	50	50	55	55	ug/Kg	110	110	0	59-172	22	
Benzene	50	50	51	51	ug/Kg	102	102	0	62-137	24	
Chlorobenzene	50	50	50	51	ug/Kg	100	102	2	60-133	24	
Methyl-t-butyl Ether (MTBE)	50	50	50	49	ug/Kg	100	98	2	62-137	21	
Toluene	50	50	50	51	ug/Kg	100	102	2	59-139	21	
Trichloroethene	50	50	48	50	ug/Kg	96	100	4	66-142	21	

QCBatchID: QC1168551	Analyst: dswafford	Method: EPA 6010B
Matrix: Water	Analyzed: 06/23/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168551MB1					
Lead	ND	mg/L	0.004	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168551LCS1											
Lead	2		1.99		mg/L	100			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168551MS1, QC1168551MSD1												**Source: 370943-076**
Lead	ND	1	1	0.969	1.04	mg/L	97	104	7.1	75-125	20	

QCBatchID: QC1168567	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/23/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168567MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.24	5	
1,1,1-Trichloroethane	ND	ug/Kg	0.15	5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.29	5	
1,1,2-Trichloroethane	ND	ug/Kg	0.22	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg	0.74	5	
1,1-Dichloroethane	ND	ug/Kg	0.23	5	
1,1-Dichloroethene	ND	ug/Kg	0.18	5	
1,1-Dichloropropene	ND	ug/Kg	0.21	5	
1,2,3-Trichlorobenzene	ND	ug/Kg	0.18	5	
1,2,3-Trichloropropane	ND	ug/Kg	0.2	5	
1,2,4-Trichlorobenzene	ND	ug/Kg	0.33	5	
1,2,4-Trimethylbenzene	ND	ug/Kg	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg	0.2	5	
1,2-Dibromoethane	ND	ug/Kg	0.12	5	
1,2-Dichlorobenzene	ND	ug/Kg	0.18	5	
1,2-Dichloroethane	ND	ug/Kg	0.14	5	
1,2-Dichloropropane	ND	ug/Kg	0.34	5	
1,3,5-Trimethylbenzene	ND	ug/Kg	0.23	5	
1,3-Dichlorobenzene	ND	ug/Kg	0.21	5	
1,3-Dichloropropane	ND	ug/Kg	0.19	5	
1,4-Dichlorobenzene	ND	ug/Kg	0.24	5	
2,2-Dichloropropane	ND	ug/Kg	0.19	5	
2-Butanone (MEK)	ND	ug/Kg	0.72	100	
2-Chloroethyl Vinyl Ether	ND	ug/Kg	0.3	5	
2-Chlorotoluene	ND	ug/Kg	0.25	5	
4-Chlorotoluene	ND	ug/Kg	0.22	5	
4-Isopropyltoluene	ND	ug/Kg	0.27	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	0.17	5	
Acetone	ND	ug/Kg	10	100	
Allyl Chloride	ND	ug/Kg	0.14	5	
Benzene	ND	ug/Kg	0.18	5	
Bromobenzene	ND	ug/Kg	0.3	5	
Bromochloromethane	ND	ug/Kg	0.18	5	
Bromodichloromethane	ND	ug/Kg	0.2	5	
Bromoform	ND	ug/Kg	0.19	5	
Bromomethane	ND	ug/Kg	0.22	5	
Carbon Tetrachloride	ND	ug/Kg	0.18	5	
Chlorobenzene	ND	ug/Kg	0.18	5	
Chlorodibromomethane	ND	ug/Kg	0.19	5	
Chloroethane	ND	ug/Kg	0.2	5	
Chloroform	ND	ug/Kg	0.17	5	
Chloromethane	ND	ug/Kg	0.21	5	
cis-1,2-Dichloroethene	ND	ug/Kg	0.2	5	
cis-1,3-dichloropropene	ND	ug/Kg	0.2	5	
cis-1,4-dichloro-2-butene	ND	ug/Kg	0.2	5	
Dibromomethane	ND	ug/Kg	0.23	5	
Dichlorodifluoromethane	ND	ug/Kg	0.23	5	
Di-isopropyl ether (DIPE)	ND	ug/Kg	0.21	5	
Ethylbenzene	ND	ug/Kg	0.25	5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg	0.42	5	
Hexachlorobutadiene	ND	ug/Kg	0.38	5	

QCBatchID: QC1168567	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/23/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168567MB1					
Isopropylbenzene	ND	ug/Kg	0.17	5	
m and p-Xylene	ND	ug/Kg	0.21	5	
Methylene chloride	ND	ug/Kg	0.22	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg	0.25	5	
Naphthalene	ND	ug/Kg	0.28	5	
N-butylbenzene	ND	ug/Kg	0.16	5	
N-propylbenzene	ND	ug/Kg	0.19	5	
o-Xylene	ND	ug/Kg	0.13	5	
Sec-butylbenzene	ND	ug/Kg	0.34	5	
Styrene	ND	ug/Kg	0.23	5	
t-Butyl alcohol (TBA)	ND	ug/Kg	8.8	10	
Tert-amylmethylether (TAME)	ND	ug/Kg	0.19	5	
Tert-butylbenzene	ND	ug/Kg	0.18	5	
Tetrachloroethene	ND	ug/Kg	0.2	5	
Toluene	ND	ug/Kg	0.23	5	
trans-1,2-dichloroethene	ND	ug/Kg	0.23	5	
trans-1,3-dichloropropene	ND	ug/Kg	0.14	5	
trans-1,4-dichloro-2-butene	ND	ug/Kg	0.38	5	
Trichloroethene	ND	ug/Kg	0.39	5	
Trichlorofluoromethane	ND	ug/Kg	0.25	5	
Vinyl Chloride	ND	ug/Kg	0.18	5	
Xylenes (Total)	ND	ug/Kg	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168567LCS1, QC1168567LCSD1											
1,1-Dichloroethene	50	50	54	52	ug/Kg	108	104	4	59-172	22	
Benzene	50	50	53	51	ug/Kg	106	102	4	62-137	24	
Chlorobenzene	50	50	48	45	ug/Kg	96	90	6	60-133	24	
Methyl-t-butyl Ether (MTBE)	50	50	51	53	ug/Kg	102	106	4	62-137	21	
Toluene	50	50	50	48	ug/Kg	100	96	4	59-139	21	
Trichloroethene	50	50	48	49	ug/Kg	96	98	2	66-142	21	

QCBatchID: QC1168570	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 06/23/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168570MB1					
1,1,1,2-Tetrachloroethane	ND	ug/L	0.25	5	
1,1,1-Trichloroethane	ND	ug/L	0.38	5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.25	5	
1,1,2-Trichloroethane	ND	ug/L	0.25	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.29	5	
1,1-Dichloroethane	ND	ug/L	0.32	5	
1,1-Dichloroethene	ND	ug/L	0.3	5	
1,1-Dichloropropene	ND	ug/L	0.25	5	
1,2,3-Trichlorobenzene	ND	ug/L	0.28	5	
1,2,3-Trichloropropane	ND	ug/L	0.16	5	
1,2,4-Trichlorobenzene	ND	ug/L	0.27	5	
1,2,4-Trimethylbenzene	ND	ug/L	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.12	5	
1,2-Dibromoethane	ND	ug/L	0.19	5	
1,2-Dichlorobenzene	ND	ug/L	0.26	5	
1,2-Dichloroethane	ND	ug/L	0.2	5	
1,2-Dichloropropane	ND	ug/L	0.36	5	
1,3,5-Trimethylbenzene	ND	ug/L	0.24	5	
1,3-Dichlorobenzene	ND	ug/L	0.34	5	
1,3-Dichloropropane	ND	ug/L	0.19	5	
1,4-Dichlorobenzene	ND	ug/L	0.43	5	
2,2-Dichloropropane	ND	ug/L	0.32	5	
2-Butanone (MEK)	ND	ug/L	0.78	100	
2-Chlorotoluene	ND	ug/L	0.33	5	
4-Chlorotoluene	ND	ug/L	0.31	5	
4-Isopropyltoluene	ND	ug/L	0.32	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	0.12	5	
Acetone	ND	ug/L	10	100	
Allyl Chloride	ND	ug/L	0.19	5	
Benzene	ND	ug/L	0.18	1	
Bromobenzene	ND	ug/L	0.53	5	
Bromochloromethane	ND	ug/L	0.17	5	
Bromodichloromethane	ND	ug/L	0.31	5	
Bromoform	ND	ug/L	0.13	5	
Bromomethane	ND	ug/L	0.68	5	
Carbon Tetrachloride	ND	ug/L	0.27	5	
Chlorobenzene	ND	ug/L	0.19	5	
Chlorodibromomethane	ND	ug/L	0.21	5	
Chloroethane	ND	ug/L	0.45	5	
Chloroform	ND	ug/L	0.18	5	
Chloromethane	ND	ug/L	0.27	5	
cis-1,2-Dichloroethene	ND	ug/L	0.27	5	
cis-1,3-dichloropropene	ND	ug/L	0.25	5	
cis-1,4-dichloro-2-butene	ND	ug/L	0.17	5	
Dibromomethane	ND	ug/L	0.23	5	
Dichlorodifluoromethane	ND	ug/L	0.33	5	
Di-isopropyl ether (DIPE)	ND	ug/L	0.17	1	
Ethylbenzene	ND	ug/L	0.21	5	
Ethyl-tertbutylether (ETBE)	ND	ug/L	0.23	1	
Hexachlorobutadiene	ND	ug/L	0.51	5	
Isopropylbenzene	ND	ug/L	0.24	5	

QCBatchID: QC1168570	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 06/23/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168570MB1					
m and p-Xylene	ND	ug/L	0.45	5	
Methylene chloride	ND	ug/L	0.16	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L	0.19	1	
Naphthalene	ND	ug/L	0.25	5	
N-butylbenzene	ND	ug/L	0.25	5	
N-propylbenzene	ND	ug/L	0.31	5	
o-Xylene	ND	ug/L	0.29	5	
Sec-butylbenzene	ND	ug/L	0.32	5	
Styrene	ND	ug/L	0.22	5	
t-Butyl alcohol (TBA)	ND	ug/L	5.2	10	
Tert-amylmethylether (TAME)	ND	ug/L	0.19	5	
Tert-butylbenzene	ND	ug/L	0.4	5	
Tetrachloroethene	ND	ug/L	0.8	5	
Toluene	ND	ug/L	0.24	5	
trans-1,2-dichloroethene	ND	ug/L	0.33	5	
trans-1,3-dichloropropene	ND	ug/L	0.23	5	
trans-1,4-dichloro-2-butene	ND	ug/L	0.17	5	
Trichloroethene	ND	ug/L	0.39	5	
Trichlorofluoromethane	ND	ug/L	0.25	5	
Vinyl Chloride	ND	ug/L	0.18	5	
Xylenes (Total)	ND	ug/L	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168570LCS1											
1,1-Dichloroethene	50		48		ug/L	96			59-172		
Benzene	50		48		ug/L	96			62-137		
Chlorobenzene	50		49		ug/L	98			60-133		
Methyl-t-butyl Ether (MTBE)	50		40		ug/L	80			62-137		
Toluene	50		53		ug/L	106			59-139		
Trichloroethene	50		54		ug/L	108			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168570MS1, QC1168570MSD1												**Source: 370972-008**
1,1-Dichloroethene	ND	50	50	51	49	ug/L	102	98	4.0	59-172	22	
Benzene	0.2	50	50	49	47	ug/L	98	94	4.2	62-137	24	
Chlorobenzene	ND	50	50	51	48	ug/L	102	96	6.1	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	48	47	ug/L	96	94	2.1	62-137	21	
Toluene	ND	50	50	56	52	ug/L	112	104	7.4	59-139	21	
Trichloroethene	ND	50	50	55	52	ug/L	110	104	5.6	66-142	21	

QCBatchID: QC1168585	Analyst: JParedes	Method: EPA 7471A
Matrix: Solid	Analyzed: 06/24/2016	Instrument: AAICP-HG1

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168585MB1					
Mercury	ND	mg/Kg	0.02	0.14	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168585LCS1											
Mercury	0.83		0.88		mg/Kg	106			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168585MS1, QC1168585MSD1												**Source: 370943-001**
Mercury	0.06	0.83	0.83	0.99	1.01	mg/Kg	112	114	2.0	75-125	20	

QCBatchID: QC1168586	Analyst: lytagas	Method: EPA 8015B
Matrix: Solid	Analyzed: 06/24/2016	Instrument: SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168586MB1					
TPH (C10 to C22)	ND	mg/Kg	0.4	3	
TPH (C6 to C10)	ND	mg/Kg	1.7	3	
TPH Diesel	ND	mg/Kg	0.4	1	
TPH Motor Oil	ND	mg/Kg	2.1	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168586LCS1											
TPH Diesel	25				mg/Kg				70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168586MS1, QC1168586MSD1												**Source: 370943-051**
TPH Diesel	ND	25	25			mg/Kg				70-130	30	

QCBatchID: QC1168597	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/24/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168597MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	**1.05**	mg/Kg	0.72	1	B
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168597LCS1											
Antimony	200		193		mg/Kg	97			80-120		
Arsenic	200		189		mg/Kg	95			80-120		
Barium	200		196		mg/Kg	98			80-120		
Beryllium	200		186		mg/Kg	93			80-120		
Cadmium	200		195		mg/Kg	98			80-120		
Chromium	200		196		mg/Kg	98			80-120		
Cobalt	200		192		mg/Kg	96			80-120		
Copper	200		192		mg/Kg	96			80-120		
Lead	200		188		mg/Kg	94			80-120		
Molybdenum	200		197		mg/Kg	99			80-120		
Nickel	200		193		mg/Kg	97			80-120		
Selenium	200		187		mg/Kg	94			80-120		
Silver	100		83.6		mg/Kg	84			80-120		
Thallium	200		191		mg/Kg	96			80-120		
Vanadium	200		192		mg/Kg	96			80-120		
Zinc	200		190		mg/Kg	95			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1168597MS1, QC1168597MSD1												**Source: 370943-001**
Antimony	ND	100	100	39.0	39.3	mg/Kg	41	41	0.8	75-125	20	M
Arsenic	3.74	100	100	108	112	mg/Kg	104	108	3.6	75-125	20	
Barium	84.8	100	100	194	196	mg/Kg	109	111	1.0	75-125	20	
Beryllium	ND	100	100	98.9	97.3	mg/Kg	100	99	1.6	75-125	20	
Cadmium	0.42	100	100	99.6	102	mg/Kg	99	102	2.4	75-125	20	
Chromium	11.5	100	100	113	115	mg/Kg	102	104	1.8	75-125	20	
Cobalt	5.52	100	100	104	105	mg/Kg	98	99	1.0	75-125	20	
Copper	11.9	100	100	118	119	mg/Kg	106	107	0.8	75-125	20	
Lead	19.0	100	100	116	115	mg/Kg	97	96	0.9	75-125	20	

QCBatchID: QC1168597	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/24/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168597MS1, QC1168597MSD1												**Source: 370943-001**
Molybdenum	1.54	100	100	95.0	97.4	mg/Kg	93	96	2.5	75-125	20	
Nickel	12.2	100	100	109	114	mg/Kg	97	102	4.5	75-125	20	
Selenium	ND	100	100	80.9	83.5	mg/Kg	100	102	3.2	75-125	20	
Silver	0.52	50	50	45.5	46.1	mg/Kg	90	91	1.3	75-125	20	
Thallium	ND	100	100	98.6	98.4	mg/Kg	101	100	0.2	75-125	20	
Vanadium	23.7	100	100	129	133	mg/Kg	105	109	3.1	75-125	20	
Zinc	50.0	100	100	142	148	mg/Kg	92	98	4.1	75-125	20	

QCBatchID: QC1168598	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/24/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168598MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	**2.12**	mg/Kg	0.72	1	B
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168598LCS1											
Antimony	200		212		mg/Kg	106			80-120		
Arsenic	200		208		mg/Kg	104			80-120		
Barium	200		201		mg/Kg	101			80-120		
Beryllium	200		194		mg/Kg	97			80-120		
Cadmium	200		210		mg/Kg	105			80-120		
Chromium	200		210		mg/Kg	105			80-120		
Cobalt	200		208		mg/Kg	104			80-120		
Copper	200		200		mg/Kg	100			80-120		
Lead	200		206		mg/Kg	103			80-120		
Molybdenum	200		208		mg/Kg	104			80-120		
Nickel	200		208		mg/Kg	104			80-120		
Selenium	200		198		mg/Kg	99			80-120		
Silver	100		86.6		mg/Kg	87			80-120		
Thallium	200		209		mg/Kg	105			80-120		
Vanadium	200		200		mg/Kg	100			80-120		
Zinc	200		207		mg/Kg	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168598MS1, QC1168598MSD1												**Source: 370943-057**
Antimony	ND	100	100	47.8	44.7	mg/Kg	50	47	6.7	75-125	20	M
Arsenic	3.56	100	100	110	102	mg/Kg	106	98	7.5	75-125	20	
Barium	106	100	100	185	188	mg/Kg	79	82	1.6	75-125	20	
Beryllium	ND	100	100	96.4	97.5	mg/Kg	98	99	1.1	75-125	20	
Cadmium	0.43	100	100	102	99.7	mg/Kg	102	99	2.3	75-125	20	
Chromium	12.7	100	100	113	112	mg/Kg	100	99	0.9	75-125	20	
Cobalt	5.37	100	100	103	96.1	mg/Kg	98	91	6.9	75-125	20	
Copper	15.8	100	100	121	117	mg/Kg	105	101	3.4	75-125	20	
Lead	25.2	100	100	120	111	mg/Kg	95	86	7.8	75-125	20	

QCBatchID: QC1168598	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/24/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168598MS1, QC1168598MSD1												**Source: 370943-057**
Molybdenum	1.32	100	100	96.2	89.9	mg/Kg	95	89	6.8	75-125	20	
Nickel	13.8	100	100	114	113	mg/Kg	100	99	0.9	75-125	20	
Selenium	ND	100	100	82.1	75.2	mg/Kg	99	92	8.8	75-125	20	
Silver	0.28	50	50	44.8	44.3	mg/Kg	89	88	1.1	75-125	20	
Thallium	ND	100	100	99.8	92.0	mg/Kg	101	93	8.1	75-125	20	
Vanadium	25.5	100	100	130	129	mg/Kg	105	104	0.8	75-125	20	
Zinc	44.8	100	100	146	148	mg/Kg	101	103	1.4	75-125	20	

QCBatchID: QC1168626	Analyst: ttran	Method: EPA 8015B
Matrix: Solid	Analyzed: 06/24/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168626MB1					
TPH Gasoline	ND	mg/Kg	0.159	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168626LCS1, QC1168626LCSD1											
TPH Gasoline	5	5	4.30	4.26	mg/Kg	86	85	1	70-130	20	

QCBatchID: QC1168635	Analyst: ttran	Method: EPA 8015B
Matrix: Water	Analyzed: 06/24/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168635MB1					
TPH Gasoline	ND	ug/L	6.6	50	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168635LCS1, QC1168635LCSD1											
TPH Gasoline	500	500	431	441	ug/L	86	88	2	70-130	30	

QCBatchID: QC1168647	Analyst: ttran	Method: EPA 8015B
Matrix: Solid	Analyzed: 06/25/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168647MB1					
TPH Gasoline	ND	mg/Kg	0.159	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168647LCS1, QC1168647LCSD1											
TPH Gasoline	5	5	4.38	4.33	mg/Kg	88	87	1	70-130	20	

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168647MS1, QC1168647MSD1												**Source: 371033-001**
TPH Gasoline	ND	5	5	3.26	3.13	mg/Kg	65	63	4.1	70-130	20	M

QCBatchID: QC1168699	Analyst: kedy	Method: EPA 6020
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168699MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168699LCS1											
Arsenic	50		52.1		mg/Kg	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168699MS1, QC1168699MSD1												**Source: 370943-001**
Arsenic	3.44	50	50	51.1	51.6	mg/Kg	95	96	1.0	75-125	20	

QCBatchID: QC1168700	Analyst: kedy	Method: EPA 6020
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168700MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168700LCS1											
Arsenic	50		50.8		mg/Kg	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168700MS1, QC1168700MSD1												**Source: 370943-057**
Arsenic	3.09	50	50	52.5	49.8	mg/Kg	99	93	5.3	75-125	20	

QCBatchID: QC1168702	Analyst: kedy	Method: EPA 6020
Matrix: Water	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168702MB1					
Arsenic	ND	ug/L	0.13	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168702LCS1											
Arsenic	50		45.8		ug/L	92			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168702MS1, QC1168702MSD1												**Source: 370943-076**
Arsenic	ND	50	50	46.3	48.6	ug/L	93	97	4.8	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 370943 Page: 1 of 89 EF	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)	Title 22 Metals 6010B			Test Instructions / Comments
1	SS100 - 0.5	6/22/16	0750	soil	1x Sleeve 5x VOA	MeOH/ NaHSO4	X	~~X~~		X	X	X		X			
2	SS100 - 1.5	6/22/16	0752	soil	1x sleeve ~~5x VOA~~	None											Archive and Hold
3	SS100 - 2.5	6/22/16	0754	soil	1x sleeve	None											Archive and Hold.
4	SS97-0.5	6/22/16	0804	soil	1x sleeve 5x VOA	MeOH/ NaHSO4	X			X	X	X		X			
5	SS97 - 1.5	6/22/16	0806	soil	1x sleeve	None											Archive and Hold
6	SS97 - 2.5	6/22/16	0808	soil	1 x sleeve	None											Archive and Hold
7	SS24 - 0.5	6/22/16	0820	soil	1x sleeve	None	X	X									
8	SS24-1.5	6/22/16	0822	soil	1x sleeve	None											Archive and Hold
9	SS24 - 2.5	6/22/16	0824	soil	1x sleeve.	None.											Archive and Hold
10	SS32 - 0.5	6/22/16	0830	soil	1x sleeve 5x VOA	MeOH / NaHSO4	X	X		X	X	X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta Environmental	6/22/16 1524
1 Received By:	[signature]	L. Mandelli		6/22/16 1524
2 Relinquished By:	[signature]	L. Mandelli		6/22/16 1656
2 Received By:	[signature]	ZAID P.		6/22/16 1700
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 370943	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of ~~8~~ 9 EF	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					

ENTHALPY analytical, inc.

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Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS32-1.5	6/22/16	0832 ~~Soil~~	Soil	1x Sleeve	None											Archive and Hold
2	SS32-2.5	6/22/16	0834 ~~Soil~~	Soil	1x Sleeve.	None											Archive and Hold
3	SS4-0.5	6/22/16	0841	Soil	1x Sleeve 5x VOA	MeOH/ NaHSO4	X	X		X	X	X	X				
4	SS4-1.5	6/22/16	0843	Soil	1x Sleeve	None											Archive and Hold
5	SS4-2.5	6/22/16	0845	Soil	1x Sleeve	None											Archive and Hold
6	SS3-0.5	↓	0853	Soil	1x Sleeve	None	X	X									
7	SS3-0.5 DUP	↓	0853	Soil	1x Sleeve	None	X	X									
8	SS3-1.5	↓	0854	Soil	1x Sleeve	None											Archive and Hold
9	SS3-2.5	↓	0855	Soil	1x Sleeve	None.											Archive and Hold
10	SS37-0.5	↓	0910	Soil	1x Sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta Environmental	6/22/16 1524
1 Received By:	[signature]	L. Marrolitti		6/22/16 1524
2 Relinquished By:	[signature]	L. Marrolitti		6/22/16 1656
2 Received By:	[signature]	ZAID P.		6/22/16 1700
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 370943 Page: 3 of 9	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Email:	eric.fraske@altaenviron.com	P.O. #:	
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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS37-0.5DUP	6/22/16	0910	Soil	1xsleeve 5xVOA	MeOH NaHSO4	X	X		X	X	X	X				
2	SS37-1.5		0912		1xsleeve	None											Archive and Hold
3	SS37-2.5		0914		1xsleeve.	None											Archive and Hold
4	SS39-0.5		0923		1xsleeve 5xVOA	MeOH NaHSO4	X	X		X	X	X	X				
5	SS39-1.5		0924		1xsleeve	None											Archive and Hold
6	SS39-2.5		0925		1xsleeve.	None											Archive and Hold
7	SS40-0.5		0944		1xsleeve 5xVOA	MeOH NaHSO4	X	X		X	X	X	X				
8	SS40-1.5		0946		1xsleeve	None											Archive and Hold
9	SS40-2.5		0949		1xsleeve	None											Archive and Hold
10	SS42-0.5		0958		1xsleeve 5xVOA	MeOH NaHSO4	X	X		X	X	X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Eric Fraske	Alta Environmental	6/22/16 1524
1 Received By:		Louis Marrolett		6/22/16 1524
2 Relinquished By:		L. Marrolett		6/22/16 1656
2 Received By:		ZAID P.		6/22/16 1700
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 370943 Page: 4 of 8	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS42-1.5	6/22/16	0959	soil	1x Sleeve.	None											Archive and Hold
2	SS42-2.5	↓	1000	↓	1x sleeve	None											Archive and Hold
3	SS41-0.5		1013		1x sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				
4	SS41-1.5		1014		1x sleeve	None											Archive and Hold
5	SS41-2.5		1015		1x sleeve	None											Archive and Hold
6	SS43-0.5		1024		1x sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				
7	SS43-0.5DUP		1024		1x sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				See Comp 11 Dup Note
8	SS43-1.5		1026		1x sleeve	None											Archive and Hold
9	SS43-2.5		1028		1x sleeve	None											Archive and Hold
10	SS44-0.5	↓	1042	↓	1x sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	6/22/16 1524
1 Received By:	[signature]	Louis Mannelli		6/22/16 1524
2 Relinquished By:	[signature]	L. Mannelli		6/22/16 1656
2 Received By:		TAID P		6/22/16 1700
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 370943	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 5 of ~~8~~ 9 pt	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3					
c/o Montrose Environmental Group	FL = Food Liquid FS = Food Solid L = Liquid	4 = H_2SO_4 5 = NaOH 6 = Other					
1 Park Plaza, Suite 1000, Irvine, CA 92614	PP = Pure Product S = Solid SeaW = Sea Water						
	SW = Swab W = Water WP = Wipe O = Other						

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

Analysis Request

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS44-0.5DUP	6/22/16	1042	soil	1 x sleeve	None											See Comp ~~11~~ Dup Note
2	S44-1.5	↓	1044	↓	1 x sleeve	None											Archive and Hold
3	S44-2.5		1045		1 x sleeve	None											Archive and Hold
4	SS45-0.5		1100		1 x sleeve 5 x VOA	MeOH NaHSO4	X	X		X	X	X	X				
5	SS45-0.5DUP		1100		1 x sleeve	None											See comp 11 Dup Note
6	SS45-1.5		1101		1 x sleeve	None											Archive and Hold
7	SS45-2.5		1102		1 x sleeve	None											Archive and Hold
8	SS47-0.5		1115		1 x sleeve 5 x VOA	MeOH NaHSO4	X	X		X	X	X	X				
9	SS47-1.5		1116		1 x sleeve	None											Archive and Hold
10	SS47-2.5	↓	1117	↓	1 x sleeve.	None											Archive and Hold.

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta Environmental	6/22/16 1524
1 Received By:	[signature]	C. Marcolotti		6/22/16 1524
2 Relinquished By:	[signature]	L. Marcolotti		6/22/16 1656
2 Received By:	[signature]	ZATD		6/22/16 1700
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 370943 Page: 10 of 89	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS48-0.5	6/22/16	1125	Soil	1x Sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				
2	SS48-1.5	↓	1126	Soil	1x Sleeve	None											Archive and Hold
3	SS48-2.5		1127	Soil	1x Sleeve	None											Archive and Hold
4	SS49-0.5		1143	Soil	1x Sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				
5	SS49-1.5		1144	Soil	1x Sleeve	None											Archive and Hold
6	SS49-2.5		1145	Soil	1x Sleeve	None											Archive and Hold
7	SS50-0.5		1246	Soil	1x Sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				
8	SS50-1.5		1247	Soil	1x Sleeve	None											Archive and Hold
9	SS50-2.5		1248	Soil	1x Sleeve	None.											Archive and Hold
10	SS46-0.5	↓	1301	Soil	1x Sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	6/22/16 1524
1 Received By:	[signature]	L. Marrokki		6/22/16 1524
2 Relinquished By:	[signature]	L. Marrokki		6/22/16 1656
2 Received By:	[signature]	ZAID P.		6/22/16 1700
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 370943 Page: 7 of 8	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS40-0.5DUP	6/22/16	1301	Soil	1x sleeve 5x VOA	MeOH NaHSO4											See Comp 11 Dup Note
2	SS40-1.5	↓	1302	↓	1x sleeve												Archive and Hold
3	SS40-2.5		1303		1x sleeve												Archive and Hold
4	SS35-0.5		1310		1x sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				
5	SS35-1.5		1311		1x sleeve												Archive and Hold
6	SS35-2.5		1312		1x sleeve.												Archive and Hold
7	SS38-0.5		1319		1x sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				
8	SS38-1.5		1320		1x sleeve												Archive and Hold
9	SS38-2.5		1321		1x sleeve.												Archive and Hold
10	SS36-0.5	↓	1338	↓	1x sleeve 5x VOA	MeOH NaHSO4	X	X		X	X	X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta Environmental	6/22/16 1524
1 Received By:	[signature]	L. Marrolett		6/22/16 1524
2 Relinquished By:	[signature]	L. Marrolett		6/22/16 1656
2 Received By:	[signature]	ZAID P.		6/22/16 1706
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
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	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS36-1.5	6/22/16	1337	Soil	1xSleeve	None											Archive and Hold
2	SS36-2.5	↓	1338	↓	1x sleeve	↓											Archive and Hold
3	SS91-0.5	↓	1350	↓	1xsleeve	↓	X	X									
4	SS91-1.5	↓	1351	↓	1x sleeve	↓											Archive and Hold
5	SS91-2.5	↓	1352	↓	1x sleeve	↓											Archive and Hold
6	EQBL-062216	↓	1406	Water	4x Amber(1L) 2x poly.	None	X	X		X	X	X	X				
7	TB	↓	—	Water	2xVOA	HCl				X							
8	COMP 9	↓	—	Soil					X								Composite SS35-0.5, SS36-0.5, SS37-0.5, SS38-0.5
9	COMP 10	↓	—	Soil					X								Composite SS39-0.5, SS40-0.5, SS41-0.5, SS42-0.5
10	COMP 11	↓	—	Soil					X								Composite SS43-0.5, SS44-0.5, SS45-0.5, SS46-0.5

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	6/22/16 1524
1 Received By:	[signature]	L. Marrolett		6/22/16 1524
2 Relinquished By:	[signature]	L. Marrolett		6/22/16 1656
2 Received By:	[signature]	ZOTO P.		6/22/16 1700
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 370943 Page: 9 of 9	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	Comp 12	6/22/16	—	Soil	—	—			X								composite 5547-0.5, 5548-0.5, 5549-0.5, 5550-0.5
2	Comp 11 DUP	6/22/16	—	Soil	—	—			X								composite 5543-0.5DUP, 5544-0.5DUP 5545-0.5DUP, 5546-0.5DUP
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASICE	Alta Environmental	6/22/16 1524
1 Received By:	[signature]	L. Mandolfi		6/22/16 1524
2 Relinquished By:	[signature]	L. Mandolfi		6/22/16 1656
2 Received By:	[signature]	ZAID R.		6/22/16 1700
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ALTA ENVIRONMENTAL

Project: JEFFERSON HIGH SCHOOL

Date Received: 6/22/16

Sampler's Signature Present: Yes (No)

Sample temperature: _____

Sample(s) received in cooler: (Yes) No (Skip Section 2)

Shipping Information: _____

Section 2

Was the cooler packed with: ✓ Ice ___ Ice Packs ✓ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other _____

Cooler 1 Temperature: 3.7°C Cooler 2 Temperature: 5.6°C Cooler 3 Temperature: 1.4°C

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤ 10 Deg. C or arrival on ice)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?	✓		
If Yes – were they intact?	✓		
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?		✓	
Were the containers labeled with correct preservatives?	✓		
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay Dept. immediately.*			✓

Section 4

Explanations/Comments

1 AMBER GLASS WAS RECEIVED IN REPLACEMENT OF VIALS FOR EQBL-062216.

Section 5

Was the Project Manager notified via email of discrepancies: (Y) / N N/A

Project Manager's response: R.C.

Completed By: _____ Date: 6/22/16

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	371006
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	07/19/2016
		Date Received:	06/23/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

See attached for TPH-D/MO, Pesticides, and PCBs. Please note: Metals for sample "SS9-0.5" are not included herein. Also, only Metals, Gas, and VOCs are reported for the water samples.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
371006-001	SS17-0.5	371006-025	SS13-2.5	371006-049	SS9-1.5
371006-002	SS17-1.5	371006-026	SS16-0.5	371006-050	SS9-2.5
371006-003	SS17-2.5	371006-027	SS16-1.5	371006-051	SS6-0.5
371006-004	SS20-0.5	371006-028	SS16-2.5	371006-052	SS6-1.5
371006-005	SS20-1.5	371006-029	SS12-0.5	371006-053	SS6-2.5
371006-006	SS20-2.5	371006-030	SS12-0.5 DUP	371006-054	SS7-0.5
371006-007	SS19-0.5	371006-031	SS12-1.5	371006-055	SS7-1.5
371006-008	SS19-0.5 DUP	371006-032	SS12-2.5	371006-056	SS7-2.5
371006-009	SS19-1.5	371006-033	SS11-0.5	371006-057	SS99-0.5
371006-010	SS19-2.5	371006-034	SS11-1.5	371006-058	SS99-1.5
371006-011	SS21-0.5	371006-035	SS11-2.5	371006-059	SS99-2.5
371006-012	SS21-1.5	371006-036	SS14-0.5	371006-060	SS89-0.5
371006-013	SS21-2.5	371006-037	SS14-1.5	371006-061	SS89-1.5
371006-014	SS18-0.5	371006-038	SS14-2.5	371006-062	SS89-2.5
371006-015	SS18-1.5	371006-039	SS15-0.5	371006-063	SS92-0.5
371006-016	SS18-2.5	371006-040	SS15-1.5	371006-064	SS92-1.5
371006-017	SS22-0.5	371006-041	SS15-2.5	371006-065	SS92-2.5
371006-018	SS22-1.5	371006-042	SS10-0.5	371006-066	SS90-0.5
371006-019	SS22-2.5	371006-043	SS10-1.5	371006-067	SS90-1.5
371006-020	SS23-0.5	371006-044	SS10-2.5	371006-068	SS90-2.5
371006-021	SS23-1.5	371006-045	SS8-0.5	371006-069	SS98-0.5
371006-022	SS23-2.5	371006-046	SS8-1.5	371006-070	SS98-0.5 DUP
371006-023	SS13-0.5	371006-047	SS8-2.5	371006-071	SS98-1.5
371006-024	SS13-1.5	371006-048	SS9-0.5	371006-072	SS98-2.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 06:58 **Site:**
Sample #: 371006-001 **Client Sample #:** SS17-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**29.2**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**4.53**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 06:59 **Site:**
Sample #: 371006-002 **Client Sample #:** SS17-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:00 **Site:**
Sample #: 371006-003 **Client Sample #:** SS17-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 06:58 **Site:**
Sample #: 371006-004 **Client Sample #:** SS20-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**39.6**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**6.40**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:00 **Site:**
Sample #: 371006-005 **Client Sample #:** SS20-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:02 **Site:**
Sample #: 371006-006 **Client Sample #:** SS20-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:05 **Site:**
Sample #: 371006-007 **Client Sample #:** SS19-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**37.0**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**2.78 J**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	J
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:05 **Site:**
Sample #: 371006-008 **Client Sample #:** SS19-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**22.9**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**1.334 J**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	J
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:07 **Site:**
Sample #: 371006-009 **Client Sample #:** SS19-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:09 **Site:**
Sample #: 371006-010 **Client Sample #:** SS19-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:06 **Site:**
Sample #: 371006-011 **Client Sample #:** SS21-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**146**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**5.60**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:07 **Site:**
Sample #: 371006-012 **Client Sample #:** SS21-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 07:08	Site:	
Sample #: 371006-013	Client Sample #: SS21-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 07:15	Site:	
Sample #: 371006-014	Client Sample #: SS18-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**6.08**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**1.257 J**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	J

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 07:16	Site:	
Sample #: 371006-015	Client Sample #: SS18-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 07:17	Site:	
Sample #: 371006-016	Client Sample #: SS18-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 07:12	Site:	
Sample #: 371006-017	Client Sample #: SS22-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**160**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**5.13**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 07:14	Site:	
Sample #: 371006-018	Client Sample #: SS22-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 07:16	Site:	
Sample #: 371006-019	Client Sample #: SS22-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:22 **Site:**
Sample #: 371006-020 **Client Sample #:** SS23-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**10.2**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**1.672 J**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	J

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:23 **Site:**
Sample #: 371006-021 **Client Sample #:** SS23-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:26 **Site:**
Sample #: 371006-022 **Client Sample #:** SS23-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:29 **Site:**
Sample #: 371006-023 **Client Sample #:** SS13-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168674		
Lead	**14.9**	1	0.32	0.5	mg/Kg	06/25/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**2.02 J**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	J

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:30 **Site:**
Sample #: 371006-024 **Client Sample #:** SS13-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:31 **Site:**
Sample #: 371006-025 **Client Sample #:** SS13-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:35 **Site:**
Sample #: 371006-026 **Client Sample #:** SS16-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**20.1**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**3.15**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 07:37	Site:			
Sample #:	371006-027	Client Sample #:	SS16-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 07:38	Site:			
Sample #:	371006-028	Client Sample #:	SS16-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 07:40	Site:			
Sample #:	371006-029	Client Sample #:	SS12-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**32.9**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**4.37**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 07:40	Site:			
Sample #:	371006-030	Client Sample #:	SS12-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**15.0**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**3.42**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 07:41	Site:			
Sample #:	371006-031	Client Sample #:	SS12-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 07:42	Site:			
Sample #:	371006-032	Client Sample #:	SS12-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:48 **Site:**
Sample #: 371006-033 **Client Sample #:** SS11-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**7.84**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**1.513 J**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	J

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:49 **Site:**
Sample #: 371006-034 **Client Sample #:** SS11-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:50 **Site:**
Sample #: 371006-035 **Client Sample #:** SS11-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:52 **Site:**
Sample #: 371006-036 **Client Sample #:** SS14-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**29.8**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**10.3**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:53 **Site:**
Sample #: 371006-037 **Client Sample #:** SS14-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:55 **Site:**
Sample #: 371006-038 **Client Sample #:** SS14-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 07:58 **Site:**
Sample #: 371006-039 **Client Sample #:** SS15-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**36.0**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**3.57**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 08:00	Site:			
Sample #:	371006-040	Client Sample #:	SS15-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 08:02	Site:			
Sample #:	371006-041	Client Sample #:	SS15-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 08:04	Site:			
Sample #:	371006-042	Client Sample #:	SS10-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**52.7**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**1.894 J**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 08:05	Site:			
Sample #:	371006-043	Client Sample #:	SS10-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 08:06	Site:			
Sample #:	371006-044	Client Sample #:	SS10-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 08:12	Site:			
Sample #:	371006-045	Client Sample #:	SS8-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**45.0**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**2.16 J**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 08:13	Site:			
Sample #:	371006-046	Client Sample #:	SS8-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:14	**Site:**			
Sample #:	**371006-047**	**Client Sample #:**	SS8-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:16	**Site:**			
Sample #:	**371006-049**	**Client Sample #:**	SS9-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:17	**Site:**			
Sample #:	**371006-050**	**Client Sample #:**	SS9-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:32	**Site:**			
Sample #:	**371006-051**	**Client Sample #:**	SS6-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168654
TPH Gasoline	ND	1.02	0.16218	3.06	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*95*		*60-140*						
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168612
1,1,1,2-Tetrachloroethane	ND	1.09	0.2616	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.09	0.1635	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.09	0.3161	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.09	0.2398	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.09	0.8066	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethane	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloropropene	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.09	0.3597	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.09	0.3052	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromoethane	ND	1.09	0.1308	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloroethane	ND	1.09	0.1526	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloropropane	ND	1.09	0.3706	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichloropropane	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.09	0.2616	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
2,2-Dichloropropane	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
2-Butanone (MEK)	**2.0 J**	1.09	0.7848	109	ug/Kg	06/24/16	06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.09	0.327	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
2-Chlorotoluene	ND	1.09	0.2725	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
4-Chlorotoluene	ND	1.09	0.2398	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
4-Isopropyltoluene	ND	1.09	0.2943	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.09	0.1853	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Acetone	**20 J**	1.09	10.9	109	ug/Kg	06/24/16	06/24/16	ZZ	J
Allyl Chloride	ND	1.09	0.1526	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Benzene	**2.3 J**	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	J
Bromobenzene	ND	1.09	0.327	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Bromochloromethane	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Bromodichloromethane	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Bromoform	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Bromomethane	ND	1.09	0.2398	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Carbon Tetrachloride	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorodibromomethane	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroethane	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroform	ND	1.09	0.1853	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chloromethane	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,3-dichloropropene	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Dibromomethane	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:32	**Site:**			
Sample #:	**371006-051**	**Client Sample #:**	SS6-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Ethylbenzene	ND	1.09	0.2725	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.09	0.4578	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Hexachlorobutadiene	ND	1.09	0.4142	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Isopropylbenzene	ND	1.09	0.1853	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
m and p-Xylene	**0.30 J**	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ	J
Methylene chloride	**0.31 J**	1.09	0.2398	5.45	ug/Kg	06/24/16	06/24/16	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	1.09	0.2725	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Naphthalene	ND	1.09	0.3052	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
N-butylbenzene	ND	1.09	0.1744	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
N-propylbenzene	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
o-Xylene	ND	1.09	0.1417	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Sec-butylbenzene	ND	1.09	0.3706	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Styrene	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.09	9.592	10.9	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-butylbenzene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Tetrachloroethene	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Toluene	**0.88 J**	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.09	0.1526	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.09	0.4142	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Trichloroethene	ND	1.09	0.4251	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Trichlorofluoromethane	ND	1.09	0.2725	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Vinyl Chloride	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Xylenes (Total)	ND	1.09	0.4905	5.45	ug/Kg	06/24/16	06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*70-145*	
4-Bromofluorobenzene (SUR)	*114*	*70-145*	
Dibromodifluoromethane (SUR)	*107*	*70-145*	
Toluene-d8 (SUR)	*90*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:33	**Site:**			
Sample #:	**371006-052**	**Client Sample #:**	SS6-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:34	**Site:**			
Sample #:	**371006-053**	**Client Sample #:**	SS6-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:38	**Site:**			
Sample #:	**371006-054**	**Client Sample #:**	SS7-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168654
TPH Gasoline	ND	1.09	0.17331	3.27	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*			*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*89*			*60-140*					
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168612
1,1,1,2-Tetrachloroethane	ND	1.22	0.2928	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.22	0.183	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.22	0.3538	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.22	0.2684	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.22	0.9028	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethane	ND	1.22	0.2806	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethene	ND	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloropropene	ND	1.22	0.2562	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.22	0.244	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.22	0.4026	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.22	0.3416	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.22	0.244	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromoethane	ND	1.22	0.1464	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloroethane	ND	1.22	0.1708	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloropropane	ND	1.22	0.4148	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.22	0.2806	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.22	0.2562	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichloropropane	ND	1.22	0.2318	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.22	0.2928	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
2,2-Dichloropropane	ND	1.22	0.2318	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
2-Butanone (MEK)	**4.2 J**	1.22	0.8784	122	ug/Kg	06/24/16	06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.22	0.366	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
2-Chlorotoluene	ND	1.22	0.305	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
4-Chlorotoluene	ND	1.22	0.2684	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
4-Isopropyltoluene	ND	1.22	0.3294	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.22	0.2074	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Acetone	**31 J**	1.22	12.2	122	ug/Kg	06/24/16	06/24/16	ZZ	J
Allyl Chloride	ND	1.22	0.1708	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Benzene	**0.46 J**	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	J
Bromobenzene	ND	1.22	0.366	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Bromochloromethane	ND	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Bromodichloromethane	ND	1.22	0.244	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Bromoform	ND	1.22	0.2318	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Bromomethane	ND	1.22	0.2684	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Carbon Tetrachloride	ND	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorobenzene	ND	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorodibromomethane	ND	1.22	0.2318	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroethane	ND	1.22	0.244	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroform	ND	1.22	0.2074	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Chloromethane	ND	1.22	0.2562	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.22	0.244	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,3-dichloropropene	ND	1.22	0.244	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.22	0.244	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Dibromomethane	ND	1.22	0.2806	6.1	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:38	**Site:**			
Sample #:	**371006-054**	**Client Sample #:**	SS7-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1.22	0.2806	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.22	0.2562	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Ethylbenzene	ND	1.22	0.305	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.22	0.5124	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Hexachlorobutadiene	ND	1.22	0.4636	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Isopropylbenzene	ND	1.22	0.2074	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
m and p-Xylene	ND	1.22	0.2562	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Methylene chloride	ND	1.22	0.2684	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.22	0.305	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Naphthalene	ND	1.22	0.3416	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
N-butylbenzene	ND	1.22	0.1952	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
N-propylbenzene	ND	1.22	0.2318	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
o-Xylene	ND	1.22	0.1586	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Sec-butylbenzene	ND	1.22	0.4148	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Styrene	ND	1.22	0.2806	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.22	10.736	12.2	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.22	0.2318	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-butylbenzene	ND	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Tetrachloroethene	ND	1.22	0.244	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Toluene	ND	1.22	0.2806	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,2-dichloroethene	ND	1.22	0.2806	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.22	0.1708	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.22	0.4636	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Trichloroethene	ND	1.22	0.4758	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Trichlorofluoromethane	ND	1.22	0.305	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Vinyl Chloride	ND	1.22	0.2196	6.1	ug/Kg	06/24/16	06/24/16	ZZ	
Xylenes (Total)	ND	1.22	0.549	6.1	ug/Kg	06/24/16	06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*123*	*70-145*	
4-Bromofluorobenzene (SUR)	*117*	*70-145*	
Dibromodifluoromethane (SUR)	*111*	*70-145*	
Toluene-d8 (SUR)	*93*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:40	**Site:**			
Sample #:	**371006-055**	**Client Sample #:**	SS7-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:41	**Site:**			
Sample #:	**371006-056**	**Client Sample #:**	SS7-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:30	**Site:**			
Sample #:	**371006-057**	**Client Sample #:**	SS99-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1169005	
Antimony	ND	1	0.37	3	mg/Kg	07/12/16	07/13/16	JN	
Arsenic	**5.35**	1	0.36	1	mg/Kg	07/12/16	07/12/16	JN	
Barium	**107**	1	0.23	1	mg/Kg	07/12/16	07/12/16	JN	
Beryllium	ND	1	0.17	0.5	mg/Kg	07/12/16	07/12/16	JN	
Cadmium	ND	1	0.21	0.5	mg/Kg	07/12/16	07/12/16	JN	
Chromium	**13.7**	1	0.13	1	mg/Kg	07/12/16	07/12/16	JN	
Cobalt	**9.02**	1	0.19	0.5	mg/Kg	07/12/16	07/12/16	JN	
Copper	**16.0**	1	0.31	1	mg/Kg	07/12/16	07/13/16	JN	
Lead	**40.6**	1	0.32	0.5	mg/Kg	07/12/16	07/12/16	JN	
Molybdenum	ND	1	0.13	1	mg/Kg	07/12/16	07/12/16	JN	
Nickel	**8.93**	1	0.2	1.5	mg/Kg	07/12/16	07/12/16	JN	
Selenium	ND	1	0.72	1	mg/Kg	07/12/16	07/12/16	JN	
Silver	ND	1	0.13	0.5	mg/Kg	07/12/16	07/13/16	JN	
Thallium	ND	1	0.42	1	mg/Kg	07/12/16	07/12/16	JN	
Vanadium	**31.9**	1	0.37	0.5	mg/Kg	07/12/16	07/12/16	JN	
Zinc	**115**	1	0.28	5	mg/Kg	07/12/16	07/12/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168704	
Arsenic	**3.69**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A							QCBatchID:	QC1169018	
Mercury	**0.05 J**	1	0.02	0.14	mg/Kg	07/13/16	07/13/16	JP	
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168654	
TPH Gasoline	ND	1	0.159	3	mg/Kg		06/26/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*93*	*60-140*	

Method: EPA 8082 *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168612	
1,1,1,2-Tetrachloroethane	ND	0.98	0.2352	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,1-Trichloroethane	ND	0.98	0.147	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.98	0.2842	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichloroethane	ND	0.98	0.2156	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.98	0.7252	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethane	ND	0.98	0.2254	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethene	ND	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloropropene	ND	0.98	0.2058	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichloropropane	ND	0.98	0.196	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.98	0.3234	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.98	0.2744	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.98	0.196	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromoethane	ND	0.98	0.1176	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichlorobenzene	ND	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloroethane	ND	0.98	0.1372	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloropropane	ND	0.98	0.3332	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.98	0.2254	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichlorobenzene	ND	0.98	0.2058	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichloropropane	ND	0.98	0.1862	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
1,4-Dichlorobenzene	ND	0.98	0.2352	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
2,2-Dichloropropane	ND	0.98	0.1862	4.9	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:30	**Site:**			
Sample #:	**371006-057**	**Client Sample #:**	SS99-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
2-Butanone (MEK)	**2.1 J**	0.98	0.7056	98	ug/Kg	06/24/16	06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	0.98	0.294	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
2-Chlorotoluene	ND	0.98	0.245	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
4-Chlorotoluene	ND	0.98	0.2156	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
4-Isopropyltoluene	ND	0.98	0.2646	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.98	0.1666	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Acetone	**20 J**	0.98	9.8	98	ug/Kg	06/24/16	06/24/16	ZZ	J
Allyl Chloride	ND	0.98	0.1372	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Benzene	**2.1 J**	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	J
Bromobenzene	ND	0.98	0.294	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Bromochloromethane	ND	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Bromodichloromethane	ND	0.98	0.196	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Bromoform	ND	0.98	0.1862	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Bromomethane	ND	0.98	0.2156	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Carbon Tetrachloride	ND	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorobenzene	ND	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorodibromomethane	ND	0.98	0.1862	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroethane	ND	0.98	0.196	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroform	ND	0.98	0.1666	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Chloromethane	ND	0.98	0.2058	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	0.98	0.196	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,3-dichloropropene	ND	0.98	0.196	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.98	0.196	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Dibromomethane	ND	0.98	0.2254	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Dichlorodifluoromethane	ND	0.98	0.2254	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.98	0.2058	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Ethylbenzene	ND	0.98	0.245	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.98	0.4116	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Hexachlorobutadiene	ND	0.98	0.3724	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Isopropylbenzene	ND	0.98	0.1666	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
m and p-Xylene	**0.29 J**	0.98	0.2058	4.9	ug/Kg	06/24/16	06/24/16	ZZ	J
Methylene chloride	ND	0.98	0.2156	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.98	0.245	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Naphthalene	ND	0.98	0.2744	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
N-butylbenzene	ND	0.98	0.1568	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
N-propylbenzene	ND	0.98	0.1862	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
o-Xylene	ND	0.98	0.1274	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Sec-butylbenzene	ND	0.98	0.3332	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Styrene	ND	0.98	0.2254	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.98	8.624	9.8	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.98	0.1862	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-butylbenzene	ND	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Tetrachloroethene	ND	0.98	0.196	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Toluene	**0.98 J**	0.98	0.2254	4.9	ug/Kg	06/24/16	06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	0.98	0.2254	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,3-dichloropropene	ND	0.98	0.1372	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.98	0.3724	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Trichloroethene	ND	0.98	0.3822	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Trichlorofluoromethane	ND	0.98	0.245	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Vinyl Chloride	ND	0.98	0.1764	4.9	ug/Kg	06/24/16	06/24/16	ZZ	
Xylenes (Total)	ND	0.98	0.441	4.9	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:30	**Site:**			
Sample #:	**371006-057**	**Client Sample #:**	SS99-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*119*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromodifluoromethane (SUR)	*115*	*70-145*	
Toluene-d8 (SUR)	*94*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:31	**Site:**			
Sample #:	**371006-058**	**Client Sample #:**	SS99-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:32	**Site:**			
Sample #:	**371006-059**	**Client Sample #:**	SS99-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:34	**Site:**			
Sample #:	**371006-060**	**Client Sample #:**	SS89-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**16.6**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168704		
Arsenic	**6.08**	10	0.2	3	mg/Kg	06/28/16	07/05/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:35	**Site:**			
Sample #:	**371006-061**	**Client Sample #:**	SS89-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:36	**Site:**			
Sample #:	**371006-062**	**Client Sample #:**	SS89-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 09:29	Site:			
Sample #:	371006-063	Client Sample #:	SS92-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**80.9**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**5.57**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 09:30	Site:			
Sample #:	371006-064	Client Sample #:	SS92-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 09:31	Site:			
Sample #:	371006-065	Client Sample #:	SS92-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 09:25	Site:			
Sample #:	371006-066	Client Sample #:	SS90-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**33.6**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**1.277 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 09:26	Site:			
Sample #:	371006-067	Client Sample #:	SS90-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 09:26	Site:			
Sample #:	371006-068	Client Sample #:	SS90-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:52	**Site:**			
Sample #:	**371006-069**	**Client Sample #:**	SS98-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168676	
Antimony	ND	1	0.37	3	mg/Kg	06/27/16	06/29/16	JN	
Arsenic	**3.71**	1	0.36	1	mg/Kg	06/27/16	06/29/16	JN	
Barium	**128**	1	0.23	1	mg/Kg	06/27/16	06/29/16	JN	
Beryllium	ND	1	0.17	0.5	mg/Kg	06/27/16	06/29/16	JN	
Cadmium	**0.94**	1	0.21	0.5	mg/Kg	06/27/16	06/29/16	JN	
Chromium	**15.0**	1	0.13	1	mg/Kg	06/27/16	06/29/16	JN	
Cobalt	**9.45**	1	0.19	0.5	mg/Kg	06/27/16	06/29/16	JN	
Copper	**24.3**	1	0.31	1	mg/Kg	06/27/16	06/29/16	JN	B
Lead	**108**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Molybdenum	ND	1	0.13	1	mg/Kg	06/27/16	06/29/16	JN	
Nickel	**10.7**	1	0.2	1.5	mg/Kg	06/27/16	06/29/16	JN	
Selenium	ND	1	0.72	1	mg/Kg	06/27/16	06/29/16	JN	
Silver	ND	1	0.13	0.5	mg/Kg	06/27/16	06/29/16	JN	B
Thallium	ND	1	0.42	1	mg/Kg	06/27/16	06/29/16	JN	
Vanadium	**36.0**	1	0.37	0.5	mg/Kg	06/27/16	06/29/16	JN	
Zinc	**162**	1	0.28	5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168706	
Arsenic	**3.45**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A							QCBatchID:	QC1168664	
Mercury	**0.11 J**	1	0.02	0.14	mg/Kg	06/27/16	06/28/16	JP	J
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168654	
TPH Gasoline	ND	1.04	0.16536	3.12	mg/Kg		06/26/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*94*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By
Method: EPA 8260B *NELAC* Prep Method: EPA 5035						QCBatchID:	QC1168612	
1,1,1,2-Tetrachloroethane	ND	1.09	0.2616	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,1,1-Trichloroethane	ND	1.09	0.1635	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,1,2,2-Tetrachloroethane	ND	1.09	0.3161	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,1,2-Trichloroethane	ND	1.09	0.2398	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1.09	0.8066	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,1-Dichloroethane	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,1-Dichloroethene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,1-Dichloropropene	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2,3-Trichlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2,3-Trichloropropane	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2,4-Trichlorobenzene	ND	1.09	0.3597	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2,4-Trimethylbenzene	ND	1.09	0.3052	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2-Dibromo-3-chloropropane	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2-Dibromoethane	ND	1.09	0.1308	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2-Dichlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2-Dichloroethane	ND	1.09	0.1526	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,2-Dichloropropane	ND	1.09	0.3706	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,3,5-Trimethylbenzene	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,3-Dichlorobenzene	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,3-Dichloropropane	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ
1,4-Dichlorobenzene	ND	1.09	0.2616	5.45	ug/Kg	06/24/16	06/24/16	ZZ
2,2-Dichloropropane	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ
2-Butanone (MEK)	ND	1.09	0.7848	109	ug/Kg	06/24/16	06/24/16	ZZ
2-Chloroethyl Vinyl Ether	ND	1.09	0.327	5.45	ug/Kg	06/24/16	06/24/16	ZZ

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:52	**Site:**			
Sample #:	**371006-069**	**Client Sample #:**	SS98-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
2-Chlorotoluene	ND	1.09	0.2725	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
4-Chlorotoluene	ND	1.09	0.2398	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
4-Isopropyltoluene	ND	1.09	0.2943	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.09	0.1853	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Acetone	**16 J**	1.09	10.9	109	ug/Kg	06/24/16	06/24/16	ZZ	J
Allyl Chloride	ND	1.09	0.1526	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Benzene	**1.6 J**	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	J
Bromobenzene	ND	1.09	0.327	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Bromochloromethane	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Bromodichloromethane	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Bromoform	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Bromomethane	ND	1.09	0.2398	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Carbon Tetrachloride	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorodibromomethane	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroethane	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroform	ND	1.09	0.1853	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Chloromethane	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,3-dichloropropene	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Dibromomethane	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Ethylbenzene	ND	1.09	0.2725	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.09	0.4578	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Hexachlorobutadiene	ND	1.09	0.4142	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Isopropylbenzene	ND	1.09	0.1853	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
m and p-Xylene	ND	1.09	0.2289	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Methylene chloride	ND	1.09	0.2398	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.09	0.2725	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Naphthalene	ND	1.09	0.3052	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
N-butylbenzene	ND	1.09	0.1744	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
N-propylbenzene	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
o-Xylene	ND	1.09	0.1417	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Sec-butylbenzene	ND	1.09	0.3706	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Styrene	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.09	9.592	10.9	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.09	0.2071	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-butylbenzene	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Tetrachloroethene	ND	1.09	0.218	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Toluene	**0.57 J**	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.09	0.2507	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.09	0.1526	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.09	0.4142	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Trichloroethene	ND	1.09	0.4251	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Trichlorofluoromethane	ND	1.09	0.2725	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Vinyl Chloride	ND	1.09	0.1962	5.45	ug/Kg	06/24/16	06/24/16	ZZ	
Xylenes (Total)	ND	1.09	0.4905	5.45	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:52	**Site:**			
Sample #:	**371006-069**	**Client Sample #:**	SS98-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*120*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromodifluoromethane (SUR)	*114*	*70-145*	
Toluene-d8 (SUR)	*95*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:52	**Site:**			
Sample #:	**371006-070**	**Client Sample #:**	SS98-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:	QC1168676	
Antimony	ND	1	0.37	3	mg/Kg	06/27/16	06/29/16	JN	
Arsenic	**4.42**	1	0.36	1	mg/Kg	06/27/16	06/29/16	JN	
Barium	**124**	1	0.23	1	mg/Kg	06/27/16	06/29/16	JN	
Beryllium	ND	1	0.17	0.5	mg/Kg	06/27/16	06/29/16	JN	
Cadmium	**1.61**	1	0.21	0.5	mg/Kg	06/27/16	06/28/16	JN	
Chromium	**17.1**	1	0.13	1	mg/Kg	06/27/16	06/29/16	JN	
Cobalt	**12.0**	1	0.19	0.5	mg/Kg	06/27/16	06/29/16	JN	
Copper	**15.0**	1	0.31	1	mg/Kg	06/27/16	06/29/16	JN	B
Lead	**3.79**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Molybdenum	ND	1	0.13	1	mg/Kg	06/27/16	06/29/16	JN	
Nickel	**11.3**	1	0.2	1.5	mg/Kg	06/27/16	06/29/16	JN	
Selenium	ND	1	0.72	1	mg/Kg	06/27/16	06/29/16	JN	
Silver	ND	1	0.13	0.5	mg/Kg	06/27/16	06/29/16	JN	B
Thallium	ND	1	0.42	1	mg/Kg	06/27/16	06/29/16	JN	
Vanadium	**43.2**	1	0.37	0.5	mg/Kg	06/27/16	06/29/16	JN	
Zinc	**429**	1	0.28	5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 7471A *NELAC*	Prep Method: EPA 7471A						QCBatchID:	QC1168664	
Mercury	**0.07 J**	1	0.02	0.14	mg/Kg	06/27/16	06/28/16	JP	J
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:	QC1168722	
TPH Gasoline	ND	1	0.159	3	mg/Kg		06/30/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*93*	*60-140*	

Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:	QC1168721	
1,1,1,2-Tetrachloroethane	ND	1	0.24	5	ug/Kg		06/30/16	ZZ	
1,1,1-Trichloroethane	ND	1	0.15	5	ug/Kg		06/30/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	0.29	5	ug/Kg		06/30/16	ZZ	
1,1,2-Trichloroethane	ND	1	0.22	5	ug/Kg		06/30/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.74	5	ug/Kg		06/30/16	ZZ	
1,1-Dichloroethane	ND	1	0.23	5	ug/Kg		06/30/16	ZZ	
1,1-Dichloroethene	ND	1	0.18	5	ug/Kg		06/30/16	ZZ	
1,1-Dichloropropene	ND	1	0.21	5	ug/Kg		06/30/16	ZZ	
1,2,3-Trichlorobenzene	ND	1	0.18	5	ug/Kg		06/30/16	ZZ	
1,2,3-Trichloropropane	ND	1	0.2	5	ug/Kg		06/30/16	ZZ	
1,2,4-Trichlorobenzene	ND	1	0.33	5	ug/Kg		06/30/16	ZZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/Kg		06/30/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	0.2	5	ug/Kg		06/30/16	ZZ	
1,2-Dibromoethane	ND	1	0.12	5	ug/Kg		06/30/16	ZZ	
1,2-Dichlorobenzene	ND	1	0.18	5	ug/Kg		06/30/16	ZZ	
1,2-Dichloroethane	ND	1	0.14	5	ug/Kg		06/30/16	ZZ	
1,2-Dichloropropane	ND	1	0.34	5	ug/Kg		06/30/16	ZZ	
1,3,5-Trimethylbenzene	ND	1	0.23	5	ug/Kg		06/30/16	ZZ	
1,3-Dichlorobenzene	ND	1	0.21	5	ug/Kg		06/30/16	ZZ	
1,3-Dichloropropane	ND	1	0.19	5	ug/Kg		06/30/16	ZZ	
1,4-Dichlorobenzene	ND	1	0.24	5	ug/Kg		06/30/16	ZZ	
2,2-Dichloropropane	ND	1	0.19	5	ug/Kg		06/30/16	ZZ	
2-Butanone (MEK)	ND	1	0.72	100	ug/Kg		06/30/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1	0.3	5	ug/Kg		06/30/16	ZZ	
2-Chlorotoluene	ND	1	0.25	5	ug/Kg		06/30/16	ZZ	
4-Chlorotoluene	ND	1	0.22	5	ug/Kg		06/30/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:52	**Site:**			
Sample #:	**371006-070**	**Client Sample #:**	SS98-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
4-Isopropyltoluene	ND	1	0.27	5	ug/Kg		06/30/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.17	5	ug/Kg		06/30/16	ZZ	
Acetone	ND	1	10	100	ug/Kg		06/30/16	ZZ	
Allyl Chloride	ND	1	0.14	5	ug/Kg		06/30/16	ZZ	
Benzene	**0.41 J**	1	0.18	5	ug/Kg		06/30/16	ZZ	J
Bromobenzene	ND	1	0.3	5	ug/Kg		06/30/16	ZZ	
Bromochloromethane	ND	1	0.18	5	ug/Kg		06/30/16	ZZ	
Bromodichloromethane	ND	1	0.2	5	ug/Kg		06/30/16	ZZ	
Bromoform	ND	1	0.19	5	ug/Kg		06/30/16	ZZ	
Bromomethane	ND	1	0.22	5	ug/Kg		06/30/16	ZZ	
Carbon Tetrachloride	ND	1	0.18	5	ug/Kg		06/30/16	ZZ	
Chlorobenzene	ND	1	0.18	5	ug/Kg		06/30/16	ZZ	
Chlorodibromomethane	ND	1	0.19	5	ug/Kg		06/30/16	ZZ	
Chloroethane	ND	1	0.2	5	ug/Kg		06/30/16	ZZ	
Chloroform	ND	1	0.17	5	ug/Kg		06/30/16	ZZ	
Chloromethane	ND	1	0.21	5	ug/Kg		06/30/16	ZZ	
cis-1,2-Dichloroethene	ND	1	0.2	5	ug/Kg		06/30/16	ZZ	
cis-1,3-dichloropropene	ND	1	0.2	5	ug/Kg		06/30/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1	0.2	5	ug/Kg		06/30/16	ZZ	
Dibromomethane	ND	1	0.23	5	ug/Kg		06/30/16	ZZ	
Dichlorodifluoromethane	ND	1	0.23	5	ug/Kg		06/30/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1	0.21	5	ug/Kg		06/30/16	ZZ	
Ethylbenzene	ND	1	0.25	5	ug/Kg		06/30/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.42	5	ug/Kg		06/30/16	ZZ	
Hexachlorobutadiene	ND	1	0.38	5	ug/Kg		06/30/16	ZZ	
Isopropylbenzene	ND	1	0.17	5	ug/Kg		06/30/16	ZZ	
m and p-Xylene	ND	1	0.21	5	ug/Kg		06/30/16	ZZ	
Methylene chloride	ND	1	0.22	5	ug/Kg		06/30/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	0.25	5	ug/Kg		06/30/16	ZZ	
Naphthalene	ND	1	0.28	5	ug/Kg		06/30/16	ZZ	
N-butylbenzene	ND	1	0.16	5	ug/Kg		06/30/16	ZZ	
N-propylbenzene	ND	1	0.19	5	ug/Kg		06/30/16	ZZ	
o-Xylene	ND	1	0.13	5	ug/Kg		06/30/16	ZZ	
Sec-butylbenzene	ND	1	0.34	5	ug/Kg		06/30/16	ZZ	
Styrene	ND	1	0.23	5	ug/Kg		06/30/16	ZZ	
t-Butyl alcohol (TBA)	ND	1	8.8	10	ug/Kg		06/30/16	ZZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/Kg		06/30/16	ZZ	
Tert-butylbenzene	ND	1	0.18	5	ug/Kg		06/30/16	ZZ	
Tetrachloroethene	ND	1	0.2	5	ug/Kg		06/30/16	ZZ	
Toluene	ND	1	0.23	5	ug/Kg		06/30/16	ZZ	
trans-1,2-dichloroethene	ND	1	0.23	5	ug/Kg		06/30/16	ZZ	
trans-1,3-dichloropropene	ND	1	0.14	5	ug/Kg		06/30/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1	0.38	5	ug/Kg		06/30/16	ZZ	
Trichloroethene	ND	1	0.39	5	ug/Kg		06/30/16	ZZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/Kg		06/30/16	ZZ	
Vinyl Chloride	ND	1	0.18	5	ug/Kg		06/30/16	ZZ	
Xylenes (Total)	ND	1	0.45	5	ug/Kg		06/30/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*105*	*70-145*	
4-Bromofluorobenzene (SUR)	*107*	*70-145*	
Dibromodifluoromethane (SUR)	*109*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:54	**Site:**			
Sample #:	**371006-071**	**Client Sample #:**	SS98-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 08:55	**Site:**			
Sample #:	**371006-072**	**Client Sample #:**	SS98-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:15	**Site:**			
Sample #:	**371006-073**	**Client Sample #:**	SS63-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:16	**Site:**			
Sample #:	**371006-074**	**Client Sample #:**	SS63-5.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:17	**Site:**			
Sample #:	**371006-075**	**Client Sample #:**	SS63-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168654
TPH Gasoline	ND	1.22	0.19398	3.66	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*62*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168612
1,1,1,2-Tetrachloroethane	ND	1.16	0.2784	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.16	0.174	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.16	0.3364	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.16	0.2552	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.16	0.8584	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethane	ND	1.16	0.2668	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethene	ND	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloropropene	ND	1.16	0.2436	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.16	0.232	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.16	0.3828	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.16	0.3248	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.16	0.232	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromoethane	ND	1.16	0.1392	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloroethane	ND	1.16	0.1624	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloropropane	ND	1.16	0.3944	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.16	0.2668	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.16	0.2436	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichloropropane	ND	1.16	0.2204	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.16	0.2784	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
2,2-Dichloropropane	ND	1.16	0.2204	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
2-Butanone (MEK)	ND	1.16	0.8352	116	ug/Kg	06/24/16	06/24/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.16	0.348	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
2-Chlorotoluene	ND	1.16	0.29	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
4-Chlorotoluene	ND	1.16	0.2552	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
4-Isopropyltoluene	ND	1.16	0.3132	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.16	0.1972	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Acetone	ND	1.16	11.6	116	ug/Kg	06/24/16	06/24/16	ZZ	
Allyl Chloride	ND	1.16	0.1624	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Benzene	**0.43 J**	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	J
Bromobenzene	ND	1.16	0.348	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Bromochloromethane	ND	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Bromodichloromethane	ND	1.16	0.232	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Bromoform	ND	1.16	0.2204	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Bromomethane	ND	1.16	0.2552	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Carbon Tetrachloride	ND	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorobenzene	ND	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorodibromomethane	ND	1.16	0.2204	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroethane	ND	1.16	0.232	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroform	ND	1.16	0.1972	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Chloromethane	ND	1.16	0.2436	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.16	0.232	5.8	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:17	**Site:**			
Sample #:	**371006-075**	**Client Sample #:**	SS63-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.16	0.232	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.16	0.232	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Dibromomethane	ND	1.16	0.2668	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.16	0.2668	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.16	0.2436	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Ethylbenzene	ND	1.16	0.29	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.16	0.4872	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Hexachlorobutadiene	ND	1.16	0.4408	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Isopropylbenzene	ND	1.16	0.1972	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
m and p-Xylene	ND	1.16	0.2436	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Methylene chloride	ND	1.16	0.2552	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.16	0.29	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Naphthalene	ND	1.16	0.3248	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
N-butylbenzene	ND	1.16	0.1856	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
N-propylbenzene	ND	1.16	0.2204	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
o-Xylene	ND	1.16	0.1508	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Sec-butylbenzene	ND	1.16	0.3944	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Styrene	ND	1.16	0.2668	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.16	10.208	11.6	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.16	0.2204	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-butylbenzene	ND	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Tetrachloroethene	ND	1.16	0.232	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Toluene	**0.27 J**	1.16	0.2668	5.8	ug/Kg	06/24/16	06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.16	0.2668	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.16	0.1624	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.16	0.4408	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Trichloroethene	ND	1.16	0.4524	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Trichlorofluoromethane	ND	1.16	0.29	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Vinyl Chloride	ND	1.16	0.2088	5.8	ug/Kg	06/24/16	06/24/16	ZZ	
Xylenes (Total)	ND	1.16	0.522	5.8	ug/Kg	06/24/16	06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*70-145*	
4-Bromofluorobenzene (SUR)	*103*	*70-145*	
Dibromodifluoromethane (SUR)	*107*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:10	**Site:**			
Sample #:	**371006-076**	**Client Sample #:**	SS55-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168676	
Lead	**38.7**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168706	
Arsenic	**20.5**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168654	
TPH Gasoline	ND	1.11	0.17649	3.33	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*		*Limits*		*Notes*				
4-Bromofluorobenzene (SUR)	*94*		*60-140*						
Method: EPA 8082 *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168612	
1,1,1,2-Tetrachloroethane	ND	1.14	0.2736	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.14	0.171	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.14	0.3306	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.14	0.8436	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloropropene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.14	0.3762	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.14	0.3192	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromoethane	ND	1.14	0.1368	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloroethane	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloropropane	ND	1.14	0.3876	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.14	0.2736	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
2,2-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
2-Butanone (MEK)	**1.9 J**	1.14	0.8208	114	ug/Kg	06/24/16	06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.14	0.342	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
2-Chlorotoluene	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
4-Chlorotoluene	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
4-Isopropyltoluene	ND	1.14	0.3078	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Acetone	**16 J**	1.14	11.4	114	ug/Kg	06/24/16	06/24/16	ZZ	J
Allyl Chloride	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Benzene	**1.7 J**	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	J
Bromobenzene	ND	1.14	0.342	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Bromochloromethane	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Bromodichloromethane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Bromoform	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Bromomethane	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Carbon Tetrachloride	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorodibromomethane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:10	**Site:**			
Sample #:	**371006-076**	**Client Sample #:**	SS55-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Chloroethane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroform	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Chloromethane	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,3-dichloropropene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Dibromomethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Ethylbenzene	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.14	0.4788	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Hexachlorobutadiene	ND	1.14	0.4332	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Isopropylbenzene	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
m and p-Xylene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Methylene chloride	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Naphthalene	ND	1.14	0.3192	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
N-butylbenzene	ND	1.14	0.1824	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
N-propylbenzene	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
o-Xylene	ND	1.14	0.1482	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Sec-butylbenzene	ND	1.14	0.3876	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Styrene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.14	10.032	11.4	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-butylbenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Tetrachloroethene	**0.44 J**	1.14	0.228	5.7	ug/Kg	06/24/16	06/24/16	ZZ	J
Toluene	**0.68 J**	1.14	0.2622	5.7	ug/Kg	06/24/16	06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.14	0.4332	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Trichloroethene	ND	1.14	0.4446	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Trichlorofluoromethane	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Vinyl Chloride	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/24/16	ZZ	
Xylenes (Total)	ND	1.14	0.513	5.7	ug/Kg	06/24/16	06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*116*	*70-145*	
4-Bromofluorobenzene (SUR)	*102*	*70-145*	
Dibromodifluoromethane (SUR)	*112*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:11	**Site:**			
Sample #:	**371006-077**	**Client Sample #:**	SS55-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:12	**Site:**			
Sample #:	**371006-078**	**Client Sample #:**	SS55-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:16	**Site:**			
Sample #:	**371006-079**	**Client Sample #:**	SS67-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:		QC1168676
Antimony	ND	1	0.37	3	mg/Kg	06/27/16	06/29/16	JN	
Arsenic	**5.47**	1	0.36	1	mg/Kg	06/27/16	06/29/16	JN	
Barium	**132**	1	0.23	1	mg/Kg	06/27/16	06/29/16	JN	
Beryllium	ND	1	0.17	0.5	mg/Kg	06/27/16	06/29/16	JN	
Cadmium	**0.38 J**	1	0.21	0.5	mg/Kg	06/27/16	06/28/16	JN	J
Chromium	**18.4**	1	0.13	1	mg/Kg	06/27/16	06/29/16	JN	
Cobalt	**11.0**	1	0.19	0.5	mg/Kg	06/27/16	06/29/16	JN	
Copper	**18.6**	1	0.31	1	mg/Kg	06/27/16	06/29/16	JN	B
Lead	**44.3**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Molybdenum	ND	1	0.13	1	mg/Kg	06/27/16	06/29/16	JN	
Nickel	**11.4**	1	0.2	1.5	mg/Kg	06/27/16	06/29/16	JN	
Selenium	ND	1	0.72	1	mg/Kg	06/27/16	06/29/16	JN	
Silver	ND	1	0.13	0.5	mg/Kg	06/27/16	06/29/16	JN	B
Thallium	ND	1	0.42	1	mg/Kg	06/27/16	06/29/16	JN	
Vanadium	**42.3**	1	0.37	0.5	mg/Kg	06/27/16	06/29/16	JN	
Zinc	**102**	1	0.28	5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:		QC1168706
Arsenic	**2.55 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A							QCBatchID:		QC1168664
Mercury	**0.11 J**	1	0.02	0.14	mg/Kg	06/27/16	06/28/16	JP	J
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:		QC1168654
TPH Gasoline	ND	0.98	0.15582	2.94	mg/Kg		06/26/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*98*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8082 *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:		QC1168612
1,1,1,2-Tetrachloroethane	ND	1	0.24	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1	0.15	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	0.29	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1	0.22	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.74	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethane	ND	1	0.23	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethene	ND	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloropropene	ND	1	0.21	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1	0.2	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1	0.33	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	0.2	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromoethane	ND	1	0.12	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloroethane	ND	1	0.14	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloropropane	ND	1	0.34	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1	0.23	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1	0.21	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichloropropane	ND	1	0.19	5	ug/Kg	06/24/16	06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1	0.24	5	ug/Kg	06/24/16	06/24/16	ZZ	
2,2-Dichloropropane	ND	1	0.19	5	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:16	**Site:**			
Sample #:	**371006-079**	**Client Sample #:**	SS67-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
2-Butanone (MEK)	**2.0 J**	1	0.72	100	ug/Kg	06/24/16	06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1	0.3	5	ug/Kg	06/24/16	06/24/16	ZZ	
2-Chlorotoluene	ND	1	0.25	5	ug/Kg	06/24/16	06/24/16	ZZ	
4-Chlorotoluene	ND	1	0.22	5	ug/Kg	06/24/16	06/24/16	ZZ	
4-Isopropyltoluene	ND	1	0.27	5	ug/Kg	06/24/16	06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.17	5	ug/Kg	06/24/16	06/24/16	ZZ	
Acetone	**14 J**	1	10	100	ug/Kg	06/24/16	06/24/16	ZZ	J
Allyl Chloride	ND	1	0.14	5	ug/Kg	06/24/16	06/24/16	ZZ	
Benzene	**1.9 J**	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	J
Bromobenzene	ND	1	0.3	5	ug/Kg	06/24/16	06/24/16	ZZ	
Bromochloromethane	ND	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	
Bromodichloromethane	ND	1	0.2	5	ug/Kg	06/24/16	06/24/16	ZZ	
Bromoform	ND	1	0.19	5	ug/Kg	06/24/16	06/24/16	ZZ	
Bromomethane	ND	1	0.22	5	ug/Kg	06/24/16	06/24/16	ZZ	
Carbon Tetrachloride	ND	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorobenzene	ND	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorodibromomethane	ND	1	0.19	5	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroethane	ND	1	0.2	5	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroform	ND	1	0.17	5	ug/Kg	06/24/16	06/24/16	ZZ	
Chloromethane	ND	1	0.21	5	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1	0.2	5	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,3-dichloropropene	ND	1	0.2	5	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1	0.2	5	ug/Kg	06/24/16	06/24/16	ZZ	
Dibromomethane	ND	1	0.23	5	ug/Kg	06/24/16	06/24/16	ZZ	
Dichlorodifluoromethane	ND	1	0.23	5	ug/Kg	06/24/16	06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1	0.21	5	ug/Kg	06/24/16	06/24/16	ZZ	
Ethylbenzene	ND	1	0.25	5	ug/Kg	06/24/16	06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.42	5	ug/Kg	06/24/16	06/24/16	ZZ	
Hexachlorobutadiene	ND	1	0.38	5	ug/Kg	06/24/16	06/24/16	ZZ	
Isopropylbenzene	ND	1	0.17	5	ug/Kg	06/24/16	06/24/16	ZZ	
m and p-Xylene	ND	1	0.21	5	ug/Kg	06/24/16	06/24/16	ZZ	
Methylene chloride	**0.23 J**	1	0.22	5	ug/Kg	06/24/16	06/24/16	ZZ	J
Methyl-t-butyl Ether (MTBE)	ND	1	0.25	5	ug/Kg	06/24/16	06/24/16	ZZ	
Naphthalene	ND	1	0.28	5	ug/Kg	06/24/16	06/24/16	ZZ	
N-butylbenzene	ND	1	0.16	5	ug/Kg	06/24/16	06/24/16	ZZ	
N-propylbenzene	ND	1	0.19	5	ug/Kg	06/24/16	06/24/16	ZZ	
o-Xylene	ND	1	0.13	5	ug/Kg	06/24/16	06/24/16	ZZ	
Sec-butylbenzene	ND	1	0.34	5	ug/Kg	06/24/16	06/24/16	ZZ	
Styrene	ND	1	0.23	5	ug/Kg	06/24/16	06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1	8.8	10	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-butylbenzene	ND	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	
Tetrachloroethene	ND	1	0.2	5	ug/Kg	06/24/16	06/24/16	ZZ	
Toluene	**0.78 J**	1	0.23	5	ug/Kg	06/24/16	06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1	0.23	5	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1	0.14	5	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1	0.38	5	ug/Kg	06/24/16	06/24/16	ZZ	
Trichloroethene	ND	1	0.39	5	ug/Kg	06/24/16	06/24/16	ZZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/Kg	06/24/16	06/24/16	ZZ	
Vinyl Chloride	ND	1	0.18	5	ug/Kg	06/24/16	06/24/16	ZZ	
Xylenes (Total)	ND	1	0.45	5	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:16	**Site:**			
Sample #:	**371006-079**	**Client Sample #:**	SS67-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*122*	*70-145*	
4-Bromofluorobenzene (SUR)	*104*	*70-145*	
Dibromodifluoromethane (SUR)	*110*	*70-145*	
Toluene-d8 (SUR)	*95*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:16	**Site:**			
Sample #:	**371006-080**	**Client Sample #:**	SS67-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168654
TPH Gasoline	ND	1.11	0.17649	3.33	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*92*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168612
1,1,1,2-Tetrachloroethane	ND	1.06	0.2544	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,1-Trichloroethane	ND	1.06	0.159	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.06	0.3074	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichloroethane	ND	1.06	0.2332	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.06	0.7844	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethane	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloroethene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,1-Dichloropropene	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,3-Trichloropropane	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.06	0.3498	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.06	0.2968	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dibromoethane	ND	1.06	0.1272	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichlorobenzene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloroethane	ND	1.06	0.1484	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,2-Dichloropropane	ND	1.06	0.3604	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichlorobenzene	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,3-Dichloropropane	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
1,4-Dichlorobenzene	ND	1.06	0.2544	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
2,2-Dichloropropane	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
2-Butanone (MEK)	**1.3 J**	1.06	0.7632	106	ug/Kg	06/24/16	06/24/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.06	0.318	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
2-Chlorotoluene	ND	1.06	0.265	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
4-Chlorotoluene	ND	1.06	0.2332	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
4-Isopropyltoluene	ND	1.06	0.2862	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.06	0.1802	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Acetone	**16 J**	1.06	10.6	106	ug/Kg	06/24/16	06/24/16	ZZ	J
Allyl Chloride	ND	1.06	0.1484	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Benzene	**2.3 J**	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	J
Bromobenzene	ND	1.06	0.318	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Bromochloromethane	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Bromodichloromethane	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Bromoform	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Bromomethane	ND	1.06	0.2332	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Carbon Tetrachloride	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorobenzene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Chlorodibromomethane	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroethane	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Chloroform	ND	1.06	0.1802	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Chloromethane	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,2-Dichloroethene	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/24/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:16	**Site:**			
Sample #:	**371006-080**	**Client Sample #:**	SS67-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Dibromomethane	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Dichlorodifluoromethane	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Ethylbenzene	ND	1.06	0.265	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.06	0.4452	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Hexachlorobutadiene	ND	1.06	0.4028	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Isopropylbenzene	ND	1.06	0.1802	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
m and p-Xylene	**0.23 J**	1.06	0.2226	5.3	ug/Kg	06/24/16	06/24/16	ZZ	J
Methylene chloride	ND	1.06	0.2332	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.06	0.265	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Naphthalene	ND	1.06	0.2968	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
N-butylbenzene	ND	1.06	0.1696	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
N-propylbenzene	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
o-Xylene	ND	1.06	0.1378	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Sec-butylbenzene	ND	1.06	0.3604	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Styrene	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.06	9.328	10.6	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Tert-butylbenzene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Tetrachloroethene	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Toluene	**1.0 J**	1.06	0.2438	5.3	ug/Kg	06/24/16	06/24/16	ZZ	J
trans-1,2-dichloroethene	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,3-dichloropropene	ND	1.06	0.1484	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.06	0.4028	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Trichloroethene	ND	1.06	0.4134	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Trichlorofluoromethane	ND	1.06	0.265	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Vinyl Chloride	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/24/16	ZZ	
Xylenes (Total)	ND	1.06	0.477	5.3	ug/Kg	06/24/16	06/24/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*121*	*70-145*	
4-Bromofluorobenzene (SUR)	*106*	*70-145*	
Dibromodifluoromethane (SUR)	*113*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:17	**Site:**			
Sample #:	**371006-081**	**Client Sample #:**	SS67-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:18	**Site:**			
Sample #:	**371006-082**	**Client Sample #:**	SS67-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:20	**Site:**			
Sample #:	**371006-083**	**Client Sample #:**	SS68-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168676	
Antimony	ND	1	0.37	3	mg/Kg	06/27/16	06/29/16	JN	
Arsenic	**6.69**	1	0.36	1	mg/Kg	06/27/16	06/29/16	JN	
Barium	**167**	1	0.23	1	mg/Kg	06/27/16	06/29/16	JN	
Beryllium	ND	1	0.17	0.5	mg/Kg	06/27/16	06/29/16	JN	
Cadmium	**0.70**	1	0.21	0.5	mg/Kg	06/27/16	06/28/16	JN	
Chromium	**17.7**	1	0.13	1	mg/Kg	06/27/16	06/29/16	JN	
Cobalt	**9.61**	1	0.19	0.5	mg/Kg	06/27/16	06/29/16	JN	
Copper	**25.3**	1	0.31	1	mg/Kg	06/27/16	06/29/16	JN	B
Lead	**124**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Molybdenum	ND	1	0.13	1	mg/Kg	06/27/16	06/29/16	JN	
Nickel	**11.6**	1	0.2	1.5	mg/Kg	06/27/16	06/29/16	JN	
Selenium	ND	1	0.72	1	mg/Kg	06/27/16	06/29/16	JN	
Silver	ND	1	0.13	0.5	mg/Kg	06/27/16	06/29/16	JN	B
Thallium	ND	1	0.42	1	mg/Kg	06/27/16	06/29/16	JN	
Vanadium	**37.3**	1	0.37	0.5	mg/Kg	06/27/16	06/29/16	JN	
Zinc	**391**	1	0.28	5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168706	
Arsenic	**5.18**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A							QCBatchID:	QC1168844	
Mercury	**0.09 J**	1	0.02	0.14	mg/Kg	07/06/16	07/06/16	JP	J
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168654	
TPH Gasoline	ND	1.02	0.16218	3.06	mg/Kg		06/26/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*93*	*60-140*	

Method: EPA 8082 *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168612	
1,1,1,2-Tetrachloroethane	ND	1.06	0.2544	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	1.06	0.159	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.06	0.3074	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	1.06	0.2332	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.06	0.7844	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.06	0.3498	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.06	0.2968	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	1.06	0.1272	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	1.06	0.1484	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	1.06	0.3604	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	1.06	0.2544	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:20	**Site:**			
Sample #:	**371006-083**	**Client Sample #:**	SS68-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
2-Butanone (MEK)	**1.8 J**	1.06	0.7632	106	ug/Kg	06/24/16	06/25/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.06	0.318	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
2-Chlorotoluene	ND	1.06	0.265	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
4-Chlorotoluene	ND	1.06	0.2332	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	1.06	0.2862	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.06	0.1802	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Acetone	**14 J**	1.06	10.6	106	ug/Kg	06/24/16	06/25/16	ZZ	J
Allyl Chloride	ND	1.06	0.1484	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Benzene	**1.4 J**	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	J
Bromobenzene	ND	1.06	0.318	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Bromochloromethane	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Bromodichloromethane	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Bromoform	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Bromomethane	ND	1.06	0.2332	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorobenzene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorodibromomethane	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroethane	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroform	ND	1.06	0.1802	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Chloromethane	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,3-dichloropropene	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Dibromomethane	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Dichlorodifluoromethane	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Ethylbenzene	ND	1.06	0.265	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.06	0.4452	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	1.06	0.4028	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Isopropylbenzene	ND	1.06	0.1802	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
m and p-Xylene	ND	1.06	0.2226	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Methylene chloride	ND	1.06	0.2332	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.06	0.265	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Naphthalene	ND	1.06	0.2968	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
N-butylbenzene	ND	1.06	0.1696	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
N-propylbenzene	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
o-Xylene	ND	1.06	0.1378	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Sec-butylbenzene	ND	1.06	0.3604	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Styrene	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.06	9.328	10.6	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.06	0.2014	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-butylbenzene	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Tetrachloroethene	ND	1.06	0.212	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Toluene	**0.61 J**	1.06	0.2438	5.3	ug/Kg	06/24/16	06/25/16	ZZ	J
trans-1,2-dichloroethene	ND	1.06	0.2438	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	1.06	0.1484	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.06	0.4028	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Trichloroethene	ND	1.06	0.4134	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	1.06	0.265	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Vinyl Chloride	ND	1.06	0.1908	5.3	ug/Kg	06/24/16	06/25/16	ZZ	
Xylenes (Total)	ND	1.06	0.477	5.3	ug/Kg	06/24/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:20	**Site:**			
Sample #:	**371006-083**	**Client Sample #:**	SS68-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*124*	*70-145*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromodifluoromethane (SUR)	*115*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:21	**Site:**			
Sample #:	**371006-084**	**Client Sample #:**	SS68-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:22	**Site:**			
Sample #:	**371006-085**	**Client Sample #:**	SS68-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:24	**Site:**			
Sample #:	**371006-086**	**Client Sample #:**	SS62-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:25	**Site:**			
Sample #:	**371006-087**	**Client Sample #:**	SS62-5.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:26	**Site:**			
Sample #:	**371006-088**	**Client Sample #:**	SS62-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168654
TPH Gasoline	ND	1.11	0.17649	3.33	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*93*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168612
1,1,1,2-Tetrachloroethane	ND	1.14	0.2736	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	1.14	0.171	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.14	0.3306	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.14	0.8436	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.14	0.3762	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.14	0.3192	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	1.14	0.1368	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	1.14	0.3876	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	1.14	0.2736	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
2-Butanone (MEK)	ND	1.14	0.8208	114	ug/Kg	06/24/16	06/25/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.14	0.342	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
2-Chlorotoluene	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
4-Chlorotoluene	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	1.14	0.3078	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Acetone	ND	1.14	11.4	114	ug/Kg	06/24/16	06/25/16	ZZ	
Allyl Chloride	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Benzene	**0.34 J**	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	J
Bromobenzene	ND	1.14	0.342	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Bromochloromethane	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Bromodichloromethane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Bromoform	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Bromomethane	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorodibromomethane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroethane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroform	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chloromethane	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:26	**Site:**			
Sample #:	**371006-088**	**Client Sample #:**	SS62-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Dibromomethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Dichlorodifluoromethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Ethylbenzene	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.14	0.4788	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	1.14	0.4332	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Isopropylbenzene	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
m and p-Xylene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Methylene chloride	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Naphthalene	ND	1.14	0.3192	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
N-butylbenzene	ND	1.14	0.1824	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
N-propylbenzene	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
o-Xylene	ND	1.14	0.1482	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Sec-butylbenzene	ND	1.14	0.3876	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Styrene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.14	10.032	11.4	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-butylbenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Tetrachloroethene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Toluene	**0.28 J**	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	J
trans-1,2-dichloroethene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.14	0.4332	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Trichloroethene	ND	1.14	0.4446	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Vinyl Chloride	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Xylenes (Total)	ND	1.14	0.513	5.7	ug/Kg	06/24/16	06/25/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*132*	*70-145*	
4-Bromofluorobenzene (SUR)	*113*	*70-145*	
Dibromodifluoromethane (SUR)	*119*	*70-145*	
Toluene-d8 (SUR)	*95*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:34	**Site:**			
Sample #:	**371006-089**	**Client Sample #:**	SS51-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**71.9**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**2.31 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:35	**Site:**			
Sample #:	**371006-090**	**Client Sample #:**	SS51-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 10:37	Site:			
Sample #:	371006-091	Client Sample #:	SS51-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 10:42	Site:			
Sample #:	371006-092	Client Sample #:	SS52-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**32.7**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**1.877 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 10:43	Site:			
Sample #:	371006-093	Client Sample #:	SS52-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 10:44	Site:			
Sample #:	371006-094	Client Sample #:	SS52-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 10:50	Site:			
Sample #:	371006-095	Client Sample #:	SS60-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 10:52	Site:			
Sample #:	371006-096	Client Sample #:	SS60-5.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:54	**Site:**			
Sample #:	**371006-097**	**Client Sample #:**	SS60-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168654
TPH Gasoline	ND	1.19	0.18921	3.57	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*92*		*60-140*						
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168612
1,1,1,2-Tetrachloroethane	ND	1.14	0.2736	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	1.14	0.171	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.14	0.3306	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.14	0.8436	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.14	0.3762	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.14	0.3192	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	1.14	0.1368	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	1.14	0.3876	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	1.14	0.2736	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
2-Butanone (MEK)	ND	1.14	0.8208	114	ug/Kg	06/24/16	06/25/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.14	0.342	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
2-Chlorotoluene	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
4-Chlorotoluene	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	1.14	0.3078	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Acetone	ND	1.14	11.4	114	ug/Kg	06/24/16	06/25/16	ZZ	
Allyl Chloride	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Benzene	**0.47 J**	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	J
Bromobenzene	ND	1.14	0.342	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Bromochloromethane	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Bromodichloromethane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Bromoform	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Bromomethane	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorodibromomethane	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroethane	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroform	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Chloromethane	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,3-dichloropropene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Dibromomethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 10:54	**Site:**			
Sample #:	**371006-097**	**Client Sample #:**	SS60-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Ethylbenzene	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.14	0.4788	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	1.14	0.4332	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Isopropylbenzene	ND	1.14	0.1938	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
m and p-Xylene	ND	1.14	0.2394	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Methylene chloride	ND	1.14	0.2508	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Naphthalene	ND	1.14	0.3192	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
N-butylbenzene	ND	1.14	0.1824	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
N-propylbenzene	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
o-Xylene	ND	1.14	0.1482	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Sec-butylbenzene	ND	1.14	0.3876	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Styrene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.14	10.032	11.4	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.14	0.2166	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-butylbenzene	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Tetrachloroethene	ND	1.14	0.228	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Toluene	**0.32 J**	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	J
trans-1,2-dichloroethene	ND	1.14	0.2622	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	1.14	0.1596	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.14	0.4332	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Trichloroethene	ND	1.14	0.4446	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	1.14	0.285	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Vinyl Chloride	ND	1.14	0.2052	5.7	ug/Kg	06/24/16	06/25/16	ZZ	
Xylenes (Total)	ND	1.14	0.513	5.7	ug/Kg	06/24/16	06/25/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*123*	*70-145*	
4-Bromofluorobenzene (SUR)	*115*	*70-145*	
Dibromodifluoromethane (SUR)	*112*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 11:12	**Site:**			
Sample #:	**371006-098**	**Client Sample #:**	SS61-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 11:14	**Site:**			
Sample #:	**371006-099**	**Client Sample #:**	SS61-5.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 11:16	**Site:**			
Sample #:	**371006-100**	**Client Sample #:**	SS61-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168654
TPH Gasoline	ND	1.22	0.19398	3.66	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*			*Limits*	*Notes*				
4-Bromofluorobenzene (SUR)	*90*			*60-140*					
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168612
1,1,1,2-Tetrachloroethane	ND	1.11	0.2664	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	1.11	0.1665	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.11	0.3219	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	1.11	0.2442	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.11	0.8214	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.11	0.3663	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.11	0.3108	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	1.11	0.1332	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	1.11	0.1554	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	1.11	0.3774	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	1.11	0.2664	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
2-Butanone (MEK)	ND	1.11	0.7992	111	ug/Kg	06/24/16	06/25/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.11	0.333	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
2-Chlorotoluene	ND	1.11	0.2775	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
4-Chlorotoluene	ND	1.11	0.2442	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	1.11	0.2997	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.11	0.1887	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Acetone	ND	1.11	11.1	111	ug/Kg	06/24/16	06/25/16	ZZ	
Allyl Chloride	ND	1.11	0.1554	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Benzene	**0.51 J**	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	J
Bromobenzene	ND	1.11	0.333	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Bromochloromethane	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Bromodichloromethane	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Bromoform	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Bromomethane	ND	1.11	0.2442	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorobenzene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorodibromomethane	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroethane	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroform	ND	1.11	0.1887	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chloromethane	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,3-dichloropropene	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Dibromomethane	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 11:16	**Site:**			
Sample #:	**371006-100**	**Client Sample #:**	SS61-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Ethylbenzene	ND	1.11	0.2775	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.11	0.4662	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	1.11	0.4218	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Isopropylbenzene	ND	1.11	0.1887	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
m and p-Xylene	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Methylene chloride	ND	1.11	0.2442	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.11	0.2775	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Naphthalene	ND	1.11	0.3108	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
N-butylbenzene	ND	1.11	0.1776	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
N-propylbenzene	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
o-Xylene	ND	1.11	0.1443	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Sec-butylbenzene	ND	1.11	0.3774	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Styrene	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.11	9.768	11.1	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-butylbenzene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Tetrachloroethene	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Toluene	**0.26 J**	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	J
trans-1,2-dichloroethene	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	1.11	0.1554	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.11	0.4218	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Trichloroethene	ND	1.11	0.4329	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	1.11	0.2775	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Vinyl Chloride	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Xylenes (Total)	ND	1.11	0.4995	5.55	ug/Kg	06/24/16	06/25/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*125*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromodifluoromethane (SUR)	*110*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 11:40	**Site:**			
Sample #:	**371006-101**	**Client Sample #:**	SS53-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 11:41	**Site:**			
Sample #:	**371006-102**	**Client Sample #:**	SS53-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 11:42	Site:	
Sample #: 371006-103	Client Sample #: SS53-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 12:30	Site:	
Sample #: 371006-104	Client Sample #: SS71-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168676		
Lead	**62.2**	1	0.32	0.5	mg/Kg	06/27/16	06/29/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**1.725 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 12:31	Site:	
Sample #: 371006-105	Client Sample #: SS71-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 12:32	Site:	
Sample #: 371006-106	Client Sample #: SS71-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 12:39	Site:	
Sample #: 371006-107	Client Sample #: SS54-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**84.7**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**2.72 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 12:40	Site:	
Sample #: 371006-108	Client Sample #: SS54-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/23/2016 12:41	Site:	
Sample #: 371006-109	Client Sample #: SS54-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 12:39 **Site:**
Sample #: 371006-110 **Client Sample #:** SS72-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**6.29**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**1.125 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 12:40 **Site:**
Sample #: 371006-111 **Client Sample #:** SS72-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 12:42 **Site:**
Sample #: 371006-112 **Client Sample #:** SS72-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 12:47 **Site:**
Sample #: 371006-113 **Client Sample #:** SS69-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**31.2**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**1.460 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 12:48 **Site:**
Sample #: 371006-114 **Client Sample #:** SS69-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 12:49 **Site:**
Sample #: 371006-115 **Client Sample #:** SS69-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 12:51	**Site:**			
Sample #:	**371006-116**	**Client Sample #:**	SS56-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**11.4**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**1.702 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID: QC1168654		
TPH Gasoline	ND	1.06	0.16854	3.18	mg/Kg		06/26/16	TT	
Surrogate	*% Recovery*		*Limits*		*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID: QC1168612		
1,1,1,2-Tetrachloroethane	ND	1.11	0.2664	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	1.11	0.1665	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.11	0.3219	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	1.11	0.2442	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.11	0.8214	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.11	0.3663	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.11	0.3108	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	1.11	0.1332	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	1.11	0.1554	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	1.11	0.3774	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	1.11	0.2664	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
2-Butanone (MEK)	**0.83 J**	1.11	0.7992	111	ug/Kg	06/24/16	06/25/16	ZZ	J
2-Chloroethyl Vinyl Ether	ND	1.11	0.333	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
2-Chlorotoluene	ND	1.11	0.2775	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
4-Chlorotoluene	ND	1.11	0.2442	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	1.11	0.2997	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.11	0.1887	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Acetone	**16 J**	1.11	11.1	111	ug/Kg	06/24/16	06/25/16	ZZ	J
Allyl Chloride	ND	1.11	0.1554	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Benzene	**1.5 J**	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	J
Bromobenzene	ND	1.11	0.333	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Bromochloromethane	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Bromodichloromethane	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Bromoform	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Bromomethane	ND	1.11	0.2442	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorobenzene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chlorodibromomethane	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 12:51	**Site:**			
Sample #:	**371006-116**	**Client Sample #:**	SS56-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Chloroethane	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chloroform	ND	1.11	0.1887	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Chloromethane	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,3-dichloropropene	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Dibromomethane	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Dichlorodifluoromethane	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Ethylbenzene	ND	1.11	0.2775	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.11	0.4662	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	1.11	0.4218	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Isopropylbenzene	ND	1.11	0.1887	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
m and p-Xylene	**0.25 J**	1.11	0.2331	5.55	ug/Kg	06/24/16	06/25/16	ZZ	J
Methylene chloride	ND	1.11	0.2442	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.11	0.2775	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Naphthalene	ND	1.11	0.3108	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
N-butylbenzene	ND	1.11	0.1776	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
N-propylbenzene	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
o-Xylene	ND	1.11	0.1443	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Sec-butylbenzene	ND	1.11	0.3774	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Styrene	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.11	9.768	11.1	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.11	0.2109	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Tert-butylbenzene	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Tetrachloroethene	ND	1.11	0.222	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Toluene	**0.64 J**	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	J
trans-1,2-dichloroethene	ND	1.11	0.2553	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	1.11	0.1554	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.11	0.4218	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Trichloroethene	ND	1.11	0.4329	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	1.11	0.2775	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Vinyl Chloride	ND	1.11	0.1998	5.55	ug/Kg	06/24/16	06/25/16	ZZ	
Xylenes (Total)	ND	1.11	0.4995	5.55	ug/Kg	06/24/16	06/25/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*123*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromodifluoromethane (SUR)	*111*	*70-145*	
Toluene-d8 (SUR)	*99*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 12:53	**Site:**			
Sample #:	**371006-117**	**Client Sample #:**	SS56-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 12:54	Site:			
Sample #:	371006-118	Client Sample #:	SS56-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 12:57	Site:			
Sample #:	371006-119	Client Sample #:	SS70-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	122	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	5.28	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 12:59	Site:			
Sample #:	371006-120	Client Sample #:	SS70-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:03	Site:			
Sample #:	371006-121	Client Sample #:	SS70-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:10	Site:			
Sample #:	371006-122	Client Sample #:	SS77-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	187	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	3.46	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:10	Site:			
Sample #:	371006-123	Client Sample #:	SS77-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	200	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	3.02	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:11	Site:			
Sample #:	371006-124	Client Sample #:	SS77-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:12	Site:			
Sample #:	371006-125	Client Sample #:	SS77-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:16	Site:			
Sample #:	371006-126	Client Sample #:	SS80-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**129**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**5.09**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:16	Site:			
Sample #:	371006-127	Client Sample #:	SS80-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**40.6**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**3.60**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:17	Site:			
Sample #:	371006-128	Client Sample #:	SS80-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:18	Site:			
Sample #:	371006-129	Client Sample #:	SS80-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:34	Site:			
Sample #:	371006-130	Client Sample #:	SS79-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**64.5**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168706		
Arsenic	**2.17 J**	10	0.2	3	mg/Kg	06/27/16	07/05/16	KLN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 13:34 **Site:**
Sample #: 371006-131 **Client Sample #:** SS79-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**86.0**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**2.52 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	J

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 13:35 **Site:**
Sample #: 371006-132 **Client Sample #:** SS79-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 13:36 **Site:**
Sample #: 371006-133 **Client Sample #:** SS79-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 13:30 **Site:**
Sample #: 371006-134 **Client Sample #:** SS76-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**86.2**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**3.83**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 13:31 **Site:**
Sample #: 371006-135 **Client Sample #:** SS76-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 13:32 **Site:**
Sample #: 371006-136 **Client Sample #:** SS76-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/23/2016 13:38 **Site:**
Sample #: 371006-137 **Client Sample #:** SS73-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**87.9**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**5.98**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:40	Site:			
Sample #:	371006-138	Client Sample #:	SS73-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:41	Site:			
Sample #:	371006-139	Client Sample #:	SS73-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:45	Site:			
Sample #:	371006-140	Client Sample #:	SS78-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**2.12**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**1.156 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:45	Site:			
Sample #:	371006-141	Client Sample #:	SS78-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**62.2**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**1.928 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:46	Site:			
Sample #:	371006-142	Client Sample #:	SS78-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:47	Site:			
Sample #:	371006-143	Client Sample #:	SS78-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:45	Site:			
Sample #:	371006-144	Client Sample #:	SS74-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**172**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**4.68**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 13:46	**Site:**			
Sample #:	**371006-145**	**Client Sample #:**	SS74-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 13:48	**Site:**			
Sample #:	**371006-146**	**Client Sample #:**	SS74-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 13:55	**Site:**			
Sample #:	**371006-147**	**Client Sample #:**	SS85-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**36.8**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**4.82**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 13:56	**Site:**			
Sample #:	**371006-148**	**Client Sample #:**	SS85-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 13:57	**Site:**			
Sample #:	**371006-149**	**Client Sample #:**	SS85-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 14:01	**Site:**			
Sample #:	**371006-150**	**Client Sample #:**	SS88-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**88.6**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**13.2**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 14:02	**Site:**			
Sample #:	**371006-151**	**Client Sample #:**	SS88-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 14:03	Site:			
Sample #:	371006-152	Client Sample #:	SS88-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:55	Site:			
Sample #:	371006-153	Client Sample #:	SS75-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**30.3**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**2.28 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:56	Site:			
Sample #:	371006-154	Client Sample #:	SS75-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 13:57	Site:			
Sample #:	371006-155	Client Sample #:	SS75-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 14:27	Site:			
Sample #:	371006-156	Client Sample #:	SS86-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168675		
Lead	**42.1**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**1.913 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 14:28	Site:			
Sample #:	371006-157	Client Sample #:	SS86-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016 14:29	Site:			
Sample #:	371006-158	Client Sample #:	SS86-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 14:11	**Site:**			
Sample #:	**371006-159**	**Client Sample #:**	SS87-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168682		
Lead	**131**	1	0.32	0.5	mg/Kg	06/27/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**3.61**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 14:12	**Site:**			
Sample #:	**371006-160**	**Client Sample #:**	SS87-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016 14:13	**Site:**			
Sample #:	**371006-161**	**Client Sample #:**	SS87-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-162**	**Client Sample #:**	EQBL623 HA	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3010A							QCBatchID:	QC1168717	
Antimony	ND	1	0.016	0.02	mg/L	06/28/16	07/01/16	JN	
Arsenic	**0.007 J**	1	0.004	0.01	mg/L	06/28/16	07/01/16	JN	
Barium	ND	1	0.001	0.01	mg/L	06/28/16	07/01/16	JN	
Beryllium	ND	1	0.001	0.005	mg/L	06/28/16	07/01/16	JN	
Cadmium	ND	1	0.001	0.005	mg/L	06/28/16	07/01/16	JN	
Chromium	ND	1	0.002	0.01	mg/L	06/28/16	07/01/16	JN	
Cobalt	ND	1	0.001	0.005	mg/L	06/28/16	07/01/16	JN	
Copper	**0.007 J**	1	0.001	0.01	mg/L	06/28/16	07/01/16	JN	
Lead	ND	1	0.004	0.005	mg/L	06/28/16	07/01/16	JN	
Molybdenum	**0.004 J**	1	0.002	0.01	mg/L	06/28/16	07/01/16	JN	
Nickel	ND	1	0.001	0.02	mg/L	06/28/16	07/01/16	JN	
Selenium	ND	1	0.004	0.01	mg/L	06/28/16	07/01/16	JN	
Silver	ND	1	0.001	0.005	mg/L	06/28/16	07/01/16	JN	
Thallium	**0.005**	1	0.003	0.005	mg/L	06/28/16	07/01/16	JN	
Vanadium	ND	1	0.003	0.005	mg/L	06/28/16	07/01/16	JN	
Zinc	**0.009 J**	1	0.002	0.02	mg/L	06/28/16	07/01/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3010A							QCBatchID:	QC1168702	
Arsenic	**0.2 J**	1	0.13	2	ug/L	06/24/16	06/28/16	KLN	J
Method: EPA 7470A *NELAC* Prep Method: Method							QCBatchID:	QC1168685	
Mercury	**0.19 J**	1	0.05	0.4	ug/L	06/29/16	07/01/16	MH	
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5030B							QCBatchID:	QC1168635	
TPH Gasoline	ND	1	6.6	50	ug/L		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*94*	*60-140*	

Method: EPA 8081A *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC* Prep Method: EPA 5030B							QCBatchID:	QC1168628	
1,1,1,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
1,1,1-Trichloroethane	ND	1	0.38	5	ug/L	06/24/16	06/25/16	LZ	
1,1,2,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
1,1,2-Trichloroethane	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.29	5	ug/L	06/24/16	06/25/16	LZ	
1,1-Dichloroethane	ND	1	0.32	5	ug/L	06/24/16	06/25/16	LZ	
1,1-Dichloroethene	ND	1	0.3	5	ug/L	06/24/16	06/25/16	LZ	
1,1-Dichloropropene	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
1,2,3-Trichlorobenzene	ND	1	0.28	5	ug/L	06/24/16	06/25/16	LZ	
1,2,3-Trichloropropane	ND	1	0.16	5	ug/L	06/24/16	06/25/16	LZ	
1,2,4-Trichlorobenzene	ND	1	0.27	5	ug/L	06/24/16	06/25/16	LZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dibromo-3-chloropropane	ND	1	0.12	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dibromoethane	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dichlorobenzene	ND	1	0.26	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dichloroethane	ND	1	0.2	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dichloropropane	ND	1	0.36	5	ug/L	06/24/16	06/25/16	LZ	
1,3,5-Trimethylbenzene	ND	1	0.24	5	ug/L	06/24/16	06/25/16	LZ	
1,3-Dichlorobenzene	ND	1	0.34	5	ug/L	06/24/16	06/25/16	LZ	

Matrix:	Water	Client:	Alta Environmental	Collector:	Client
Sampled:	06/23/2016	Site:			
Sample #:	371006-162	Client Sample #:	EQBL623 HA	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
1,3-Dichloropropane	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
1,4-Dichlorobenzene	ND	1	0.43	5	ug/L	06/24/16	06/25/16	LZ	
2,2-Dichloropropane	ND	1	0.32	5	ug/L	06/24/16	06/25/16	LZ	
2-Butanone (MEK)	ND	1	0.78	100	ug/L	06/24/16	06/25/16	LZ	
2-Chlorotoluene	ND	1	0.33	5	ug/L	06/24/16	06/25/16	LZ	
4-Chlorotoluene	ND	1	0.31	5	ug/L	06/24/16	06/25/16	LZ	
4-Isopropyltoluene	ND	1	0.32	5	ug/L	06/24/16	06/25/16	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.12	5	ug/L	06/24/16	06/25/16	LZ	
Acetone	ND	1	10	100	ug/L	06/24/16	06/25/16	LZ	
Allyl Chloride	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
Benzene	ND	1	0.18	1	ug/L	06/24/16	06/25/16	LZ	
Bromobenzene	ND	1	0.53	5	ug/L	06/24/16	06/25/16	LZ	
Bromochloromethane	ND	1	0.17	5	ug/L	06/24/16	06/25/16	LZ	
Bromodichloromethane	ND	1	0.31	5	ug/L	06/24/16	06/25/16	LZ	
Bromoform	ND	1	0.13	5	ug/L	06/24/16	06/25/16	LZ	
Bromomethane	ND	1	0.68	5	ug/L	06/24/16	06/25/16	LZ	
Carbon Tetrachloride	ND	1	0.27	5	ug/L	06/24/16	06/25/16	LZ	
Chlorobenzene	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
Chlorodibromomethane	ND	1	0.21	5	ug/L	06/24/16	06/25/16	LZ	
Chloroethane	ND	1	0.45	5	ug/L	06/24/16	06/25/16	LZ	
Chloroform	ND	1	0.18	5	ug/L	06/24/16	06/25/16	LZ	
Chloromethane	ND	1	0.27	5	ug/L	06/24/16	06/25/16	LZ	
cis-1,2-Dichloroethene	ND	1	0.27	5	ug/L	06/24/16	06/25/16	LZ	
cis-1,3-dichloropropene	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
cis-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/24/16	06/25/16	LZ	
Dibromomethane	ND	1	0.23	5	ug/L	06/24/16	06/25/16	LZ	
Dichlorodifluoromethane	ND	1	0.33	5	ug/L	06/24/16	06/25/16	LZ	
Di-isopropyl ether (DIPE)	ND	1	0.17	1	ug/L	06/24/16	06/25/16	LZ	
Ethylbenzene	ND	1	0.21	5	ug/L	06/24/16	06/25/16	LZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	06/24/16	06/25/16	LZ	
Hexachlorobutadiene	ND	1	0.51	5	ug/L	06/24/16	06/25/16	LZ	
Isopropylbenzene	ND	1	0.24	5	ug/L	06/24/16	06/25/16	LZ	
m and p-Xylene	ND	1	0.45	5	ug/L	06/24/16	06/25/16	LZ	
Methylene chloride	ND	1	0.16	5	ug/L	06/24/16	06/25/16	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	06/24/16	06/25/16	LZ	
Naphthalene	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
N-butylbenzene	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
N-propylbenzene	ND	1	0.31	5	ug/L	06/24/16	06/25/16	LZ	
o-Xylene	ND	1	0.29	5	ug/L	06/24/16	06/25/16	LZ	
Sec-butylbenzene	ND	1	0.32	5	ug/L	06/24/16	06/25/16	LZ	
Styrene	ND	1	0.22	5	ug/L	06/24/16	06/25/16	LZ	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	06/24/16	06/25/16	LZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
Tert-butylbenzene	ND	1	0.4	5	ug/L	06/24/16	06/25/16	LZ	
Tetrachloroethene	ND	1	0.8	5	ug/L	06/24/16	06/25/16	LZ	
Toluene	**0.95 J**	1	0.24	5	ug/L	06/24/16	06/25/16	LZ	J
trans-1,2-dichloroethene	ND	1	0.33	5	ug/L	06/24/16	06/25/16	LZ	
trans-1,3-dichloropropene	ND	1	0.23	5	ug/L	06/24/16	06/25/16	LZ	
trans-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/24/16	06/25/16	LZ	
Trichloroethene	ND	1	0.39	5	ug/L	06/24/16	06/25/16	LZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
Vinyl Chloride	ND	1	0.18	5	ug/L	06/24/16	06/25/16	LZ	
Xylenes (Total)	ND	1	0.45	5	ug/L	06/24/16	06/25/16	LZ	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-162**	**Client Sample #:**	EQBL623 HA	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*101*	*70-145*	
4-Bromofluorobenzene (SUR)	*115*	*70-145*	
Dibromodifluoromethane (SUR)	*89*	*70-145*	
Toluene-d8 (SUR)	*106*	*70-145*	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-163**	**Client Sample #:**	EQBL623 GP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3010A							QCBatchID:	QC1168717	
Lead	ND	1	0.004	0.005	mg/L	06/28/16	07/01/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3010A							QCBatchID:	QC1168702	
Arsenic	ND	1	0.13	2	ug/L	06/24/16	06/28/16	KLN	
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5030B							QCBatchID:	QC1168635	
TPH Gasoline	ND	1	6.6	50	ug/L		06/24/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*93*	*60-140*	

Method: EPA 8081A *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC* Prep Method: EPA 5030B							QCBatchID:	QC1168628	
1,1,1,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
1,1,1-Trichloroethane	ND	1	0.38	5	ug/L	06/24/16	06/25/16	LZ	
1,1,2,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
1,1,2-Trichloroethane	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.29	5	ug/L	06/24/16	06/25/16	LZ	
1,1-Dichloroethane	ND	1	0.32	5	ug/L	06/24/16	06/25/16	LZ	
1,1-Dichloroethene	ND	1	0.3	5	ug/L	06/24/16	06/25/16	LZ	
1,1-Dichloropropene	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
1,2,3-Trichlorobenzene	ND	1	0.28	5	ug/L	06/24/16	06/25/16	LZ	
1,2,3-Trichloropropane	ND	1	0.16	5	ug/L	06/24/16	06/25/16	LZ	
1,2,4-Trichlorobenzene	ND	1	0.27	5	ug/L	06/24/16	06/25/16	LZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dibromo-3-chloropropane	ND	1	0.12	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dibromoethane	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dichlorobenzene	ND	1	0.26	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dichloroethane	ND	1	0.2	5	ug/L	06/24/16	06/25/16	LZ	
1,2-Dichloropropane	ND	1	0.36	5	ug/L	06/24/16	06/25/16	LZ	
1,3,5-Trimethylbenzene	ND	1	0.24	5	ug/L	06/24/16	06/25/16	LZ	
1,3-Dichlorobenzene	ND	1	0.34	5	ug/L	06/24/16	06/25/16	LZ	
1,3-Dichloropropane	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
1,4-Dichlorobenzene	ND	1	0.43	5	ug/L	06/24/16	06/25/16	LZ	
2,2-Dichloropropane	ND	1	0.32	5	ug/L	06/24/16	06/25/16	LZ	
2-Butanone (MEK)	ND	1	0.78	100	ug/L	06/24/16	06/25/16	LZ	
2-Chlorotoluene	ND	1	0.33	5	ug/L	06/24/16	06/25/16	LZ	
4-Chlorotoluene	ND	1	0.31	5	ug/L	06/24/16	06/25/16	LZ	
4-Isopropyltoluene	ND	1	0.32	5	ug/L	06/24/16	06/25/16	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.12	5	ug/L	06/24/16	06/25/16	LZ	
Acetone	ND	1	10	100	ug/L	06/24/16	06/25/16	LZ	
Allyl Chloride	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
Benzene	ND	1	0.18	1	ug/L	06/24/16	06/25/16	LZ	
Bromobenzene	ND	1	0.53	5	ug/L	06/24/16	06/25/16	LZ	
Bromochloromethane	ND	1	0.17	5	ug/L	06/24/16	06/25/16	LZ	
Bromodichloromethane	ND	1	0.31	5	ug/L	06/24/16	06/25/16	LZ	
Bromoform	ND	1	0.13	5	ug/L	06/24/16	06/25/16	LZ	
Bromomethane	ND	1	0.68	5	ug/L	06/24/16	06/25/16	LZ	
Carbon Tetrachloride	ND	1	0.27	5	ug/L	06/24/16	06/25/16	LZ	
Chlorobenzene	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-163**	**Client Sample #:**	EQBL623 GP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Chlorodibromomethane	ND	1	0.21	5	ug/L	06/24/16	06/25/16	LZ	
Chloroethane	ND	1	0.45	5	ug/L	06/24/16	06/25/16	LZ	
Chloroform	ND	1	0.18	5	ug/L	06/24/16	06/25/16	LZ	
Chloromethane	ND	1	0.27	5	ug/L	06/24/16	06/25/16	LZ	
cis-1,2-Dichloroethene	ND	1	0.27	5	ug/L	06/24/16	06/25/16	LZ	
cis-1,3-dichloropropene	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
cis-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/24/16	06/25/16	LZ	
Dibromomethane	ND	1	0.23	5	ug/L	06/24/16	06/25/16	LZ	
Dichlorodifluoromethane	ND	1	0.33	5	ug/L	06/24/16	06/25/16	LZ	
Di-isopropyl ether (DIPE)	ND	1	0.17	1	ug/L	06/24/16	06/25/16	LZ	
Ethylbenzene	ND	1	0.21	5	ug/L	06/24/16	06/25/16	LZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	06/24/16	06/25/16	LZ	
Hexachlorobutadiene	ND	1	0.51	5	ug/L	06/24/16	06/25/16	LZ	
Isopropylbenzene	ND	1	0.24	5	ug/L	06/24/16	06/25/16	LZ	
m and p-Xylene	ND	1	0.45	5	ug/L	06/24/16	06/25/16	LZ	
Methylene chloride	ND	1	0.16	5	ug/L	06/24/16	06/25/16	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	06/24/16	06/25/16	LZ	
Naphthalene	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
N-butylbenzene	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
N-propylbenzene	ND	1	0.31	5	ug/L	06/24/16	06/25/16	LZ	
o-Xylene	ND	1	0.29	5	ug/L	06/24/16	06/25/16	LZ	
Sec-butylbenzene	ND	1	0.32	5	ug/L	06/24/16	06/25/16	LZ	
Styrene	ND	1	0.22	5	ug/L	06/24/16	06/25/16	LZ	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	06/24/16	06/25/16	LZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/L	06/24/16	06/25/16	LZ	
Tert-butylbenzene	ND	1	0.4	5	ug/L	06/24/16	06/25/16	LZ	
Tetrachloroethene	ND	1	0.8	5	ug/L	06/24/16	06/25/16	LZ	
Toluene	**1.0 J**	1	0.24	5	ug/L	06/24/16	06/25/16	LZ	J
trans-1,2-dichloroethene	ND	1	0.33	5	ug/L	06/24/16	06/25/16	LZ	
trans-1,3-dichloropropene	ND	1	0.23	5	ug/L	06/24/16	06/25/16	LZ	
trans-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/24/16	06/25/16	LZ	
Trichloroethene	ND	1	0.39	5	ug/L	06/24/16	06/25/16	LZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/L	06/24/16	06/25/16	LZ	
Vinyl Chloride	ND	1	0.18	5	ug/L	06/24/16	06/25/16	LZ	
Xylenes (Total)	ND	1	0.45	5	ug/L	06/24/16	06/25/16	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*106*	*70-145*	
4-Bromofluorobenzene (SUR)	*111*	*70-145*	
Dibromodifluoromethane (SUR)	*93*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-164**	**Client Sample #:**	COMP 2	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-165**	**Client Sample #:**	COMP 3	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-166**	**Client Sample #:**	COMP 4	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-167**	**Client Sample #:**	COMP 5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-168**	**Client Sample #:**	COMP 13	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-169**	**Client Sample #:**	COMP 14	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-170**	**Client Sample #:**	COMP 15	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-171**	**Client Sample #:**	COMP 16	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-172**	**Client Sample #:**	COMP 17	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-173**	**Client Sample #:**	COMP 19	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-174**	**Client Sample #:**	COMP 20	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-175**	**Client Sample #:**	COMP 22	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/23/2016	**Site:**			
Sample #:	**371006-176**	**Client Sample #:**	COMP 17 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

QCBatchID: QC1168612	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/24/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168612MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.24	5	
1,1,1-Trichloroethane	ND	ug/Kg	0.15	5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.29	5	
1,1,2-Trichloroethane	ND	ug/Kg	0.22	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg	0.74	5	
1,1-Dichloroethane	ND	ug/Kg	0.23	5	
1,1-Dichloroethene	ND	ug/Kg	0.18	5	
1,1-Dichloropropene	ND	ug/Kg	0.21	5	
1,2,3-Trichlorobenzene	ND	ug/Kg	0.18	5	
1,2,3-Trichloropropane	ND	ug/Kg	0.2	5	
1,2,4-Trichlorobenzene	ND	ug/Kg	0.33	5	
1,2,4-Trimethylbenzene	ND	ug/Kg	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg	0.2	5	
1,2-Dibromoethane	ND	ug/Kg	0.12	5	
1,2-Dichlorobenzene	ND	ug/Kg	0.18	5	
1,2-Dichloroethane	ND	ug/Kg	0.14	5	
1,2-Dichloropropane	ND	ug/Kg	0.34	5	
1,3,5-Trimethylbenzene	ND	ug/Kg	0.23	5	
1,3-Dichlorobenzene	ND	ug/Kg	0.21	5	
1,3-Dichloropropane	ND	ug/Kg	0.19	5	
1,4-Dichlorobenzene	ND	ug/Kg	0.24	5	
2,2-Dichloropropane	ND	ug/Kg	0.19	5	
2-Butanone (MEK)	ND	ug/Kg	0.72	100	
2-Chloroethyl Vinyl Ether	ND	ug/Kg	0.3	5	
2-Chlorotoluene	ND	ug/Kg	0.25	5	
4-Chlorotoluene	ND	ug/Kg	0.22	5	
4-Isopropyltoluene	ND	ug/Kg	0.27	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	0.17	5	
Acetone	ND	ug/Kg	10	100	
Allyl Chloride	ND	ug/Kg	0.14	5	
Benzene	ND	ug/Kg	0.18	5	
Bromobenzene	ND	ug/Kg	0.3	5	
Bromochloromethane	ND	ug/Kg	0.18	5	
Bromodichloromethane	ND	ug/Kg	0.2	5	
Bromoform	ND	ug/Kg	0.19	5	
Bromomethane	ND	ug/Kg	0.22	5	
Carbon Tetrachloride	ND	ug/Kg	0.18	5	
Chlorobenzene	ND	ug/Kg	0.18	5	
Chlorodibromomethane	ND	ug/Kg	0.19	5	
Chloroethane	ND	ug/Kg	0.2	5	
Chloroform	ND	ug/Kg	0.17	5	
Chloromethane	ND	ug/Kg	0.21	5	
cis-1,2-Dichloroethene	ND	ug/Kg	0.2	5	
cis-1,3-dichloropropene	ND	ug/Kg	0.2	5	
cis-1,4-dichloro-2-butene	ND	ug/Kg	0.2	5	
Dibromomethane	ND	ug/Kg	0.23	5	
Dichlorodifluoromethane	ND	ug/Kg	0.23	5	
Di-isopropyl ether (DIPE)	ND	ug/Kg	0.21	5	
Ethylbenzene	ND	ug/Kg	0.25	5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg	0.42	5	
Hexachlorobutadiene	ND	ug/Kg	0.38	5	

QCBatchID: QC1168612	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/24/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168612MB1					
Isopropylbenzene	ND	ug/Kg	0.17	5	
m and p-Xylene	ND	ug/Kg	0.21	5	
Methylene chloride	ND	ug/Kg	0.22	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg	0.25	5	
Naphthalene	ND	ug/Kg	0.28	5	
N-butylbenzene	ND	ug/Kg	0.16	5	
N-propylbenzene	ND	ug/Kg	0.19	5	
o-Xylene	ND	ug/Kg	0.13	5	
Sec-butylbenzene	ND	ug/Kg	0.34	5	
Styrene	ND	ug/Kg	0.23	5	
t-Butyl alcohol (TBA)	ND	ug/Kg	8.8	10	
Tert-amylmethylether (TAME)	ND	ug/Kg	0.19	5	
Tert-butylbenzene	ND	ug/Kg	0.18	5	
Tetrachloroethene	ND	ug/Kg	0.2	5	
Toluene	ND	ug/Kg	0.23	5	
trans-1,2-dichloroethene	ND	ug/Kg	0.23	5	
trans-1,3-dichloropropene	ND	ug/Kg	0.14	5	
trans-1,4-dichloro-2-butene	ND	ug/Kg	0.38	5	
Trichloroethene	ND	ug/Kg	0.39	5	
Trichlorofluoromethane	ND	ug/Kg	0.25	5	
Vinyl Chloride	ND	ug/Kg	0.18	5	
Xylenes (Total)	ND	ug/Kg	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168612LCS1, QC1168612LCSD1											
1,1-Dichloroethene	50	50	49	49	ug/Kg	98	98	0	59-172	22	
Benzene	50	50	51	50	ug/Kg	102	100	2	62-137	24	
Chlorobenzene	50	50	43	48	ug/Kg	86	96	11	60-133	24	
Methyl-t-butyl Ether (MTBE)	50	50	49	48	ug/Kg	98	96	2	62-137	21	
Toluene	50	50	44	47	ug/Kg	88	94	7	59-139	21	
Trichloroethene	50	50	40	44	ug/Kg	80	88	10	66-142	21	

QCBatchID: QC1168628	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 06/24/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168628MB1					
1,1,1,2-Tetrachloroethane	ND	ug/L	0.25	5	
1,1,1-Trichloroethane	ND	ug/L	0.38	5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.25	5	
1,1,2-Trichloroethane	ND	ug/L	0.25	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.29	5	
1,1-Dichloroethane	ND	ug/L	0.32	5	
1,1-Dichloroethene	ND	ug/L	0.3	5	
1,1-Dichloropropene	ND	ug/L	0.25	5	
1,2,3-Trichlorobenzene	ND	ug/L	0.28	5	
1,2,3-Trichloropropane	ND	ug/L	0.16	5	
1,2,4-Trichlorobenzene	ND	ug/L	0.27	5	
1,2,4-Trimethylbenzene	ND	ug/L	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.12	5	
1,2-Dibromoethane	ND	ug/L	0.19	5	
1,2-Dichlorobenzene	ND	ug/L	0.26	5	
1,2-Dichloroethane	ND	ug/L	0.2	5	
1,2-Dichloropropane	ND	ug/L	0.36	5	
1,3,5-Trimethylbenzene	ND	ug/L	0.24	5	
1,3-Dichlorobenzene	ND	ug/L	0.34	5	
1,3-Dichloropropane	ND	ug/L	0.19	5	
1,4-Dichlorobenzene	ND	ug/L	0.43	5	
2,2-Dichloropropane	ND	ug/L	0.32	5	
2-Butanone (MEK)	ND	ug/L	0.78	100	
2-Chloroethyl Vinyl Ether	ND	ug/L	0.23	10	
2-Chlorotoluene	ND	ug/L	0.33	5	
4-Chlorotoluene	ND	ug/L	0.31	5	
4-Isopropyltoluene	ND	ug/L	0.32	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	0.12	5	
Acetone	ND	ug/L	10	100	
Allyl Chloride	ND	ug/L	0.19	5	
Benzene	ND	ug/L	0.18	1	
Bromobenzene	ND	ug/L	0.53	5	
Bromochloromethane	ND	ug/L	0.17	5	
Bromodichloromethane	ND	ug/L	0.31	5	
Bromoform	ND	ug/L	0.13	5	
Bromomethane	ND	ug/L	0.68	5	
Carbon Tetrachloride	ND	ug/L	0.27	5	
Chlorobenzene	ND	ug/L	0.19	5	
Chlorodibromomethane	ND	ug/L	0.21	5	
Chloroethane	ND	ug/L	0.45	5	
Chloroform	ND	ug/L	0.18	5	
Chloromethane	ND	ug/L	0.27	5	
cis-1,2-Dichloroethene	ND	ug/L	0.27	5	
cis-1,3-dichloropropene	ND	ug/L	0.25	5	
cis-1,4-dichloro-2-butene	ND	ug/L	0.17	5	
Dibromomethane	ND	ug/L	0.23	5	
Dichlorodifluoromethane	ND	ug/L	0.33	5	
Ethylbenzene	ND	ug/L	0.21	5	
Hexachlorobutadiene	ND	ug/L	0.51	5	
Isopropylbenzene	ND	ug/L	0.24	5	
m and p-Xylene	ND	ug/L	0.45	5	

QCBatchID: QC1168628	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 06/24/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168628MB1					
Methylene chloride	ND	ug/L	0.16	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L	0.19	1	
Naphthalene	ND	ug/L	0.25	5	
N-butylbenzene	ND	ug/L	0.25	5	
N-propylbenzene	ND	ug/L	0.31	5	
o-Xylene	ND	ug/L	0.29	5	
Sec-butylbenzene	ND	ug/L	0.32	5	
Styrene	ND	ug/L	0.22	5	
t-Butyl alcohol (TBA)	ND	ug/L	5.2	10	
Tert-butylbenzene	ND	ug/L	0.4	5	
Tetrachloroethene	ND	ug/L	0.18	5	
Toluene	ND	ug/L	0.24	5	
trans-1,2-dichloroethene	ND	ug/L	0.33	5	
trans-1,3-dichloropropene	ND	ug/L	0.23	5	
trans-1,4-dichloro-2-butene	ND	ug/L	0.17	5	
Trichloroethene	ND	ug/L	0.39	5	
Trichlorofluoromethane	ND	ug/L	0.25	5	
Vinyl Chloride	ND	ug/L	0.18	5	
Xylenes (Total)	ND	ug/L	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168628LCS1											
1,1-Dichloroethene	50		47		ug/L	94			59-172		
Benzene	50		49		ug/L	98			62-137		
Chlorobenzene	50		50		ug/L	100			60-133		
Methyl-t-butyl Ether (MTBE)	50		39		ug/L	78			62-137		
Toluene	50		57		ug/L	114			59-139		
Trichloroethene	50		56		ug/L	112			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168628MS1, QC1168628MSD1												**Source: 370988-001**
1,1-Dichloroethene	ND	50	50	49	51	ug/L	98	102	4.0	59-172	22	
Benzene	ND	50	50	47	49	ug/L	94	98	4.2	62-137	24	
Chlorobenzene	ND	50	50	52	50	ug/L	104	100	3.9	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	46	42	ug/L	92	84	9.1	62-137	21	
Toluene	ND	50	50	56	55	ug/L	112	110	1.8	59-139	21	
Trichloroethene	ND	50	50	53	53	ug/L	106	106	0.0	66-142	21	

QCBatchID: QC1168635	Analyst: ttran	Method: EPA 8015B
Matrix: Water	Analyzed: 06/24/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168635MB1					
TPH Gasoline	ND	ug/L	6.6	50	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168635LCS1, QC1168635LCSD1											
TPH Gasoline	500	500	431	441	ug/L	86	88	2	70-130	30	

QCBatchID:	QC1168654	Analyst:	ttran	Method:	EPA 8015B
Matrix:	Solid	Analyzed:	06/25/2016	Instrument:	VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168654MB1					
TPH Gasoline	ND	mg/Kg	0.159	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168654LCS1, QC1168654LCSD1											
TPH Gasoline	5	5	4.31	4.37	mg/Kg	86	87	1	70-130	20	

QCBatchID: QC1168664	Analyst: JParedes	Method: EPA 7471A
Matrix: Solid	Analyzed: 06/28/2016	Instrument: AAICP-HG1

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168664MB1					
Mercury	ND	mg/Kg	0.02	0.14	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168664LCS1											
Mercury	0.83		0.82		mg/Kg	99			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168664MS1, QC1168664MSD1												**Source: 371033-001**
Mercury	0.08	0.83	0.83	0.86	0.89	mg/Kg	94	98	3.4	75-125	20	

QCBatchID: QC1168674	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168674MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Calcium	ND	mg/Kg	0.94	50	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Iron	ND	mg/Kg	0.4	5	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Potassium	**58.3**	mg/Kg	3.07	50	B
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168674LCS1											
Antimony	200		192		mg/Kg	96			80-120		
Arsenic	200		173		mg/Kg	87			80-120		
Barium	200		184		mg/Kg	92			80-120		
Beryllium	200		170		mg/Kg	85			80-120		
Cadmium	200		200		mg/Kg	100			80-120		
Chromium	200		188		mg/Kg	94			80-120		
Cobalt	200		186		mg/Kg	93			80-120		
Copper	200		165		mg/Kg	83			80-120		
Lead	200		187		mg/Kg	94			80-120		
Molybdenum	200		190		mg/Kg	95			80-120		
Nickel	200		181		mg/Kg	91			80-120		
Selenium	200		167		mg/Kg	84			80-120		
Silver	100		90.6		mg/Kg	91			80-120		
Thallium	200		188		mg/Kg	94			80-120		
Vanadium	200		173		mg/Kg	87			80-120		
Zinc	200		188		mg/Kg	94			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168674MS1, QC1168674MSD1												**Source: 370899-001**
Antimony	9.44	100	100	73.8	72.7	mg/Kg	64	63	1.5	75-125	20	M
Arsenic	ND	100	100	109	105	mg/Kg	109	105	3.7	75-125	20	
Barium	481	100	100	610	618	mg/Kg	129	137	1.3	75-125	20	NC
Beryllium	ND	100	100	102	103	mg/Kg	102	103	1.0	75-125	20	
Cadmium	33.4	100	100	110	110	mg/Kg	77	77	0.0	75-125	20	
Chromium	467	100	100	225	228	mg/Kg	0	0	1.3	75-125	20	NC

QCBatchID: QC1168674	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168674MS1, QC1168674MSD1												**Source: 370899-001**
Cobalt	8.57	100	100	111	108	mg/Kg	102	99	2.7	75-125	20	
Copper	291	100	100	605	356	mg/Kg	314	65	51.8	75-125	20	M
Lead	40.8	100	100	136	160	mg/Kg	95	119	16.2	75-125	20	
Molybdenum	14.8	100	100	121	115	mg/Kg	106	100	5.1	75-125	20	
Nickel	69.0	100	100	172	159	mg/Kg	103	90	7.9	75-125	20	
Selenium	ND	100	100	92.5	92.0	mg/Kg	105	104	0.5	75-125	20	
Silver	ND	50	50	185	151	mg/Kg	379	311	20.2	75-125	20	M
Thallium	0.49	100	100	94.9	92.2	mg/Kg	94	92	2.9	75-125	20	
Vanadium	20.0	100	100	125	122	mg/Kg	105	102	2.4	75-125	20	
Zinc	892	100	100	742	758	mg/Kg	0	0	2.1	75-125	20	NC

QCBatchID:	QC1168675	Analyst:	jeannynguye	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	06/29/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168675MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168675LCS1											
Lead	200		206		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168675MS1, QC1168675MSD1												**Source: 371006-107**
Lead	84.7	100	100	177	184	mg/Kg	92	99	3.9	75-125	20	

QCBatchID: QC1168676	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168676MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	**1.05**	mg/Kg	0.31	1	B
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	**0.77**	mg/Kg	0.13	0.5	B
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168676LCS1											
Antimony	200		232		mg/Kg	116			80-120		
Arsenic	200		213		mg/Kg	107			80-120		
Barium	200		223		mg/Kg	112			80-120		
Beryllium	200		214		mg/Kg	107			80-120		
Cadmium	200		195		mg/Kg	98			80-120		
Chromium	200		234		mg/Kg	117			80-120		
Cobalt	200		228		mg/Kg	114			80-120		
Copper	200		203		mg/Kg	102			80-120		
Lead	200		226		mg/Kg	113			80-120		
Molybdenum	200		229		mg/Kg	115			80-120		
Nickel	200		224		mg/Kg	112			80-120		
Selenium	200		200		mg/Kg	100			80-120		
Silver	100		100		mg/Kg	100			80-120		
Thallium	200		221		mg/Kg	111			80-120		
Vanadium	200		214		mg/Kg	107			80-120		
Zinc	200		227		mg/Kg	114			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168676MS1, QC1168676MSD1												**Source: 371006-026**
Antimony	ND	100	100	41.4	47.3	mg/Kg	43	49	13.3	75-125	20	M
Arsenic	5.18	100	100	108	111	mg/Kg	103	106	2.7	75-125	20	
Barium	140	100	100	232	241	mg/Kg	92	101	3.8	75-125	20	
Beryllium	ND	100	100	101	102	mg/Kg	104	105	1.0	75-125	20	
Cadmium	0.50	100	100	93.7	93.5	mg/Kg	93	93	0.2	75-125	20	
Chromium	19.2	100	100	125	122	mg/Kg	106	103	2.4	75-125	20	
Cobalt	12.5	100	100	116	114	mg/Kg	104	102	1.7	75-125	20	
Copper	18.0	100	100	116	116	mg/Kg	98	98	0.0	75-125	20	
Lead	20.1	100	100	120	122	mg/Kg	100	102	1.7	75-125	20	

QCBatchID: QC1168676	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168676MS1, QC1168676MSD1												**Source: 371006-026**
Molybdenum	0.50	100	100	101	104	mg/Kg	101	104	2.9	75-125	20	
Nickel	12.3	100	100	113	112	mg/Kg	101	100	0.9	75-125	20	
Selenium	ND	100	100	89.9	91.9	mg/Kg	96	98	2.2	75-125	20	
Silver	ND	50	50	44.2	42.8	mg/Kg	95	93	3.2	75-125	20	
Thallium	ND	100	100	92.3	93.7	mg/Kg	95	97	1.5	75-125	20	
Vanadium	44.3	100	100	141	144	mg/Kg	97	100	2.1	75-125	20	
Zinc	95.1	100	100	195	190	mg/Kg	100	95	2.6	75-125	20	

QCBatchID:	QC1168682	Analyst:	jeannynguye	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	06/29/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168682MB1					
Lead	**0.47 J**	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168682LCS1											
Lead	200		233		mg/Kg	117			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168682MS1, QC1168682MSD1												**Source: 371006-159**
Lead	131	100	100	226	217	mg/Kg	95	86	4.1	75-125	20	

QCBatchID: QC1168685	Analyst: JParedes	Method: EPA 7470A
Matrix: Water	Analyzed: 06/29/2016	Instrument: AAICP-HG1

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168685MB1					
Mercury	ND	ug/L	0.05	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168685LCS1											
Mercury	5		5.62		ug/L	112			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168685MS1, QC1168685MSD1												**Source: 371006-162**
Mercury	0.19	5	5	5.70	5.69	ug/L	106	106	0.2	75-125	20	

QCBatchID: QC1168702	Analyst: kedy	Method: EPA 6020
Matrix: Water	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168702MB1					
Arsenic	ND	ug/L	0.13	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168702LCS1											
Arsenic	50		45.8		ug/L	92			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168702MS1, QC1168702MSD1												**Source: 370943-076**
Arsenic	ND	50	50	46.3	48.6	ug/L	93	97	4.8	75-125	20	

QCBatchID:	QC1168704	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	06/29/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168704MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168704LCS1											
Arsenic	100		108		mg/Kg	108			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168704MS1, QC1168704MSD1												**Source: 371006-001**
Arsenic	4.53	100	100	96.9	86.0	mg/Kg	92	81	11.9	75-125	20	

QCBatchID:	QC1168706	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	06/29/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168706MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168706LCS1											
Arsenic	100		104		mg/Kg	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168706MS1, QC1168706MSD1												**Source: 371006-063**
Arsenic	5.57	100	100	96.9	104	mg/Kg	91	98	7.1	75-125	20	

QCBatchID:	QC1168708	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	06/29/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168708MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168708LCS1											
Arsenic	200		222		mg/Kg	111			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168708MS1, QC1168708MSD1												**Source: 371006-131**
Arsenic	2.52	200	200	181	201	mg/Kg	89	99	10.5	75-125	20	

QCBatchID: QC1168717	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Water	Analyzed: 06/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168717MB1					
Antimony	ND	mg/L	0.016	0.02	
Arsenic	ND	mg/L	0.004	0.01	
Barium	ND	mg/L	0.001	0.01	
Beryllium	ND	mg/L	0.001	0.005	
Cadmium	ND	mg/L	0.001	0.005	
Chromium	ND	mg/L	0.002	0.01	
Cobalt	ND	mg/L	0.001	0.005	
Copper	ND	mg/L	0.001	0.01	
Lead	ND	mg/L	0.004	0.005	
Molybdenum	ND	mg/L	0.002	0.01	
Nickel	ND	mg/L	0.001	0.02	
Selenium	ND	mg/L	0.004	0.01	
Silver	ND	mg/L	0.001	0.005	
Thallium	ND	mg/L	0.003	0.005	
Vanadium	ND	mg/L	0.003	0.005	
Zinc	ND	mg/L	0.002	0.02	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168717LCS1											
Antimony	2		2.12		mg/L	106			80-120		
Arsenic	2		1.93		mg/L	97			80-120		
Barium	2		2.11		mg/L	106			80-120		
Beryllium	2		1.90		mg/L	95			80-120		
Cadmium	2		2.13		mg/L	107			80-120		
Chromium	2		2.06		mg/L	103			80-120		
Cobalt	2		2.08		mg/L	104			80-120		
Copper	2		1.94		mg/L	97			80-120		
Lead	2		1.92		mg/L	96			80-120		
Molybdenum	2		1.93		mg/L	97			80-120		
Nickel	2		1.94		mg/L	97			80-120		
Selenium	2		1.84		mg/L	92			80-120		
Silver	1		0.989		mg/L	99			80-120		
Thallium	2		1.84		mg/L	92			80-120		
Vanadium	2		2.04		mg/L	102			80-120		
Zinc	2		2.03		mg/L	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1168717MS1, QC1168717MSD1												**Source: 371006-162**
Antimony	ND	1	1	1.03	1.06	mg/L	103	106	2.9	75-125	20	
Arsenic	0.007	1	1	0.950	0.991	mg/L	94	98	4.2	75-125	20	
Barium	ND	1	1	1.08	1.11	mg/L	108	111	2.7	75-125	20	
Beryllium	ND	1	1	0.993	1.01	mg/L	99	101	1.7	75-125	20	
Cadmium	ND	1	1	1.08	1.10	mg/L	108	110	1.8	75-125	20	
Chromium	ND	1	1	1.05	1.07	mg/L	105	107	1.9	75-125	20	
Cobalt	ND	1	1	1.07	1.09	mg/L	107	109	1.9	75-125	20	
Copper	0.007	1	1	0.983	1.00	mg/L	98	99	1.7	75-125	20	
Lead	ND	1	1	1.01	1.05	mg/L	101	105	3.9	75-125	20	

QCBatchID: QC1168717	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Water	Analyzed: 06/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168717MS1, QC1168717MSD1												**Source: 371006-162**
Molybdenum	0.004	1	1	1.03	1.04	mg/L	103	104	1.0	75-125	20	
Nickel	ND	1	1	0.999	1.02	mg/L	100	102	2.1	75-125	20	
Selenium	ND	1	1	0.915	0.949	mg/L	92	95	3.6	75-125	20	
Silver	ND	0.5	0.5	0.487	0.495	mg/L	97	99	1.6	75-125	20	
Thallium	0.005	1	1	0.992	1.03	mg/L	99	103	3.8	75-125	20	
Vanadium	ND	1	1	1.06	1.05	mg/L	106	105	0.9	75-125	20	
Zinc	0.009	1	1	1.02	1.05	mg/L	101	104	2.9	75-125	20	

QCBatchID: QC1168721	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/30/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168721MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.24	5	
1,1,1-Trichloroethane	ND	ug/Kg	0.15	5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.29	5	
1,1,2-Trichloroethane	ND	ug/Kg	0.22	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg	0.74	5	
1,1-Dichloroethane	ND	ug/Kg	0.23	5	
1,1-Dichloroethene	ND	ug/Kg	0.18	5	
1,1-Dichloropropene	ND	ug/Kg	0.21	5	
1,2,3-Trichlorobenzene	ND	ug/Kg	0.18	5	
1,2,3-Trichloropropane	ND	ug/Kg	0.2	5	
1,2,4-Trichlorobenzene	ND	ug/Kg	0.33	5	
1,2,4-Trimethylbenzene	ND	ug/Kg	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg	0.2	5	
1,2-Dibromoethane	ND	ug/Kg	0.12	5	
1,2-Dichlorobenzene	ND	ug/Kg	0.18	5	
1,2-Dichloroethane	ND	ug/Kg	0.14	5	
1,2-Dichloropropane	ND	ug/Kg	0.34	5	
1,3,5-Trimethylbenzene	ND	ug/Kg	0.23	5	
1,3-Dichlorobenzene	ND	ug/Kg	0.21	5	
1,3-Dichloropropane	ND	ug/Kg	0.19	5	
1,4-Dichlorobenzene	ND	ug/Kg	0.24	5	
2,2-Dichloropropane	ND	ug/Kg	0.19	5	
2-Butanone (MEK)	ND	ug/Kg	0.72	100	
2-Chloroethyl Vinyl Ether	ND	ug/Kg	0.3	5	
2-Chlorotoluene	ND	ug/Kg	0.25	5	
4-Chlorotoluene	ND	ug/Kg	0.22	5	
4-Isopropyltoluene	ND	ug/Kg	0.27	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	0.17	5	
Acetone	ND	ug/Kg	10	100	
Allyl Chloride	ND	ug/Kg	0.14	5	
Benzene	ND	ug/Kg	0.18	5	
Bromobenzene	ND	ug/Kg	0.3	5	
Bromochloromethane	ND	ug/Kg	0.18	5	
Bromodichloromethane	ND	ug/Kg	0.2	5	
Bromoform	ND	ug/Kg	0.19	5	
Bromomethane	ND	ug/Kg	0.22	5	
Carbon Tetrachloride	ND	ug/Kg	0.18	5	
Chlorobenzene	ND	ug/Kg	0.18	5	
Chlorodibromomethane	ND	ug/Kg	0.19	5	
Chloroethane	ND	ug/Kg	0.2	5	
Chloroform	ND	ug/Kg	0.17	5	
Chloromethane	ND	ug/Kg	0.21	5	
cis-1,2-Dichloroethene	ND	ug/Kg	0.2	5	
cis-1,3-dichloropropene	ND	ug/Kg	0.2	5	
cis-1,4-dichloro-2-butene	ND	ug/Kg	0.2	5	
Dibromomethane	ND	ug/Kg	0.23	5	
Dichlorodifluoromethane	ND	ug/Kg	0.23	5	
Di-isopropyl ether (DIPE)	ND	ug/Kg	0.21	5	
Ethylbenzene	ND	ug/Kg	0.25	5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg	0.42	5	
Hexachlorobutadiene	ND	ug/Kg	0.38	5	

QCBatchID: QC1168721	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/30/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168721MB1					
Isopropylbenzene	ND	ug/Kg	0.17	5	
m and p-Xylene	ND	ug/Kg	0.21	5	
Methylene chloride	ND	ug/Kg	0.22	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg	0.25	5	
Naphthalene	ND	ug/Kg	0.28	5	
N-butylbenzene	ND	ug/Kg	0.16	5	
N-propylbenzene	ND	ug/Kg	0.19	5	
o-Xylene	ND	ug/Kg	0.13	5	
Sec-butylbenzene	ND	ug/Kg	0.34	5	
Styrene	ND	ug/Kg	0.23	5	
t-Butyl alcohol (TBA)	ND	ug/Kg	8.8	10	
Tert-amylmethylether (TAME)	ND	ug/Kg	0.19	5	
Tert-butylbenzene	ND	ug/Kg	0.18	5	
Tetrachloroethene	ND	ug/Kg	0.2	5	
Toluene	ND	ug/Kg	0.23	5	
trans-1,2-dichloroethene	ND	ug/Kg	0.23	5	
trans-1,3-dichloropropene	ND	ug/Kg	0.14	5	
trans-1,4-dichloro-2-butene	ND	ug/Kg	0.38	5	
Trichloroethene	ND	ug/Kg	0.39	5	
Trichlorofluoromethane	ND	ug/Kg	0.25	5	
Vinyl Chloride	ND	ug/Kg	0.18	5	
Xylenes (Total)	ND	ug/Kg	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168721LCS1											
1,1-Dichloroethene	50		56		ug/Kg	112			59-172		
Benzene	50		50		ug/Kg	100			62-137		
Chlorobenzene	50		51		ug/Kg	102			60-133		
Methyl-t-butyl Ether (MTBE)	50		53		ug/Kg	106			62-137		
Toluene	50		49		ug/Kg	98			59-139		
Trichloroethene	50		50		ug/Kg	100			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168721MS1, QC1168721MSD1												**Source: 371006-070**
1,1-Dichloroethene	ND	50	50	48	47	ug/Kg	96	94	2.1	59-172	22	
Benzene	0.41	50	50	49	47	ug/Kg	97	93	4.2	62-137	24	
Chlorobenzene	ND	50	50	49	48	ug/Kg	98	96	2.1	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	53	51	ug/Kg	106	102	3.8	62-137	21	
Toluene	ND	50	50	46	46	ug/Kg	92	92	0.0	59-139	21	
Trichloroethene	ND	50	50	45	45	ug/Kg	90	90	0.0	66-142	21	

QCBatchID:	QC1168722	Analyst:	ttran	Method:	EPA 8015B
Matrix:	Solid	Analyzed:	06/30/2016	Instrument:	VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168722MB1					
TPH Gasoline	ND	mg/Kg	0.159	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168722LCS1, QC1168722LCSD1											
TPH Gasoline	5	5	4.67	4.67	mg/Kg	93	93	0	70-130	20	

QCBatchID:	QC1168844	Analyst:	JParedes	Method:	EPA 7471A
Matrix:	Solid	Analyzed:	07/06/2016	Instrument:	AAICP-HG1

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168844MB1					
Mercury	ND	mg/Kg	0.02	0.14	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168844LCS1											
Mercury	0.83		0.81		mg/Kg	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168844MS1, QC1168844MSD1												**Source: 371006-083**
Mercury	0.09	0.83	0.83	0.80	0.85	mg/Kg	86	92	6.1	75-125	20	

QCBatchID: QC1169005	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 07/12/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169005MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169005LCS1											
Antimony	200		228		mg/Kg	114			80-120		
Arsenic	200		189		mg/Kg	95			80-120		
Barium	200		194		mg/Kg	97			80-120		
Beryllium	200		200		mg/Kg	100			80-120		
Cadmium	200		199		mg/Kg	100			80-120		
Chromium	200		194		mg/Kg	97			80-120		
Cobalt	200		195		mg/Kg	98			80-120		
Copper	200		203		mg/Kg	102			80-120		
Lead	200		197		mg/Kg	99			80-120		
Molybdenum	200		189		mg/Kg	95			80-120		
Nickel	200		188		mg/Kg	94			80-120		
Selenium	200		180		mg/Kg	90			80-120		
Silver	100		89.9		mg/Kg	90			80-120		
Thallium	200		193		mg/Kg	97			80-120		
Vanadium	200		191		mg/Kg	96			80-120		
Zinc	200		190		mg/Kg	95			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169005MS1, QC1169005MSD1												**Source: 371006-057**
Antimony	ND	100	100	27.8	31.5	mg/Kg	28	32	12.5	75-125	20	M
Arsenic	5.35	100	100	90.5	104	mg/Kg	85	99	13.9	75-125	20	
Barium	107	100	100	195	210	mg/Kg	88	103	7.4	75-125	20	
Beryllium	ND	100	100	91.6	99.7	mg/Kg	93	102	8.5	75-125	20	
Cadmium	ND	100	100	89.9	103	mg/Kg	90	103	13.6	75-125	20	
Chromium	13.7	100	100	99.6	114	mg/Kg	86	100	13.5	75-125	20	
Cobalt	9.02	100	100	94.0	108	mg/Kg	85	99	13.9	75-125	20	
Copper	16.0	100	100	115	124	mg/Kg	99	108	7.5	75-125	20	
Lead	40.6	100	100	124	136	mg/Kg	83	95	9.2	75-125	20	

QCBatchID: QC1169005	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 07/12/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169005MS1, QC1169005MSD1											**Source:**	**371006-057**
Molybdenum	ND	100	100	82.2	94.9	mg/Kg	82	95	14.3	75-125	20	
Nickel	8.93	100	100	91.1	107	mg/Kg	82	98	16.1	75-125	20	
Selenium	ND	100	100	78.0	90.2	mg/Kg	83	95	14.5	75-125	20	
Silver	ND	50	50	42.2	43.2	mg/Kg	84	86	2.3	75-125	20	
Thallium	ND	100	100	78.7	90.6	mg/Kg	81	93	14.1	75-125	20	
Vanadium	31.9	100	100	118	128	mg/Kg	86	96	8.1	75-125	20	
Zinc	115	100	100	189	208	mg/Kg	74	93	9.6	75-125	20	M

QCBatchID:	QC1169018	Analyst:	JParedes	Method:	EPA 7471A
Matrix:	Solid	Analyzed:	07/13/2016	Instrument:	AAICP-HG1

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169018MB1					
Mercury	ND	mg/Kg	0.02	0.14	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169018LCS1											
Mercury	0.83		0.84		mg/Kg	101			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169018MS1, QC1169018MSD1												**Source: 371006-057**
Mercury	0.05	0.83	0.83	0.83	0.86	mg/Kg	94	98	3.6	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 371006	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 1 of 18	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3					
c/o Montrose Environmental Group	FL = Food Liquid FS = Food Solid L = Liquid	4 = H_2SO_4 5 = NaOH 6 = Other					
1 Park Plaza, Suite 1000, Irvine, CA 92614	PP = Pure Product S = Solid SeaW = Sea Water						
	SW = Swab W = Water WP = Wipe O = Other						

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

Analysis Request

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)		~~Title 22 metals 6010 EX~~		Test Instructions / Comments
1	SS17-0.5	6/23/16	0658	Soil	1 sleeve	None	X	X									
2	SS17-1.5		0659														Archive & Hold
3	SS17-2.5		0700														Archive & Hold
4	SS20-0.5		0658				X	X					X				
5	SS20-1.5		0700														Archive & Hold
6	SS20-2.5		0702														Archive & Hold
7	SS19-0.5		0705				X	X					X				
8	SS19-0.5 Dup		0705				X	X					X				
9	SS19-1.5		0707														Archive & Hold
10	SS19-2.5		0709														Archive & Hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	6/23 1612
1 Received By:	[signature]	L. Marrolett		6/23/16 1612
2 Relinquished By:	[signature]	L. Marrolett		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EA	6-23-16 1753
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 2 of 18	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS21-0.5	6/23	0704	Soil	1x Sleeve	None	X	X									
2	SS21-1.5		0707														Archive & Hold
3	SS21-2.5		0708														Archive & Hold
4	SS18-0.5		0715				X	X									
5	SS18-1.5		0714														Archive & Hold
6	SS18-2.5		0717														Archive & Hold
7	SS22-0.5		0712				X	X									
8	SS22-1.5		0714														Archive & Hold
9	SS22-2.5		0716														Archive & Hold
10	SS23-0.5		0722				X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	Alta	6/23/16 1612
1 Received By:	[illegible]	C. Marrolli		6/23/16 1612
2 Relinquished By:	[illegible]	C. Marrolli		6/23/16 1753
2 Received By:	[illegible]	Albert Vergara	EA	6-23-16 17:53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 371006	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 3 of 18	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3					
c/o Montrose Environmental Group	FL = Food Liquid FS = Food Solid L = Liquid	4 = H_2SO_4 5 = NaOH 6 = Other					
1 Park Plaza, Suite 1000, Irvine, CA 92614	PP = Pure Product S = Solid SeaW = Sea Water						
	SW = Swab W = Water WP = Wipe O = Other						

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS23-1.5	6/23	0723	Soil	1x Sleeve	None											Hold & Archive
2	SS23-2.5		0724														Hold & Archive
3	SS13-0.5		0729				X	X									
4	SS13-1.5		0730														Hold & Archive
5	SS13-2.5		0731														Hold & Archive
6	SS16-0.5		0735				X	X									
7	SS16-1.5		0737														Archive & Hold
8	SS16-2.5		0738														Archive & Hold
9	SS12-0.5		0740				X	X					X				
10	SS12-0.5 Dup		0740				X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	6/23 1612
1 Received By:	[signature]	L. Marrolletti		6/23/16 1612
2 Relinquished By:	[signature]	L. Marrolletti		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EA	6-23-16 17:53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 37006	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 4 of 18	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3					
c/o Montrose Environmental Group	FL = Food Liquid FS = Food Solid L = Liquid	4 = H_2SO_4 5 = NaOH 6 = Other					
1 Park Plaza, Suite 1000, Irvine, CA 92614	PP = Pure Product S = Solid SeaW = Sea Water						
	SW = Swab W = Water WP = Wipe O = Other						

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS12-1.5	6/23	0741	Soil	1xSleeve	None											Archive & Hold
2	SS12-2.5		0742														Archive & Hold
3	SS11-0.5		0748				X	X									
4	SS11-1.5		0749														Archive & hold
5	SS11-2.5		0750														Archive & hold
6	SS14-0.5		0752				X	X									
7	SS14-1.5		0753														Archive & hold
8	SS14-2.5		0755														Archive & hold
9	SS15-0.5		0758				X	X									
10	SS15-1.5		0800														Archive & hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta Env	6/23/16 1612
1 Received By:	[signature]	C. Marroletti		6/23/16 1612
2 Relinquished By:	[signature]	C. Marroletti		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EA	6-23-16 1753
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 371006

Page: 5 of 18

Turn Around Time (Rush by advanced notice only)

Standard:	X	4 Day:		3 Day:	
2 Day:		1 Day:		Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS15-2.5	06/23	0802	Soil	1xSleeve	None											Archive & hold
2	SS10-0.5		0804				X	X									
3	SS10-1.5		0806														Archive & hold
4	SS10-2.5		0806														Archive & hold
5	SS8-0.5		0812				X	X									
6	SS8-1.5		0813														Archive & hold
7	SS8-2.5		0814														Archive & hold
8	SS9-0.5		0815				X	X									
9	SS9-1.5		0816														Archive & hold
10	SS9-2.5		0817														Archive & hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Eric Fraske	Alta Env	062316 1612
1 Received By:	[illegible]	L. Marcoletti		6/23/16 1612
2 Relinquished By:	[illegible]	L. Marcoletti		6/23/16 1753
2 Received By:	[illegible]	Albert Vargas	EA	6/23/16 1753
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 6 of 18	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)	Title 22 metals 6010B			Test Instructions / Comments
1	SS6 -0.5	6/23	0832	Soil	5 VOAs / 1 sleeve					X	X	X					
2	SS6 - 1.5		0833		1 sleeve												Archive & Hold
3	SS6 - 2.5		0834		1 sleeve												Archive & Hold
4	SS7 - 0.5		0838		5 VOA / 1 sleeve					X	X	X					
5	SS7 - 1.5		0840		1 sleeve												Archive & Hold
6	SS7 - 2.5		0841		1 sleeve												Archive & Hold
7	SS99 - 0.5		0830		5 VOA / 1 sleeve		X			X	X	X	X				
8	SS99 - 1.5		0831		1 sleeve												Archive & Hold
9	SS99 - 2.5		0832		1 sleeve												Archive & Hold
10	SS89 - 0.5		0834		5 VOA / 1 sleeve		X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	6/23/16 1612
1 Received By:	[signature]	L. Marroletti		6/23/16 1612
2 Relinquished By:	[signature]	L. Marroletti		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EA	6-23-16 17:53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 7 of 18	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPHY analytical, inc.

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Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)	Title 22 metals 6010B			Test Instructions / Comments
1	SS89 - 1.5	6/23	0835	SOIL	1 sleeve												Archive & Hold
2	SS89 - 2.5		0834		1 sleeve												Archive & Hold
3	SS92 - 0.5		0929				X	X									
4	SS92 - 1.5		0930														Archive & Hold
5	SS92 - 2.5		0931														Archive & Hold
6	SS90 - 0.5		0925				X	X									
7	SS90 - 1.5		0926														Archive & Hold
8	SS90 - 2.5		0926														Archive & Hold
9	SS98 - 0.5		0852		5 voa / 1 sleeve		X			X	X	X		X			
10	SS98 - 0.5 Dup		0852		1 sleeve		~~X~~			X	X	X		X			No As sample EP

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	Alta	6/23 1612
1 Received By:	[illegible]	L. Marrolletti		6/23/16 1612
2 Relinquished By:	[illegible]	L. Marrolletti		6/23/16 1753
2 Received By:	[illegible]	Albert Vergara	EA	6-23-16 1753
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 8 of 18	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
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Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)	Title 22 metals 6010			Test Instructions / Comments
1	S598-1.5	6/23	0854	Soil	1 sleeve												Archive & Hold
2	S598-2.5	6/23	0855	Soil													Archive & Hold
3	S563-1.5		1015														Archive & Hold
4	S563-5.5		1016														Archive & Hold
5	S563-10.5		1017		5 voa / 1 sleeve					X	X	X	X				
6	S555-0.5		1010		5 voa / 1 sleeve		X	X		X	X	X	X				
7	S555-1.5		1011		1 sleeve												Archive & Hold
8	S555-2.5		1012		1 sleeve												Archive & Hold
9	S567-0.5		1016		5 voa / 1 sleeve		X			X	X	X	X	X			
10	S567-0.5 Dup		1016		5 voa / 1 sleeve		X			X	X	X	X	X			No metal 6010 analysis As 6020

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	6/25 1612
1 Received By:	[signature]	C. Marrolletti		6/23/16 1612
2 Relinquished By:	[signature]	L. Marrolletti		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EP	6-23-16 17:53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	Page: 9 of 18	

ENTHALPY analytical, inc.

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)	Title 22 metals 6010			Test Instructions / Comments
1	SS67-1.5	6/23/16	1017	Soil	1 sleeve												Archive & Hold
2	-2.5		1018														Archive & Hold
3	SS68-0.5		1020		5 voa 1 sleeve		X			X	X	X	X	X			
4	-1.5		1021		1 sleeve												Archive & Hold
5	-2.5		1022														Archive & Hold
6	SS62-~~0~~ D.B. 1.5		1024														Archive & Hold
7	-5.5		1025														Archive & Hold
8	-10.5		1026		5 voa 1 sleeve					X	X	X	X				
9	SS51-0.5		1034		1 sleeve		X	X									
10	-1.5		1035														Archive & Hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	Alta	6/23/16 1612
1 Received By:	[illegible]	C. Marrokki		6/23/16 1612
2 Relinquished By:	[illegible]	C. Marrokki		6/23/16 1753
2 Received By:	[illegible]	Alberto Vargas	EA	6-23-16 17.53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371000 Page: 10 of 18	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS51-2.5	6/23/16	1037	Soil	1 sleeve												Archive & Hold
2	SS52-0.5		1042				X	X									
3	1.5		1043														Archive & Hold
4	-2.5		1044														Archive & Hold
5	SS60-1.5		1050														Archive & Hold
6	-5.5		1052														Archive & Hold
7	-10.5		1054		5 von 1 sleeve					X	X	X					
8	SS61-1.5		1112		~~5 von~~ 1 sleeve												Archive & Hold
9	-5.5		1114														Archive & Hold
10	-10.5		1116		5 von 1 sleeve					X	X	X					

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	6/23/16 1612
1 Received By:	[signature]	C. Marrotti		6/23/16 1612
2 Relinquished By:	[signature]	C. Marrotti		6/23/16 1753
2 Received By:	[signature]	E. Albert Vargas	EA	6-23-16 17:58
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 11 of 18	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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Email:	eric.fraske@altaenviron.com	P.O. #:	
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Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS53-0.5	6/23/16	1140	SOIL	1 sleeve												~~Archive & Hold~~ EF
2	-1.5		1141														Archive & Hold
3	-2.5		1142														Archive & Hold
4	SS71-0.5		1230				X	X									
5	-1.5		1231														Archive & Hold
6	-2.5		1232														Archive & Hold
7	SS54-0.5		1239				X	X									
8	-1.5		1240														Archive & Hold
9	-2.5		1241														Archive & Hold
10	SS72-0.5		1239	J			X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	06/23/16 1612
1 Received By:	[signature]	L. Marrokh		6/23/16 1612
2 Relinquished By:	[signature]	L. Marrokh		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EA	6-23-16 17:53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 12 of 18	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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1	5572 - 1.5	6/23/16	1240	soil	1 sleeve												Archive & Hold
2	↓ -2.5	↓	1242	↓	↓												Archive & Hold
3	5569 - 0.5		1247				X	X					X				
4	↓ -1.5		1248														Archive & Hold
5	↓ -2.5		1249														Archive & Hold
6	5556 - 0.5		1251		5 VOA / 1 sleeve		X	X		X	X	X	X				
7	↓ -1.5		1253		1 sleeve												Archive & Hold
8	↓ -2.5		1254		↓												Archive & Hold
9	5570 - 0.5		1257		1 sleeve		X	X									
10	↓ -1.5	↓	1259	↓	↓												Archive & Hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Eric Fraske	Alta	6/23/16 1615
1 Received By:	[illegible]	L. Manuelli		6/23/16 1612
2 Relinquished By:	[illegible]	L. Manuelli		6/23/16 1753
2 Received By:	[illegible]	Albert Wong	EA	6-23-16 1753
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 371006	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 13 of 18	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS70 - 2.5	6/23/16	1303	Soil	1 sleeve	None											Archive and Hold
2	SS77 - 0.5		1310				X	X									
3	- 0.5 DUP		1310				X	X									
4	- 1.5		1311														Archive and Hold
5	- 2.5		1312														Archive and Hold
6	SS80 - 0.5		1316				X	X					X				
7	- 0.5 DUP		1316				X	X									
8	- 1.5		1317														Archive and Hold
9	- 2.5		1318														Archive and Hold
10	SS79 - 0.5		1334		1 Sleeve	None	X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	6/23/16 1612
1 Received By:	[signature]	L. Marrolette		6/23/16 1612
2 Relinquished By:	[signature]	L. Marrolette		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EA	6-23-16 1753
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 14 of 18	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS79-0.5 DUP	6/23	1334	Soil	1x Sleeve	None	X	X									
2	SS79-1.5		1335														Archive & Hold
3	SS79-2.5		1336														Archive & Hold
4	SS76-0.5		1330				X	X									
5	SS76-1.5		1331														Archive & Hold
6	SS76-2.5		1332														Archive & Hold
7	SS73-0.5		1338				X	X									
8	SS73-1.5		1340														Archive & Hold
9	SS73-2.5		1341														Archive & Hold
10	SS78-0.5		1345				X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	Alta	062316 1612
1 Received By:	[illegible]	L. Marrakchi		6/23/16 1612
2 Relinquished By:	[illegible]	L. Marrakchi		6/23/16 1753
2 Received By:	[illegible]	Alberto Vargas	EA	6-23-16 1753
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 15 of 18	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS78-0.5DUP	6/23	1345	Soil	1x sleeve	None	X	X									
2	SS78-1.5		1346														Archive & Hold
3	SS78-2.5		1347														Archive & Hold
4	SS74-0.5		1345				X	X									
5	SS74-1.5		1346														Archive & Hold
6	SS74-2.5		1348														Archive & Hold
7	SS85-0.5		1355				X	X									
8	SS85-1.5		1356														Archive & Hold
9	SS85-2.5		1357														Archive & Hold
10	SS88-0.5		1401				X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	Alta	06/23 1612
1 Received By:	[illegible]	C Marrolotti		6/23/16 1612
2 Relinquished By:	[illegible]	C. Marrolotti		6/23/16 1753
2 Received By:	[illegible]	Albert Vargas	EA	6-23-16 17:53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371000 Page: 16 of 18	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS88-1.5	6/23	1402	Soil	1x Sleeve	None											Archive & Hold
2	SS88-2.5		1403														Archive & Hold
3	SS75-0.5		1355				X	X									
4	SS75-1.5		1356														Archive & Hold
5	SS75-2.5		1357														Archive & Hold
6	SS86-0.5		1427				X	X									
7	SS86-1.5		1428														Archive & Hold
8	SS86-2.5		1429														Archive & Hold
9	SS87-0.5		1411				X	X									
10	SS87-1.5		1412														Archive & Hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	0623 1612
1 Received By:	[signature]	L. Marcelli		6/23/16 1612
2 Relinquished By:	[signature]	L. Marcelli		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EA	6-23-16 17:53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371006 Page: 17 of 18	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)	Title 22 metals 6010			Test Instructions / Comments
1	SS872-5	6/23	1413	Soil	1x Sleeve	None											Archive & Hold
2	EQBL623AA		1440	water	3 Amber 3 Poly 5 VOA		X		X	X	X	X	X	X			
3	EQBL623GP		1440	water	3 Amber 3 Poly 5 VOA		X	X	X	X	X	X	X				
4	COMP 2	6/23	—	Soil					X								Composite SS870-0.5, SS9-0.5 SS10-0.5 & SS11-0.5
5	COMP 3	6/23	—	Soil					X								Composite SS12-0.5, SS13-0.5 SS14-0.5 & SS15-0.5
6	COMP 4	6/23	—	Soil					X								Composite SS16-0.5, SS17-0.5 SS18-0.5, SS19-0.5
7	COMP 5	6/23	—	Soil					X								Composite SS20-0.5, SS21-0.5, SS22-0.5, & SS23-0.5
8	COMP 13	6/23	—	Soil					X								Composite SS51-0.5, SS52-0.5 SS53-0.5, SS67-0.5
9	COMP 14	6/23	—	Soil					X								Composite SS54-0.5, SS55-0.5, SS56-0.5, SS68-0.5
10	COMP 15	6/23	—	Soil					X								Composite SS69-0.5, SS70-0.5 SS71-0.5, SS72-0.5

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	06.23.16 1612
1 Received By:	[signature]	L. Marrokki		6/23/16 1612
2 Relinquished By:	[signature]	L. Marrokki		6/23/16 1753
2 Received By:	[signature]	Albert Vargas	EA	6-23-16 17:53
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 371006	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 18 of 18	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3					
c/o Montrose Environmental Group	FL = Food Liquid FS = Food Solid L = Liquid	4 = H_2SO_4 5 = NaOH 6 = Other					
1 Park Plaza, Suite 1000, Irvine, CA 92614	PP = Pure Product S = Solid SeaW = Sea Water						
	SW = Swab W = Water WP = Wipe O = Other						

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

Analysis Request

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	COMP16	6/23	—	Soil	~~[illegible]~~	None			X								Composite SS73, ~~[illegible]~~ 0.5, SS74-0.5 SS75-0.5 & SS76-0.5
2	COMP17	6/23	—	Soil	—	None			X								Composite SS77-0.5, SS78-0.5, SS79-0.5, SS80-0.5
3	COMP19	6/23	—	Soil	—	—			X								Composite SS85-0.5, SS86-0.5, SS87-0.5 & SS88-0.5
4	COMP20	6/23	—	Soil	—	—			X								Composite SS89-0.5, SS90-0.5 * SS91-0.5, SS92-0.5
5	COMP22	6/23	—	Soil	—	—			X								Composite SS97-0.5, SS98-0.5 * SS99-0.5, SS100-0.5
6	COMP17 DUP	6/23	—	Soil	—	—			X								Composite SS77-0.5DUP, SS78-0.5DUP SS79-0.5DUP, SS80-0.5DUP
7																	
8																	
9																	
10																	

*SS91-0.5 Submitted with 6/22/16 Batch

*SS97 & SS100 Submitted with 6/22/16 Batch

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	062516 1612
1 Received By:	[signature]	L. Marrolett		6/23/16 1612
2 Relinquished By:	[signature]	L. Marrolett		6/23/16 1753
2 Received By:	[signature]	EA		6-23-16 17:55
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Alta Env. Project: Jefferson High School

Date Received: 6-23-16 Sampler's Signature Present: Yes (No)

Sample temperature: _____

Sample(s) received in cooler: Yes No (Skip Section 2)

Shipping Information: _____

Section 2

Was the cooler packed with: ____ Ice ____ Ice Packs ____ Bubble Wrap ____ Styrofoam ____ Paper ____ None ____ Other _____

Cooler 1 Temperature: 5.4 Cooler 2 Temperature: 22.1 Cooler 3 Temperature: ~~6~~ 24.0

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤ 10 Deg. C or arrival on ice)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?	✓		
If Yes – were they intact?		✓	
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?	✓		
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay Dept. immediately.*			✓

Section 4

Explanations/Comments Recieved 2 tripBlanks that were not on COC.

Section 5

Was the Project Manager notified via email of discrepancies: (Y) / N , N/A

Project Manager's response: Will ask client if they want them run.

Completed By: [signature] Date: 6-24-16

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Thursday, July 07, 2016 2:59 PM
To: Ranjit Clarke
Subject: RE: Jefferson High School (06/23/16) - 371006 (Draft)

Hi Ranjit,

My apologies, Please run sample SS99-0.5 (collected on 6/23/16) for Title 22 Metals by 6010B. My request below was for lead only. I actually need all Title 22 Metals reported for that sample.

Thanks,

Eric Fraske, PE
Project Manager/Senior III

ALTA ENVIRONMENTAL
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3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

From: Ranjit Clarke [mailto:Ranjit.Clarke@enthalpy.com]
Sent: Thursday, July 07, 2016 2:28 PM
To: Eric Fraske <Eric.Fraske@altaenviron.com>
Subject: RE: Jefferson High School (06/23/16) - 371006 (Draft)

Will do.

ENTHALPY analytical, inc.

Ranjit Clarke
O: 714-771-9906 / M:657-274-9864 / F: 714-771-9933
Ranjit.Clarke@enthalpy.com

From: Eric Fraske [mailto:Eric.Fraske@altaenviron.com]
Sent: Thursday, July 07, 2016 2:27 PM
To: Ranjit Clarke <Ranjit.Clarke@enthalpy.com>
Subject: RE: Jefferson High School (06/23/16) - 371006 (Draft)

Hi Ranjit,

Thank you and please run sample SS99-0.5 for lead by 6010b.

Please proceed with compositing and analyzing samples COMP2 and COMP13 without the missing samples (SS9 and SS53) as indicated in your email.

Thank you.

Eric Fraske, PE
Project Manager/Senior III

ALTA ENVIRONMENTAL
Expertise to Reduce Your Environmental and Safety Risks

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

From: Ranjit Clarke [mailto:Ranjit.Clarke@enthalpy.com]
Sent: Thursday, July 07, 2016 1:56 PM
To: Eric Fraske <Eric.Fraske@altaenviron.com>
Subject: RE: Jefferson High School (06/23/16) - 371006 (Draft)

Eric,

We can run sample SS99-0.5 for Lead by 6010B.

We cannot run sample SS53-0.5 since that sample was destroyed.

Also, due to the fire, the following samples are not available for 8081A compositing:

1) **composite sample COMP2: "SS9-0.5".**
2) **composite sample COMP13: "SS53-0.5".**

Please confirm that it is o.k. to composite those samples with the other 3 sleeves. If so, the sub lab will do so and make a note on the report.

Thanks,

Ranjit

ENTHALPY analytical, inc.

Ranjit Clarke

O: 714-771-9906 / M:657-274-9864 / F: 714-771-9933
Ranjit.Clarke@enthalpy.com

From: Eric Fraske [mailto:Eric.Fraske@altaenviron.com]
Sent: Thursday, July 07, 2016 10:55 AM
To: Ranjit Clarke <Ranjit.Clarke@enthalpy.com>
Subject: RE: Jefferson High School (06/23/16) - 371006 (Draft)

Hi Ranjit,

Can I get sample SS53-0.5 (sampled at 1140 on 6/23/2016) analyzed for lead by 6010 and arsenic by 6020?

I would also like to get sample SS99-0.5 (sampled at 0830 on 6/23/2016) analyzed for lead by 6010.

Please let me know if these samples can be analyzed or not.

Thank you.

Eric Fraske, PE
Project Manager/Senior III

ALTA ENVIRONMENTAL
Expertise to Reduce Your Environmental and Safety Risks

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

From: Ranjit Clarke [mailto:Ranjit.Clarke@enthalpy.com]
Sent: Thursday, July 07, 2016 9:20 AM
To: Eric Fraske <Eric.Fraske@altaenviron.com>
Cc: Mike Cassidy <Mike.Cassidy@altaenviron.com>
Subject: Jefferson High School (06/23/16) - 371006 (Draft)

Eric,

Here is a draft report for #371006. **Since we are subbing out samples for the missing analyses, we will generate a final report once those results are ready.** Everything contained herein is final and will not change.

Thanks,

Ranjit

In accordance with our paperless initiative, we are no longer mailing or faxing reports by default. If you require a hard copy, please inform your Project Manager.

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

18 July 2016

Ranjit Clarke
Enthalpy Analytical, Inc.
806 N. Batavia
Orange, CA 92868

RE: 371006 PO# 371006

Enclosed are the results of analyses for samples received by the laboratory on 07/06/16 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh

Rose Fasheh For Nicole Bryson
Client Services Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Enthalpy Analytical, Inc.	Project: 371006 PO# 371006	
806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
371006-004	T161490-01	Soil	06/23/16 06:58	07/06/16 17:25
371006-007	T161490-02	Soil	06/23/16 07:05	07/06/16 17:25
371006-008	T161490-03	Soil	06/23/16 07:05	07/06/16 17:25
371006-029	T161490-04	Soil	06/23/16 07:40	07/06/16 17:25
371006-051	T161490-05	Soil	06/23/16 08:32	07/06/16 17:25
371006-054	T161490-06	Soil	06/23/16 08:38	07/06/16 17:25
371006-057	T161490-07	Soil	06/23/16 08:30	07/06/16 17:25
371006-069	T161490-08	Soil	06/23/16 08:52	07/06/16 17:25
371006-070	T161490-09	Soil	06/23/16 08:52	07/06/16 17:25
371006-075	T161490-10	Soil	06/23/16 10:17	07/06/16 17:25
371006-076	T161490-11	Soil	06/23/16 10:10	07/06/16 17:25
371006-079	T161490-12	Soil	06/23/16 10:16	07/06/16 17:25
371006-080	T161490-13	Soil	06/23/16 10:16	07/06/16 17:25
371006-083	T161490-14	Soil	06/23/16 10:20	07/06/16 17:25
371006-088	T161490-15	Soil	06/23/16 10:26	07/06/16 17:25
371006-097	T161490-16	Soil	06/23/16 10:54	07/06/16 17:25
371006-100	T161490-17	Soil	06/23/16 11:16	07/06/16 17:25
371006-113	T161490-18	Soil	06/23/16 12:47	07/06/16 17:25
371006-116	T161490-19	Soil	06/23/16 12:51	07/06/16 17:25
371006-126	T161490-20	Soil	06/23/16 13:16	07/06/16 17:25
371006-164	T161490-21	Soil	06/23/16 00:00	07/06/16 17:25
371006-165	T161490-22	Soil	06/23/16 00:00	07/06/16 17:25
371006-166	T161490-23	Soil	06/23/16 00:00	07/06/16 17:25
371006-167	T161490-24	Soil	06/23/16 00:00	07/06/16 17:25
371006-168	T161490-25	Soil	06/23/16 00:00	07/06/16 17:25
371006-169	T161490-26	Soil	06/23/16 00:00	07/06/16 17:25
371006-170	T161490-27	Soil	06/23/16 00:00	07/06/16 17:25
371006-171	T161490-28	Soil	06/23/16 00:00	07/06/16 17:25
371006-172	T161490-29	Soil	06/23/16 00:00	07/06/16 17:25

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
371006-173	T161490-30	Soil	06/23/16 00:00	07/06/16 17:25
371006-174	T161490-31	Soil	06/23/16 00:00	07/06/16 17:25
371006-175	T161490-32	Soil	06/23/16 00:00	07/06/16 17:25
371006-176	T161490-33	Soil	06/23/16 00:00	07/06/16 17:25

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

DETECTIONS SUMMARY

Sample ID: 371006-004 **Laboratory ID:** T161490-01

No Results Detected

Sample ID: 371006-007 **Laboratory ID:** T161490-02

No Results Detected

Sample ID: 371006-008 **Laboratory ID:** T161490-03

No Results Detected

Sample ID: 371006-029 **Laboratory ID:** T161490-04

Analyte	Result	Reporting Limit	Units	Method	Notes
PCB-1260	**9.0**	10	ug/kg	EPA 8082	J

Sample ID: 371006-051 **Laboratory ID:** T161490-05

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**19**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**480**	10	mg/kg	EPA 8015C	

Sample ID: 371006-054 **Laboratory ID:** T161490-06

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: 371006-054 **Laboratory ID:** T161490-06

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**52**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**2800**	10	mg/kg	EPA 8015C	

Sample ID: 371006-057 **Laboratory ID:** T161490-07

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**66**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**49**	10	mg/kg	EPA 8015C	

Sample ID: 371006-069 **Laboratory ID:** T161490-08

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**48**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**52**	10	mg/kg	EPA 8015C	

Sample ID: 371006-070 **Laboratory ID:** T161490-09

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**97**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**39**	10	mg/kg	EPA 8015C	

Sample ID: 371006-075 **Laboratory ID:** T161490-10

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**96**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**28**	10	mg/kg	EPA 8015C	

Sample ID: 371006-076 **Laboratory ID:** T161490-11

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**47**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**83**	10	mg/kg	EPA 8015C	

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Sample ID: 371006-079 **Laboratory ID:** T161490-12

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**68**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**68**	10	mg/kg	EPA 8015C	

Sample ID: 371006-080 **Laboratory ID:** T161490-13

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**56**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**79**	10	mg/kg	EPA 8015C	

Sample ID: 371006-083 **Laboratory ID:** T161490-14

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**48**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**92**	10	mg/kg	EPA 8015C	
PCB-1260	**4.9**	10	ug/kg	EPA 8082	J

Sample ID: 371006-088 **Laboratory ID:** T161490-15

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**47**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**8.4**	10	mg/kg	EPA 8015C	J

Sample ID: 371006-097 **Laboratory ID:** T161490-16

No Results Detected

Sample ID: 371006-100 **Laboratory ID:** T161490-17

No Results Detected

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Sample ID: 371006-113 **Laboratory ID:** T161490-18

No Results Detected

Sample ID: 371006-116 **Laboratory ID:** T161490-19

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**77**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**390**	10	mg/kg	EPA 8015C	
PCB-1260	**7.1**	10	ug/kg	EPA 8082	J

Sample ID: 371006-126 **Laboratory ID:** T161490-20

Analyte	Result	Reporting Limit	Units	Method	Notes
PCB-1260	**9.6**	10	ug/kg	EPA 8082	J

Sample ID: 371006-164 **Laboratory ID:** T161490-21

No Results Detected

Sample ID: 371006-165 **Laboratory ID:** T161490-22

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**2.9**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**3.9**	5.0	ug/kg	EPA 8081A	J
4,4´-DDE	**18**	5.0	ug/kg	EPA 8081A	
Dieldrin	**0.69**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371006-166 **Laboratory ID:** T161490-23

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**4.6**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**3.8**	5.0	ug/kg	EPA 8081A	J

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Sample ID: 371006-167 **Laboratory ID:** T161490-24

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**42**	50	ug/kg	EPA 8081A	J
alpha-Chlordane	**41**	50	ug/kg	EPA 8081A	J
4,4´-DDE	**37**	50	ug/kg	EPA 8081A	J
Dieldrin	**34**	50	ug/kg	EPA 8081A	J
Endrin	**9.2**	50	ug/kg	EPA 8081A	J
4,4´-DDD	**42**	50	ug/kg	EPA 8081A	J
4,4´-DDT	**74**	50	ug/kg	EPA 8081A	

Sample ID: 371006-168 **Laboratory ID:** T161490-25

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**0.99**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**1.2**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371006-169 **Laboratory ID:** T161490-26

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**2.1**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**2.7**	5.0	ug/kg	EPA 8081A	J
4,4´-DDE	**1.5**	5.0	ug/kg	EPA 8081A	J
4,4´-DDD	**0.48**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371006-170 **Laboratory ID:** T161490-27

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**2.1**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**3.8**	5.0	ug/kg	EPA 8081A	J
Dieldrin	**1.3**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371006-171 **Laboratory ID:** T161490-28

Analyte	Result	Reporting Limit	Units	Method	Notes
Heptachlor epoxide	**0.68**	5.0	ug/kg	EPA 8081A	J

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Sample ID: 371006-171 **Laboratory ID:** T161490-28

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**13**	5.0	ug/kg	EPA 8081A	
alpha-Chlordane	**19**	5.0	ug/kg	EPA 8081A	
4,4´-DDE	**28**	5.0	ug/kg	EPA 8081A	
Dieldrin	**4.4**	5.0	ug/kg	EPA 8081A	J
4,4´-DDT	**12**	5.0	ug/kg	EPA 8081A	

Sample ID: 371006-172 **Laboratory ID:** T161490-29

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**1.8**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**3.3**	5.0	ug/kg	EPA 8081A	J
4,4´-DDD	**0.39**	5.0	ug/kg	EPA 8081A	J
Endosulfan sulfate	**0.50**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371006-173 **Laboratory ID:** T161490-30

Analyte	Result	Reporting Limit	Units	Method	Notes
Heptachlor epoxide	**0.49**	5.0	ug/kg	EPA 8081A	J
gamma-Chlordane	**1.0**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**3.0**	5.0	ug/kg	EPA 8081A	J
4,4´-DDE	**5.1**	5.0	ug/kg	EPA 8081A	
Dieldrin	**3.9**	5.0	ug/kg	EPA 8081A	J
Endrin	**0.48**	5.0	ug/kg	EPA 8081A	J
4,4´-DDD	**1.8**	5.0	ug/kg	EPA 8081A	J
4,4´-DDT	**3.0**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371006-174 **Laboratory ID:** T161490-31

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**1.2**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**1.5**	5.0	ug/kg	EPA 8081A	J
4,4´-DDE	**2.0**	5.0	ug/kg	EPA 8081A	J

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Sample ID: 371006-175 **Laboratory ID:** T161490-32

Analyte	Result	Reporting Limit	Units	Method	Notes
alpha-Chlordane	**0.80**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371006-176 **Laboratory ID:** T161490-33

Analyte	Result	Reporting Limit	Units	Method	Notes
Heptachlor epoxide	**0.50**	5.0	ug/kg	EPA 8081A	J
gamma-Chlordane	**3.7**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**5.1**	5.0	ug/kg	EPA 8081A	
Dieldrin	**0.48**	5.0	ug/kg	EPA 8081A	J
4,4´-DDD	**1.1**	5.0	ug/kg	EPA 8081A	J

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371006-004

T161490-01(Soil)

SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*87.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl			*76.8 %*		*35-140*	"	"	"	"	

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371006-007

T161490-02(Soil)

SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*90.1 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl			*67.3 %*		*35-140*	"	"	"	"	

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371006-008

T161490-03(Soil)

SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*92.6 %*		*35-140*		*"*	*"*	*"*	*"*
Surrogate: Decachlorobiphenyl			*70.3 %*		*35-140*		*"*	*"*	*"*	*"*

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371006-029

T161490-04(Soil)

SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	**9.0**	3.7	10	"	"	"	"	"	"	J
Surrogate: Tetrachloro-meta-xylene			*102 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl			*61.2 %*		*35-140*	"	"	"	"	

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371006-051

T161490-05(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**19**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**480**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*106 %*	*65-135*		*"*	*"*	*"*	*"*	

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371006-054

T161490-06(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**52**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**2800**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*94.3 %*	*65-135*		*"*	*"*	*"*	*"*	

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Enthalpy Analytical, Inc.	Project: 371006 PO# 371006	
806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-057

T161490-07(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**66**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**49**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*96.1 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*76.8 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*67.3 %*	*35-140*		*"*	*"*	*"*	*"*	

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806 N. Batavia	Project Number: 371006	**Reported:**
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371006-069

T161490-08(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**48**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**52**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*92.6 %*	*65-135*		*"*	*"*	*"*	*"*	

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Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-070

T161490-09(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C13-C28 (DRO)	**97**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**39**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*106 %*	*65-135*		*"*	*"*	*"*	*"*	

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371006-075

T161490-10(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**96**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**28**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*100 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*99.3 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*86.2 %*	*35-140*		*"*	*"*	*"*	*"*	

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371006-076

T161490-11(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**47**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**83**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*98.7 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*106 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*82.1 %*	*35-140*		*"*	*"*	*"*	*"*	

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371006-079

T161490-12(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**68**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**68**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*106 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*86.3 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*51.2 %*	*35-140*		*"*	*"*	*"*	*"*	

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371006-080

T161490-13(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**56**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**79**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*106 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*103 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*65.0 %*	*35-140*		*"*	*"*	*"*	*"*	

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371006-083

T161490-14(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**48**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**92**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*101 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	**4.9**	3.7	10	"	"	"	"	"	"	J
Surrogate: Tetrachloro-meta-xylene			*106 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*71.8 %*	*35-140*		*"*	*"*	*"*	*"*	

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371006-088

T161490-15(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**47**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**8.4**	6.2	10	"	"	"	"	"	"	J
Surrogate: p-Terphenyl			*112 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*188 %*	*35-140*		*"*	*"*	*"*	*"*	*S-GC*
Surrogate: Decachlorobiphenyl			*95.1 %*	*35-140*		*"*	*"*	*"*	*"*	

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371006-097

T161490-16(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*102 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070829	07/08/16	07/18/16	EPA 8082	O-05
PCB-1221	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1232	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1242	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1248	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1254	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1260	ND	3.7	10	"	"	"	"	"	"	O-05
Surrogate: Tetrachloro-meta-xylene			*116 %*	*35-140*		*"*	*"*	*"*	*"*	*O-05*
Surrogate: Decachlorobiphenyl			*144 %*	*35-140*		*"*	*"*	*"*	*"*	*O-05, S-GC*

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371006-100

T161490-17(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*112 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070829	07/08/16	07/18/16	EPA 8082	O-05
PCB-1221	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1232	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1242	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1248	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1254	ND	3.7	10	"	"	"	"	"	"	O-05
PCB-1260	ND	3.7	10	"	"	"	"	"	"	O-05
Surrogate: Tetrachloro-meta-xylene			*99.3 %*	*35-140*		*"*	*"*	*"*	*"*	*O-05*
Surrogate: Decachlorobiphenyl			*130 %*	*35-140*		*"*	*"*	*"*	*"*	*O-05*

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806 N. Batavia	Project Number: 371006	**Reported:**
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371006-113

T161490-18(Soil)

SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*106 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl			*80.8 %*		*35-140*	"	"	"	"	

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371006-116

T161490-19(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**77**	6.2	10	mg/kg	1	6070719	07/07/16	07/07/16	EPA 8015C	
C29-C40 (MORO)	**390**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*96.5 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	**7.1**	3.7	10	"	"	"	"	"	"	J
Surrogate: Tetrachloro-meta-xylene			*110 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*46.9 %*	*35-140*		*"*	*"*	*"*	*"*	

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371006-126

T161490-20(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070715	07/07/16	07/15/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	**9.6**	3.7	10	"	"	"	"	"	"	J
Surrogate: Tetrachloro-meta-xylene			*95.8 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*64.8 %*	*35-140*		"	"	"	"	

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Enthalpy Analytical, Inc.	Project: 371006 PO# 371006	
806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-164

T161490-21(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	0.42	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	0.53	5.0	"	"	"	"	"	"	
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*83.1 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*45.1 %*	*35-140*		*"*	*"*	*"*	*"*	

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Enthalpy Analytical, Inc.	Project: 371006 PO# 371006	
806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-165

T161490-22(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**2.9**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**3.9**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	**18**	1.5	5.0	"	"	"	"	"	"	
Dieldrin	**0.69**	0.47	5.0	"	"	"	"	"	"	J
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*102 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*35.0 %*	*35-140*		"	"	"	"	*S-GC*

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-166

T161490-23(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**4.6**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**3.8**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*91.9 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*53.6 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-167

T161490-24(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	3.3	50	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	4.1	50	"	"	"	"	"	"	
beta-BHC	ND	7.1	50	"	"	"	"	"	"	
delta-BHC	ND	6.7	50	"	"	"	"	"	"	
Heptachlor	ND	5.1	50	"	"	"	"	"	"	
Aldrin	ND	4.7	50	"	"	"	"	"	"	
gamma-Chlordane	**42**	4.2	50	"	"	"	"	"	"	J
alpha-Chlordane	**41**	5.2	50	"	"	"	"	"	"	J
Endosulfan I	ND	4.9	50	"	"	"	"	"	"	
4,4´-DDE	**37**	15	50	"	"	"	"	"	"	J
Dieldrin	**34**	4.7	50	"	"	"	"	"	"	J
Endrin	**9.2**	4.2	50	"	"	"	"	"	"	J
4,4´-DDD	**42**	3.5	50	"	"	"	"	"	"	J
Endosulfan II	ND	5.6	50	"	"	"	"	"	"	
4,4´-DDT	**74**	24	50	"	"	"	"	"	"	
Endrin aldehyde	ND	7.0	50	"	"	"	"	"	"	
Endosulfan sulfate	ND	4.6	50	"	"	"	"	"	"	
Methoxychlor	ND	4.5	100	"	"	"	"	"	"	
Endrin ketone	ND	4.4	50	"	"	"	"	"	"	
Toxaphene	ND	580	2000	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*1090 %*		*35-140*	"	"	"	"	*S-04*
Surrogate: Decachlorobiphenyl			*750 %*		*35-140*	"	"	"	"	*S-04*

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-168

T161490-25(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**0.99**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**1.2**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*121 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*76.4 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: 371006	**Reported:**
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371006-169

T161490-26(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**2.1**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**2.7**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	**1.5**	1.5	5.0	"	"	"	"	"	"	J
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	**0.48**	0.35	5.0	"	"	"	"	"	"	J
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*119 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl			*69.5 %*		*35-140*	"	"	"	"	

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-170

T161490-27(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**2.1**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**3.8**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	**1.3**	0.47	5.0	"	"	"	"	"	"	J
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*93.2 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*56.9 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-171

T161490-28(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	**0.68**	0.46	5.0	"	"	"	"	"	"	J
gamma-Chlordane	**13**	0.42	5.0	"	"	"	"	"	"	
alpha-Chlordane	**19**	0.53	5.0	"	"	"	"	"	"	
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	**28**	1.5	5.0	"	"	"	"	"	"	
Dieldrin	**4.4**	0.47	5.0	"	"	"	"	"	"	J
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	**12**	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*110 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*35.5 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-172

T161490-29(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Organochlorine Pesticides by EPA Method 8081A										
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**1.8**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**3.3**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	**0.39**	0.35	5.0	"	"	"	"	"	"	J
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	**0.50**	0.47	5.0	"	"	"	"	"	"	J
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*114 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*52.4 %*	*35-140*		"	"	"	"	

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Enthalpy Analytical, Inc.	Project: 371006 PO# 371006	
806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-173

T161490-30(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	**0.49**	0.46	5.0	"	"	"	"	"	"	J
gamma-Chlordane	**1.0**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**3.0**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	**5.1**	1.5	5.0	"	"	"	"	"	"	
Dieldrin	**3.9**	0.47	5.0	"	"	"	"	"	"	J
Endrin	**0.48**	0.43	5.0	"	"	"	"	"	"	J
4,4´-DDD	**1.8**	0.35	5.0	"	"	"	"	"	"	J
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	**3.0**	2.5	5.0	"	"	"	"	"	"	J
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*101 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*50.8 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-174

T161490-31(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**1.2**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**1.5**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	**2.0**	1.5	5.0	"	"	"	"	"	"	J
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*113 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*22.9 %*	*35-140*		"	"	"	"	*S-GC*

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-175

T161490-32(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	0.42	5.0	"	"	"	"	"	"	
alpha-Chlordane	**0.80**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*119 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*30.4 %*	*35-140*		*"*	*"*	*"*	*"*	*S-GC*

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

371006-176

T161490-33(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070720	07/07/16	07/12/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	**0.50**	0.46	5.0	"	"	"	"	"	"	J
gamma-Chlordane	**3.7**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**5.1**	0.53	5.0	"	"	"	"	"	"	
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	**0.48**	0.47	5.0	"	"	"	"	"	"	J
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	**1.1**	0.35	5.0	"	"	"	"	"	"	J
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*118 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*40.1 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070719 - EPA 3550B GC											
Blank (6070719-BLK1)					Prepared & Analyzed: 07/07/16						
Surrogate: p-Terphenyl	*101*			*mg/kg*	*98.8*		*102*	*65-135*			
C13-C28 (DRO)	ND	6.2	10	"							
C29-C40 (MORO)	ND	6.2	10	"							
LCS (6070719-BS1)					Prepared & Analyzed: 07/07/16						
Surrogate: p-Terphenyl	*97.5*			*mg/kg*	*99.9*		*97.6*	*65-135*			
C13-C28 (DRO)	1200	6.2	10	"	999		123	75-125			
LCS Dup (6070719-BSD1)					Prepared & Analyzed: 07/07/16						
Surrogate: p-Terphenyl	*98.9*			*mg/kg*	*99.7*		*99.2*	*65-135*			
C13-C28 (DRO)	1200	6.2	10	"	997		122	75-125	1.22	20	

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070720 - EPA 3550 ECD/GCMS											
Blank (6070720-BLK1)					Prepared: 07/07/16 Analyzed: 07/12/16						
Surrogate: Tetrachloro-meta-xylene	*10.1*			*ug/kg*	*9.94*		*102*	*35-140*			
Surrogate: Decachlorobiphenyl	*10.1*			*"*	*9.94*		*102*	*35-140*			
alpha-BHC	ND	0.33	5.0	"							
gamma-BHC (Lindane)	ND	0.42	5.0	"							
beta-BHC	ND	0.71	5.0	"							
delta-BHC	ND	0.67	5.0	"							
Heptachlor	ND	0.51	5.0	"							
Aldrin	ND	0.47	5.0	"							
Heptachlor epoxide	ND	0.46	5.0	"							
gamma-Chlordane	ND	0.42	5.0	"							
alpha-Chlordane	ND	0.53	5.0	"							
Endosulfan I	ND	0.50	5.0	"							
4,4´-DDE	ND	1.5	5.0	"							
Dieldrin	ND	0.47	5.0	"							
Endrin	ND	0.43	5.0	"							
4,4´-DDD	ND	0.35	5.0	"							
Endosulfan II	ND	0.56	5.0	"							
4,4´-DDT	ND	2.5	5.0	"							
Endrin aldehyde	ND	0.70	5.0	"							
Endosulfan sulfate	ND	0.47	5.0	"							
Methoxychlor	ND	0.45	10	"							
Endrin ketone	ND	0.45	5.0	"							
Toxaphene	ND	58	200	"							
LCS (6070720-BS1)					Prepared: 07/07/16 Analyzed: 07/12/16						
Surrogate: Tetrachloro-meta-xylene	*8.44*			*ug/kg*	*9.87*		*85.5*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.70*			*"*	*9.87*		*78.0*	*35-140*			
gamma-BHC (Lindane)	42.2	0.42	5.0	"	39.5		107	40-120			

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070720 - EPA 3550 ECD/GCMS											
LCS (6070720-BS1)					Prepared: 07/07/16 Analyzed: 07/12/16						
Heptachlor	37.2	0.51	5.0	ug/kg	39.5		94.2	40-120			
Aldrin	35.8	0.47	5.0	"	39.5		90.7	40-120			
Dieldrin	40.7	0.47	5.0	"	39.5		103	40-120			
Endrin	35.6	0.43	5.0	"	39.5		90.1	40-120			
4,4´-DDT	29.5	2.5	5.0	"	39.5		74.6	33-147			
LCS Dup (6070720-BSD1)					Prepared: 07/07/16 Analyzed: 07/12/16						
Surrogate: Tetrachloro-meta-xylene	*10.9*			*ug/kg*	*9.96*		*109*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.29*			*"*	*9.96*		*83.2*	*35-140*			
gamma-BHC (Lindane)	42.0	0.42	5.0	"	39.8		105	40-120	1.35	30	
Heptachlor	40.0	0.51	5.0	"	39.8		100	40-120	6.27	30	
Aldrin	36.0	0.47	5.0	"	39.8		90.4	40-120	0.300	30	
Dieldrin	39.9	0.47	5.0	"	39.8		100	40-120	2.91	30	
Endrin	38.2	0.43	5.0	"	39.8		95.9	40-120	6.18	30	
4,4´-DDT	32.5	2.5	5.0	"	39.8		81.6	33-147	8.90	30	

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806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070715 - EPA 3550 ECD/GCMS											
Blank (6070715-BLK1)					Prepared: 07/07/16 Analyzed: 07/15/16						
Surrogate: Tetrachloro-meta-xylene	*6.63*			*ug/kg*	*9.88*		*67.1*	*35-140*			
Surrogate: Decachlorobiphenyl	*6.76*			*"*	*9.88*		*68.4*	*35-140*			
PCB-1016	ND	3.7	10	"							
PCB-1221	ND	3.7	10	"							
PCB-1232	ND	3.7	10	"							
PCB-1242	ND	3.7	10	"							
PCB-1248	ND	3.7	10	"							
PCB-1254	ND	3.7	10	"							
PCB-1260	ND	3.7	10	"							
LCS (6070715-BS1)					Prepared: 07/07/16 Analyzed: 07/15/16						
Surrogate: Tetrachloro-meta-xylene	*8.79*			*ug/kg*	*9.94*		*88.4*	*35-140*			
Surrogate: Decachlorobiphenyl	*6.50*			*"*	*9.94*		*65.4*	*35-140*			
PCB-1016	124	3.7	10	"	99.4		125	40-130			
PCB-1260	109	3.7	10	"	99.4		110	40-130			
LCS Dup (6070715-BSD1)					Prepared: 07/07/16 Analyzed: 07/15/16						
Surrogate: Tetrachloro-meta-xylene	*9.78*			*ug/kg*	*9.97*		*98.1*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.66*			*"*	*9.97*		*76.8*	*35-140*			
PCB-1016	106	3.7	10	"	99.7		106	40-130	15.6	30	
PCB-1260	112	3.7	10	"	99.7		112	40-130	2.73	30	
Batch 6070829 - EPA 3550 ECD/GCMS											
Blank (6070829-BLK1)					Prepared: 07/08/16 Analyzed: 07/18/16						
Surrogate: Tetrachloro-meta-xylene	*13.2*			*ug/kg*	*9.98*		*132*	*35-140*			
Surrogate: Decachlorobiphenyl	*14.4*			*"*	*9.98*		*144*	*35-140*			*S-GC*
PCB-1016	ND	3.7	10	"							
PCB-1221	ND	3.7	10	"							
PCB-1232	ND	3.7	10	"							

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070829 - EPA 3550 ECD/GCMS											
Blank (6070829-BLK1)					Prepared: 07/08/16 Analyzed: 07/18/16						
PCB-1242	ND	3.7	10	ug/kg							
PCB-1248	ND	3.7	10	"							
PCB-1254	ND	3.7	10	"							
PCB-1260	ND	3.7	10	"							
LCS (6070829-BS1)					Prepared: 07/08/16 Analyzed: 07/18/16						
Surrogate: Tetrachloro-meta-xylene	*11.9*			*ug/kg*	*9.98*		*119*	*35-140*			
Surrogate: Decachlorobiphenyl	*14.1*			*"*	*9.98*		*141*	*35-140*			*S-GC*
PCB-1016	117	3.7	10	"	99.8		117	40-130			
PCB-1260	125	3.7	10	"	99.8		126	40-130			
Matrix Spike (6070829-MS1)		**Source: T161503-01**			Prepared: 07/08/16 Analyzed: 07/18/16						
Surrogate: Tetrachloro-meta-xylene	*9.94*			*ug/kg*	*9.99*		*99.5*	*35-140*			
Surrogate: Decachlorobiphenyl	*11.1*			*"*	*9.99*		*111*	*35-140*			
PCB-1016	112	3.7	10	"	99.9	ND	112	40-130			
PCB-1260	136	3.7	10	"	99.9	ND	136	40-130			QM-07
Matrix Spike Dup (6070829-MSD1)		**Source: T161503-01**			Prepared: 07/08/16 Analyzed: 07/18/16						
Surrogate: Tetrachloro-meta-xylene	*10.6*			*ug/kg*	*9.94*		*107*	*35-140*			
Surrogate: Decachlorobiphenyl	*13.0*			*"*	*9.94*		*131*	*35-140*			
PCB-1016	118	3.7	10	"	99.4	ND	119	40-130	5.82	30	
PCB-1260	230	3.7	10	"	99.4	ND	232	40-130	51.8	30	QM-07

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Tashesh

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Enthalpy Analytical, Inc.	Project: 371006 PO# 371006	
806 N. Batavia	Project Number: 371006	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/18/16 17:45

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
O-05	This sample was extracted outside of the EPA recommended holding time.
J	Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

ENTHALPY analytical, inc.

Page: 1 of 4

Date: 7/6/2016

Lab Number: 7161490

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630	Project Information:	Contact: Ranjit Clarke
		371006	Email report to: ranjit.clarke@enthalpy.com incomingreports@associatedlabs.com
GSO:	X	FedEx:	
Priority:		Ground: X	PO # : 371006 Sampled By:
			Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/07/16!!!
"J" FLAGS REQUIRED

5.3

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 8015B - Diesel / Motor Oil	EPA 8082 - PCBs
1	371006-004 01	6/23/2016	6:58	S	1	NA		X
2	371006-007 02	6/23/2016	7:05	S	1	NA		X
3	371006-008 03	6/23/2016	7:05	S	1	NA		X
4	371006-029 04	6/23/2016	7:40	S	1	NA		X
5	371006-051 05	6/23/2016	8:32	S	1	NA	X	
6	371006-054 06	6/23/2016	8:38	S	1	NA	X	
7	371006-057 07	6/23/2016	8:30	S	1	NA	X	X
8	371006-069 08	6/23/2016	8:52	S	1	NA	X	
9	371006-070 09	6/23/2016	8:52	S	1	NA	X	
10	371006-075 10	6/23/2016	10:17	S	1	NA	X	X

Matrix: **A** = Air, **DW** = Drinking Water, **FL** = Food Liquid, **FS** = Food Solid, **L** = Liquid, **PP** = Pure Product, **WW** = Waste Water, **S** = Solid, **W** = Water, **WP** = Wipe, **O** = Other, **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$, **2** = HCl, **3** = HNO_3, **4** = H_2SO_4, **5** = NaOH, **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Dorning	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/6/16 Time: 1725	Date: 7-6-16 Time: 17-25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

ENTHALPY analytical, inc.

Page: 2 of 4

Date: 7/6/2016

Lab Number: 7161490

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630		
GSO:	X	FedEx:	
Priority:		Ground:	X

Project Information: 371006

PO # : 371006

Sampled By:

Contact: Ranjit Clarke

Email report to: ranjit.clarke@enthalpy.com incomingreports@associatedlabs.com

Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/07/16!!!
"J" FLAGS REQUIRED

5.3

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 8015B - Diesel / Motor Oil	EPA 8082 - PCBs									
1	371006-076 11	6/23/2016	10:10	S	1	NA	X	X									
2	371006-079 12	6/23/2016	10:16	S	1	NA	X	X									
3	371006-080 13	6/23/2016	10:16	S	1	NA	X	X									
4	371006-083 14	6/23/2016	10:20	S	1	NA	X	X									
5	371006-088 15	6/23/2016	10:26	S	1	NA	X	X									
6	371006-097 16	6/23/2016	10:54	S	1	NA	X										
7	371006-100 17	6/23/2016	11:16	S	1	NA	X										
8	371006-113 18	6/23/2016	12:47	S	1	NA		X									
9	371006-116 19	6/23/2016	12:51	S	1	NA	X	X									
10	371006-126 20	6/23/2016	13:16	S	1	NA		X									

Matrix: **A** = Air **DW** = Drinking Water **FL** = Food Liquid **FS** = Food Solid **L** = Liquid **PP** = Pure Product **WW** = Waste Water **S** = Solid **W** = Water **WP** = Wipe **O** = Other **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$ **2** = HCl **3** = HNO_3 **4** = H_2SO_4 **5** = NaOH **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Dorsey	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/6/16 Time: 1725	Date: 7-6-16 Time: 17:25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

ENTHALPY analytical, inc.

Page: 3 of 4

Date: 7/6/2016

Lab Number: 716490

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630		
GSO:	X	FedEx:	
Priority:		Ground:	X

Project Information: 371006

Contact: Ranjit Clarke

Email report to: ranjit.clarke@enthalpy.com incomingreports@associatedlabs.com

PO # : 371006

Sampled By:

Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/07/16!!!
"J" FLAGS REQUIRED
See comments section for samples to composite (samples 21-33).

5.3

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 808A- OCPs											
1	371006-164 21	6/23/2016	-	S	1	NA	X						34	35	36	37	SS8-0.5,SS9-0.5,SS10-0.5,SS11-0.5
2	371006-165 22	6/23/2016	-	S	1	NA	X						38	39	40	41	SS12-0.5,SS13-0.5,SS14-0.5,SS15-0.5
3	371006-166 23	6/23/2016	-	S	1	NA	X						42	43	44	45	SS16-0.5,SS17-0.5,SS18-0.5,SS19-0.5
4	371006-167 24	6/23/2016	-	S	1	NA	X						46	47	48	49	SS20-0.5,SS21-0.5,SS22-0.5,SS23-0.5
5	371006-168 25	6/23/2016	-	S	1	NA	X						50	61	52	53	SS51-0.5,SS52-0.5,SS53-0.5,SS67-0.5
6	371006-169 26	6/23/2016	-	S	1	NA	X						54	55	56	57	SS54-0.5,SS55-0.5,SS56-0.5,SS68-0.5
7	371006-170 27	6/23/2016	-	S	1	NA	X						58	59	60	61	SS69-0.5,SS70-0.5,SS71-0.5,SS98-0.5
8	371006-171 28	6/23/2016	-	S	1	NA	X						62	63	64	65	SS73-0.5,SS74-0.5,SS75-0.5,SS76-0.5
9	371006-172 29	6/23/2016	-	S	1	NA	X						66	67	68	69	SS77-0.5,SS78-0.5,SS79-0.5,SS80-0.5
10	371006-173 30	6/23/2016	-	S	1	NA	X						70	71	72	73	SS85-0.5,SS86-0.5,SS87-0.5,SS88-0.5

Matrix: **A** = Air **DW** = Drinking Water **FL** = Food Liquid **FS** = Food Solid **L** = Liquid **PP** = Pure Product **WW** = Waste Water **S** = Solid **W** = Water **WP** = Wipe **O** = Other **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$ **2** = HCl **3** = HNO_3 **4** = H_2SO_4 **5** = NaOH **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Dorning	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/6/16 Time: 1725	Date: 7-6-16 Time: 17:25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

Page: 4 of 4

Date: 7/6/2016

Lab Number: 7164490

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630	Project Information:	Contact: Ranjit Clarke
		371006	Email report to: ranjit.clarke@enthalpy.com incomingreports@associatedlabs.com
GSO: X	FedEx:		
Priority:	Ground: X	PO # : 371006 Sampled By:	Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/07/16!!!
"J" FLAGS REQUIRED
See comments section for samples to composite (samples 21-33).

5.3

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 8081A - OCPs	EPA 8082 - PCBs									
1	371006-174 31	6/23/2016	-	S	1	NA	X							74	75	76	SS89-0.5,SS90-0.5,SS92-0.5
2	371006-175 32	6/23/2016	-	S	1	NA	X								77	78	SS98-0.5,SS99-0.5
3	371006-176 33	6/23/2016	-	S	1	NA	X						79	80	81	82	SS77-0.5DUP,SS78-0.5DUP,SS79-0.5DUP,SS80-0.5DUP
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Matrix: **A** = Air **DW** = Drinking Water **FL** = Food Liquid **FS** = Food Solid **L** = Liquid **PP** = Pure Product **WW** = Waste Water **S** = Solid **W** = Water **WP** = Wipe **O** = Other **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$ **2** = HCl **3** = HNO_3 **4** = H_2SO_4 **5** = NaOH **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Rodriguez	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/8/16 Time: 1725	Date: 7-6-16 Time: 17:25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7161490

Client Name: ENTHALPY

Project: 371006 PO# 371006

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____

Date/Time Courier Received: _____

Lab Received by: SUNNY

Date/Time Lab Received: 7.6.16 / 17:25

Total number of coolers received: 2

Temperature:	Cooler #1 5.5	°C +/- the CF (- 0.2°C)	= 5.3	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C)	=	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C)	=	°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☐ Yes	☒ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☐ **Yes**	☒ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 7.6.16

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # T161490

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking/Damaged
  - ☐ Other:
- **CUSTODY SEALS**
  - ☐ None
  - ☐ Not Intact
- **TEMPERATURE (Temp criteria = ≤ 6°C)**
  - ☐ Cooler/Sample Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Broken
  - ☐ Extra ☐ Missing
- **LABELS**
  - ☐ Not the same sample ID / info as on the COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
- **SAMPLES**
  - ☒ Samples **NOT RECEIVED** but listed on COC
  - ☒ Samples received but **NOT LISTED** on COC
  - ☐ Logged based on Label Information and not COC
  - ☐ Logged according to Work Plan and not COC
  - ☐ Logged in, **ON HOLD** until further notice
  - ☐ Insufficient quantities for analysis
  - ☐ Improper container used
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Not preserved/Improper preservative used
  - ☐ Without Labels, no information on containers
  - ☐ Other

Comments: SAMPLES (SS9-0.5, SS53-0.5, SS98-0.5) WAS LISTED BUT NOT RECEIVED AND SAMPLES (SS72.05, SS12-0.5 DUP, SS9-1.5) WAS RECEIVED BUT NOT LISTED.

Sample fractioning only if broken container impacts more than one cooler

Fraction								Preser.
VOA								

ENTHALPY ID NUMBER

SS72-0.5 : 371006-110

SS12-0.5 DUP : 371006-030

SS9-1.5 : 371006-049

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

Sunny

From: Ranjit Clarke [Ranjit.Clarke@enthalpy.com]
Sent: Thursday, July 07, 2016 10:02 AM
To: sunny@sunstarlabs.com; Nicole
Subject: Composite samples: LR 371006
Importance: High

Sunny,

Per our conversation this morning:

1) Please go ahead and prepare composite sample COMP2 without "SS9-0.5".
2) Please go ahead and prepare composite sample COMP13 without "SS53-0.5".
3) Regarding missing sample "SS98-0.5", please double check the samples as that sample should be there (sample 371006-069). If not, I may have you go ahead and use sample "SS98-0.5DUP" (371006-070) instead. Please call or e-mail me first before doing this.

Thanks,

Ranjit

In accordance with our paperless initiative, we are no longer mailing or faxing reports by default. If you require a hard copy, please inform your Project Manager.

ENTHALPY
analytical, inc.

Ranjit Clarke
Senior Project Manager
Enthalpy Analytical
806 N Batavia Street, Orange, CA 92868
O: 714-771-9906 / M:657-274-9864 / F: 714-771-9933
Ranjit.Clarke@enthalpy.com

CONFIDENTIALITY NOTICE: The contents of this email message and any attachments are intended solely for the addressee(s) and may contain confidential, proprietary and/or privileged information and may be legally protected from disclosure. If you are not the intended recipient of this message or their agent, or if this message has been addressed to you in error, please immediately alert the sender by reply email and then delete this message and any attachments and the reply from your system. If you are not the intended recipient, you are hereby notified that any disclosure, use, dissemination, copying, or storage of this message or its attachments is strictly prohibited.

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4855 / Virus Database: 4477/12572 - Release Date: 07/07/16

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

ENTHALPY analytical, inc.

Page: 1 of 4

Date: 7/6/2016

Lab Number: 7161490

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630	Project Information:	Contact: Ranjit Clarke
		371006	Email report to: ranjit.clarke@enthalpy.com incomingreports@associatedlabs.com
GSO:	X	FedEx:	
Priority:		Ground: X	PO # : 371006 Sampled By:
			Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/07/16!!!
"J" FLAGS REQUIRED

5.3

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 8015B - Diesel / Motor Oil	EPA 8082 - PCBs
1	371006-004 01	6/23/2016	6:58	S	1	NA		X
2	371006-007 02	6/23/2016	7:05	S	1	NA		X
3	371006-008 03	6/23/2016	7:05	S	1	NA		X
4	371006-029 04	6/23/2016	7:40	S	1	NA		X
5	371006-051 05	6/23/2016	8:32	S	1	NA	X	
6	371006-054 06	6/23/2016	8:38	S	1	NA	X	
7	371006-057 07	6/23/2016	8:30	S	1	NA	X	X
8	371006-069 08	6/23/2016	8:52	S	1	NA	X	
9	371006-070 09	6/23/2016	8:52	S	1	NA	X	
10	371006-075 10	6/23/2016	10:17	S	1	NA	X	X

Matrix: **A** = Air, **DW** = Drinking Water, **FL** = Food Liquid, **FS** = Food Solid, **L** = Liquid, **PP** = Pure Product, **WW** = Waste Water, **S** = Solid, **W** = Water, **WP** = Wipe, **O** = Other, **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$, **2** = HCl, **3** = HNO_3, **4** = H_2SO_4, **5** = NaOH, **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Dorning	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/6/16 Time: 1725	Date: 7-6-16 Time: 17-25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

ENTHALPY analytical, inc.

Page: 2 of 4

Date: 7/6/2016

Lab Number: 7161490

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630		
GSO:	X	FedEx:	
Priority:		Ground:	X

Project Information: 371006

PO # : 371006

Sampled By:

Contact: Ranjit Clarke

Email report to: ranjit.clarke@enthalpy.com incomingreports@associatedlabs.com

Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/07/16!!!
"J" FLAGS REQUIRED

5.3

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 8015B - Diesel / Motor Oil	EPA 8082 - PCBs									
1	371006-076 11	6/23/2016	10:10	S	1	NA	X	X									
2	371006-079 12	6/23/2016	10:16	S	1	NA	X	X									
3	371006-080 13	6/23/2016	10:16	S	1	NA	X	X									
4	371006-083 14	6/23/2016	10:20	S	1	NA	X	X									
5	371006-088 15	6/23/2016	10:26	S	1	NA	X	X									
6	371006-097 16	6/23/2016	10:54	S	1	NA	X										
7	371006-100 17	6/23/2016	11:16	S	1	NA	X										
8	371006-113 18	6/23/2016	12:47	S	1	NA		X									
9	371006-116 19	6/23/2016	12:51	S	1	NA	X	X									
10	371006-126 20	6/23/2016	13:16	S	1	NA		X									

Matrix: **A** = Air **DW** = Drinking Water **FL** = Food Liquid **FS** = Food Solid **L** = Liquid **PP** = Pure Product **WW** = Waste Water **S** = Solid **W** = Water **WP** = Wipe **O** = Other **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$ **2** = HCl **3** = HNO_3 **4** = H_2SO_4 **5** = NaOH **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Dorsey	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/6/16 Time: 1725	Date: 7-6-16 Time: 17:25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

ENTHALPY analytical, inc.

Page: 3 of 4

Date: 7/6/2016

Lab Number: 716490

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630		
GSO:	X	FedEx:	
Priority:		Ground:	X

Project Information: 371006

Contact: Ranjit Clarke

Email report to: ranjit.clarke@enthalpy.com incomingreports@associatedlabs.com

PO # : 371006

Sampled By:

Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/07/16!!!
"J" FLAGS REQUIRED
See comments section for samples to composite (samples 21-33).

5.3

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 808A- OCPs											
1	371006-164 21	6/23/2016	-	S	1	NA	X						34	35	36	37	SS8-0.5,SS9-0.5,SS10-0.5,SS11-0.5
2	371006-165 22	6/23/2016	-	S	1	NA	X						38	39	40	41	SS12-0.5,SS13-0.5,SS14-0.5,SS15-0.5
3	371006-166 23	6/23/2016	-	S	1	NA	X						42	43	44	45	SS16-0.5,SS17-0.5,SS18-0.5,SS19-0.5
4	371006-167 24	6/23/2016	-	S	1	NA	X						46	47	48	49	SS20-0.5,SS21-0.5,SS22-0.5,SS23-0.5
5	371006-168 25	6/23/2016	-	S	1	NA	X						50	61	52	53	SS51-0.5,SS52-0.5,SS53-0.5,SS67-0.5
6	371006-169 26	6/23/2016	-	S	1	NA	X						54	55	56	57	SS54-0.5,SS55-0.5,SS56-0.5,SS68-0.5
7	371006-170 27	6/23/2016	-	S	1	NA	X						58	59	60	61	SS69-0.5,SS70-0.5,SS71-0.5,SS98-0.5
8	371006-171 28	6/23/2016	-	S	1	NA	X						62	63	64	65	SS73-0.5,SS74-0.5,SS75-0.5,SS76-0.5
9	371006-172 29	6/23/2016	-	S	1	NA	X						66	67	68	69	SS77-0.5,SS78-0.5,SS79-0.5,SS80-0.5
10	371006-173 30	6/23/2016	-	S	1	NA	X						70	71	72	73	SS85-0.5,SS86-0.5,SS87-0.5,SS88-0.5

Matrix: **A** = Air **DW** = Drinking Water **FL** = Food Liquid **FS** = Food Solid **L** = Liquid **PP** = Pure Product **WW** = Waste Water **S** = Solid **W** = Water **WP** = Wipe **O** = Other **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$ **2** = HCl **3** = HNO_3 **4** = H_2SO_4 **5** = NaOH **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Dorning	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/6/16 Time: 1725	Date: 7-6-16 Time: 17:25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ENTHALPY ANALYTICAL

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CHAIN OF CUSTODY RECORD

Page: 4 of 4

Date: 7/6/2016

Lab Number: 7164490

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630	Project Information:	Contact: Ranjit Clarke
		371006	Email report to: ranjit.clarke@enthalpy.com incomingreports@associatedlabs.com
GSO: X	FedEx:		
Priority:	Ground: X	PO # : 371006 Sampled By:	Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/07/16!!!
"J" FLAGS REQUIRED
See comments section for samples to composite (samples 21-33).

5.3

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 8081A - OCPs	EPA 8082 - PCBs									
1	371006-174 31	6/23/2016	-	S	1	NA	X							74	75	76	SS89-0.5,SS90-0.5,SS92-0.5
2	371006-175 32	6/23/2016	-	S	1	NA	X								77	78	SS98-0.5,SS99-0.5
3	371006-176 33	6/23/2016	-	S	1	NA	X						79	80	81	82	SS77-0.5DUP,SS78-0.5DUP,SS79-0.5DUP,SS80-0.5DUP
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Matrix: **A** = Air **DW** = Drinking Water **FL** = Food Liquid **FS** = Food Solid **L** = Liquid **PP** = Pure Product **WW** = Waste Water **S** = Solid **W** = Water **WP** = Wipe **O** = Other **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$ **2** = HCl **3** = HNO_3 **4** = H_2SO_4 **5** = NaOH **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Rodriguez	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/8/16 Time: 1725	Date: 7-6-16 Time: 17:25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7161490

Client Name: ENTHALPY

Project: 371006 PO# 371006

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____

Date/Time Courier Received: _____

Lab Received by: SUNNY

Date/Time Lab Received: 7.6.16 / 17:25

Total number of coolers received: 2

Temperature:	Cooler #1 5.5	°C +/- the CF (- 0.2°C)	= 5.3	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C)	=	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C)	=	°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☐ Yes	☒ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☐ **Yes**	☒ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 7.6.16

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # T161490

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking/Damaged
  - ☐ Other:
- **CUSTODY SEALS**
  - ☐ None
  - ☐ Not Intact
- **TEMPERATURE (Temp criteria = ≤ 6°C)**
  - ☐ Cooler/Sample Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Broken
  - ☐ Extra ☐ Missing
- **LABELS**
  - ☐ Not the same sample ID / info as on the COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
- **SAMPLES**
  - ☒ Samples **NOT RECEIVED** but listed on COC
  - ☒ Samples received but **NOT LISTED** on COC
  - ☐ Logged based on Label Information and not COC
  - ☐ Logged according to Work Plan and not COC
  - ☐ Logged in, **ON HOLD** until further notice
  - ☐ Insufficient quantities for analysis
  - ☐ Improper container used
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Not preserved/Improper preservative used
  - ☐ Without Labels, no information on containers
  - ☐ Other

Comments: SAMPLES (SS9-0.5, SS53-0.5, SS98-0.5) WAS LISTED BUT NOT RECEIVED AND SAMPLES (SS72.05, SS12-0.5 DUP, SS9-1.5) WAS RECEIVED BUT NOT LISTED.

Sample fractioning only if broken container impacts more than one cooler

Fraction								Preser.
VOA								

ENTHALPY ID NUMBER

SS72-0.5 : 371006-110

SS12-0.5 DUP : 371006-030

SS9-1.5 : 371006-049

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

Sunny

From: Ranjit Clarke [Ranjit.Clarke@enthalpy.com]
Sent: Thursday, July 07, 2016 10:02 AM
To: sunny@sunstarlabs.com; Nicole
Subject: Composite samples: LR 371006
Importance: High

Sunny,

Per our conversation this morning:

1) Please go ahead and prepare composite sample COMP2 without "SS9-0.5".
2) Please go ahead and prepare composite sample COMP13 without "SS53-0.5".
3) Regarding missing sample "SS98-0.5", please double check the samples as that sample should be there (sample 371006-069). If not, I may have you go ahead and use sample "SS98-0.5DUP" (371006-070) instead. Please call or e-mail me first before doing this.

Thanks,

Ranjit

In accordance with our paperless initiative, we are no longer mailing or faxing reports by default. If you require a hard copy, please inform your Project Manager.

ENTHALPY
analytical, inc.

Ranjit Clarke
Senior Project Manager
Enthalpy Analytical
806 N Batavia Street, Orange, CA 92868
O: 714-771-9906 / M:657-274-9864 / F: 714-771-9933
Ranjit.Clarke@enthalpy.com

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No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4855 / Virus Database: 4477/12572 - Release Date: 07/07/16

Nicole

From: Ranjit Clarke [Ranjit.Clarke@enthalpy.com]
Sent: Tuesday, July 12, 2016 1:32 PM
To: Nicole
Subject: LR 371006 - additional analyses

Importance: High

Nicole,

I just received a request from my client to add the following analyses:

371006-097 PCBs
371006-100 PCBs

You can add these two on a 3 day TAT if you need to so you can report all results on Friday.

Thanks,

Ranjit

In accordance with our paperless initiative, we are no longer mailing or faxing reports by default. If you require a hard copy, please inform your Project Manager.

Ranjit Clarke
Senior Project Manager
Enthalpy Analytical
806 N Batavia Street, Orange, CA 92868
O: 714-771-9906 / M:657-274-9864 / F: 714-771-9933
Ranjit.Clarke@enthalpy.com

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No virus found in this message.
Checked by AVG - www.avg.com
Version: 2016.0.7442 / Virus Database: 4627/12602 - Release Date: 07/12/16

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 7/7/2016 7:53:18AM

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Report To:

Enthalpy Analytical, Inc.
Ranjit Clarke
806 N. Batavia
Orange, CA 92868

Date Due:	07/14/16 17:00 (5 day TAT)		
Received By:	Sunny Lounethone	Date Received:	07/06/16 17:25
Logged In By:	Sunny Lounethone	Date Logged In:	07/06/16 17:44

Samples Received at:	**5.3°C**		
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	No		

Analysis	Due	TAT	Expires	Comments
T161490-01 371006-004 [Soil] Sampled 06/23/16 06:58 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 06:58	Report down to MDL
T161490-02 371006-007 [Soil] Sampled 06/23/16 07:05 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 07:05	Report down to MDL
T161490-03 371006-008 [Soil] Sampled 06/23/16 07:05 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 07:05	Report down to MDL
T161490-04 371006-029 [Soil] Sampled 06/23/16 07:40 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 07:40	Report down to MDL
T161490-05 371006-051 [Soil] Sampled 06/23/16 08:32 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:32	Report down to MDL
T161490-06 371006-054 [Soil] Sampled 06/23/16 08:38 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:38	Report down to MDL

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments
T161490-07 371006-057 [Soil] Sampled 06/23/16 08:30 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:30	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 08:30	Report down to MDL
T161490-08 371006-069 [Soil] Sampled 06/23/16 08:52 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:52	Report down to MDL
T161490-09 371006-070 [Soil] Sampled 06/23/16 08:52 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:52	Report down to MDL
T161490-10 371006-075 [Soil] Sampled 06/23/16 10:17 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:17	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:17	Report down to MDL
T161490-11 371006-076 [Soil] Sampled 06/23/16 10:10 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:10	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:10	Report down to MDL
T161490-12 371006-079 [Soil] Sampled 06/23/16 10:16 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:16	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:16	Report down to MDL
T161490-13 371006-080 [Soil] Sampled 06/23/16 10:16 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:16	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:16	Report down to MDL
T161490-14 371006-083 [Soil] Sampled 06/23/16 10:20 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:20	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:20	Report down to MDL
T161490-15 371006-088 [Soil] Sampled 06/23/16 10:26 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:26	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:26	Report down to MDL

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 7/7/2016 7:53:18AM

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments
T161490-16 371006-097 [Soil] Sampled 06/23/16 10:54 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:54	Report down to MDL
T161490-17 371006-100 [Soil] Sampled 06/23/16 11:16 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 11:16	Report down to MDL
T161490-18 371006-113 [Soil] Sampled 06/23/16 12:47 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 12:47	Report down to MDL
T161490-19 371006-116 [Soil] Sampled 06/23/16 12:51 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 12:51	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 12:51	Report down to MDL
T161490-20 371006-126 [Soil] Sampled 06/23/16 13:16 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 13:16	Report down to MDL
T161490-21 371006-164 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 34, 35, 36, 37**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-22 371006-165 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 38, 39, 40, 41**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-23 371006-166 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 42, 43, 44, 45**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-24 371006-167 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 46, 47, 48, 49**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-25 371006-168 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 50, 51, 52, 53**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments
T161490-26 371006-169 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 54, 55, 56, 57**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-27 371006-170 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 58, 59, 60, 61**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-28 371006-171 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 62, 63, 64, 65**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-29 371006-172 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 66, 67, 68, 69**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-30 371006-173 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 70, 71, 72, 73**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-31 371006-174 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 3:1 74, 75, 76**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-32 371006-175 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 2:1 77, 78**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-33 371006-176 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 79. 80, 81, 82**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-34 SS8-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-35 SS9-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-36 SS10-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	Enthalpy Analytical, Inc.	Project Manager:	Nicole Bryson
Project:	371006 PO# 371006	Project Number:	371006

Analysis	Due	TAT	Expires	Comments

T161490-37 SS11-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-38 SS12-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-39 SS13-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-40 SS14-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-41 SS15-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-42 SS16-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-43 SS17-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-44 SS18-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-45 SS19-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-46 SS20-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-47 SS21-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	Enthalpy Analytical, Inc.	Project Manager:	Nicole Bryson
Project:	371006 PO# 371006	Project Number:	371006

Analysis	Due	TAT	Expires	Comments

T161490-48 SS22-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-49 SS23-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-50 SS51-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-51 SS52-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-52 SS53-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-53 SS67-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-54 SS54-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-55 SS55-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-56 SS56-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-57 SS68-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-58 SS69-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	Enthalpy Analytical, Inc.	Project Manager:	Nicole Bryson
Project:	371006 PO# 371006	Project Number:	371006

Analysis	Due	TAT	Expires	Comments

T161490-59 SS70-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-60 SS71-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-61 SS98-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-62 SS73-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-63 SS74-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-64 SS75-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-65 SS76-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-66 SS77-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-67 SS78-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-68 SS79-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-69 SS80-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	Enthalpy Analytical, Inc.	Project Manager:	Nicole Bryson
Project:	371006 PO# 371006	Project Number:	371006

Analysis	Due	TAT	Expires	Comments

T161490-70 SS85-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-71 SS86-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-72 SS87-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-73 SS88-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-74 SS89-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-75 SS90-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-76 SS92-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-77 SS98-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-78 SS99-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-79 SS77-0.5DUP [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-80 SS78-0.5DUP [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 7/7/2016 7:53:18AM

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments

T161490-81 SS79-0.5DUP [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161490-82 SS80-0.5DUP [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

Reviewed By

Date

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 7/13/2016 9:39:42AM

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Report To:
Enthalpy Analytical, Inc.
Ranjit Clarke
806 N. Batavia
Orange, CA 92868

Date Due:	07/14/16 17:00 (5 day TAT)		
Received By:	Sunny Lounethone	Date Received:	07/06/16 17:25
Logged In By:	Sunny Lounethone	Date Logged In:	07/06/16 17:44

Samples Received at:	**5.3°C**		
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
T161490-01 371006-004 [Soil] Sampled 06/23/16 06:58 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 06:58	Report down to MDL
T161490-02 371006-007 [Soil] Sampled 06/23/16 07:05 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 07:05	Report down to MDL
T161490-03 371006-008 [Soil] Sampled 06/23/16 07:05 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 07:05	Report down to MDL
T161490-04 371006-029 [Soil] Sampled 06/23/16 07:40 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 07:40	Report down to MDL
T161490-05 371006-051 [Soil] Sampled 06/23/16 08:32 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:32	Report down to MDL
T161490-06 371006-054 [Soil] Sampled 06/23/16 08:38 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:38	Report down to MDL

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client: Enthalpy Analytical, Inc. **Project Manager:** Nicole Bryson
Project: 371006 PO# 371006 **Project Number:** 371006

Analysis	Due	TAT	Expires	Comments
T161490-07 371006-057 [Soil] Sampled 06/23/16 08:30 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:30	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 08:30	Report down to MDL
T161490-08 371006-069 [Soil] Sampled 06/23/16 08:52 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:52	Report down to MDL
T161490-09 371006-070 [Soil] Sampled 06/23/16 08:52 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 08:52	Report down to MDL
T161490-10 371006-075 [Soil] Sampled 06/23/16 10:17 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:17	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:17	Report down to MDL
T161490-11 371006-076 [Soil] Sampled 06/23/16 10:10 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:10	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:10	Report down to MDL
T161490-12 371006-079 [Soil] Sampled 06/23/16 10:16 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:16	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:16	Report down to MDL
T161490-13 371006-080 [Soil] Sampled 06/23/16 10:16 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:16	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:16	Report down to MDL
T161490-14 371006-083 [Soil] Sampled 06/23/16 10:20 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:20	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:20	Report down to MDL
T161490-15 371006-088 [Soil] Sampled 06/23/16 10:26 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:26	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:26	Report down to MDL

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client: Enthalpy Analytical, Inc. **Project Manager:** Nicole Bryson
Project: 371006 PO# 371006 **Project Number:** 371006

Analysis	Due	TAT	Expires	Comments
T161490-16 371006-097 [Soil] Sampled 06/23/16 10:54 (GMT-08:00) Pacific Time (US &				**Analysis added 7/12/2016 per R. Clarke**
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 10:54	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 10:54	J flag to MDL
T161490-17 371006-100 [Soil] Sampled 06/23/16 11:16 (GMT-08:00) Pacific Time (US &				**Analysis added 7/12/2016 per R. Clarke**
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 11:16	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 11:16	J flag to MDL
T161490-18 371006-113 [Soil] Sampled 06/23/16 12:47 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 12:47	Report down to MDL
T161490-19 371006-116 [Soil] Sampled 06/23/16 12:51 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/07/16 12:51	Report down to MDL
8082 PCB	07/14/16 15:00	5	07/07/16 12:51	Report down to MDL
T161490-20 371006-126 [Soil] Sampled 06/23/16 13:16 (GMT-08:00) Pacific Time (US &				
8082 PCB	07/14/16 15:00	5	07/07/16 13:16	Report down to MDL
T161490-21 371006-164 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 34, 35, 36, 37**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-22 371006-165 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 38, 39, 40, 41**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-23 371006-166 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 42, 43, 44, 45**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-24 371006-167 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 46, 47, 48, 49**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-25 371006-168 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 50, 51, 52, 53**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client: Enthalpy Analytical, Inc. **Project Manager:** Nicole Bryson
Project: 371006 PO# 371006 **Project Number:** 371006

Analysis	Due	TAT	Expires	Comments
T161490-26 371006-169 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 54, 55, 56, 57**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-27 371006-170 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 58, 59, 60, 61**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-28 371006-171 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 62, 63, 64, 65**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-29 371006-172 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 66, 67, 68, 69**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-30 371006-173 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 70, 71, 72, 73**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-31 371006-174 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 3:1 74, 75, 76**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-32 371006-175 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 2:1 77, 78**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-33 371006-176 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				**Composite 4:1 79. 80, 81, 82**
8081 Pesticides	07/14/16 15:00	5	07/07/16 00:00	Report down to MDL
T161490-34 SS8-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-35 SS9-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-36 SS10-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments
T161490-37 SS11-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-38 SS12-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-39 SS13-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-40 SS14-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-41 SS15-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-42 SS16-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-43 SS17-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-44 SS18-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-45 SS19-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-46 SS20-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-47 SS21-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments
T161490-48 SS22-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-49 SS23-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-50 SS51-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-51 SS52-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-52 SS53-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-53 SS67-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-54 SS54-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-55 SS55-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-56 SS56-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-57 SS68-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-58 SS69-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments
T161490-59 SS70-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-60 SS71-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-61 SS98-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-62 SS73-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-63 SS74-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-64 SS75-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-65 SS76-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-66 SS77-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-67 SS78-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-68 SS79-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-69 SS80-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments
T161490-70 SS85-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-71 SS86-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-72 SS87-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-73 SS88-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-74 SS89-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-75 SS90-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-76 SS92-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-77 SS98-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-78 SS99-0.5 [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-79 SS77-0.5DUP [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-80 SS78-0.5DUP [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161490

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371006 PO# 371006**	**Project Number:**	**371006**

Analysis	Due	TAT	Expires	Comments
T161490-81 SS79-0.5DUP [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161490-82 SS80-0.5DUP [Soil] Sampled 06/23/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

Reviewed By

Date

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	371034
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	07/18/2016
		Date Received:	06/24/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

See attached report for Carbon Chain, Pesticides, and PCBs. Results for sample "EQBL624" are not included as those samples are no longer available.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
371034-001	SS58-1.5	371034-025	SS84-0.5	371034-049	SS29-0.5
371034-002	SS58-5.5	371034-026	SS84-1.5	371034-050	SS29-1.5
371034-003	SS58-10.5	371034-027	SS84-2.5	371034-051	SS29-2.5
371034-004	SS106-0.5	371034-028	SS83-0.5	371034-052	SS102-0.5
371034-005	SS106-1.5	371034-029	SS83-1.5	371034-053	SS102-1.5
371034-006	SS106-2.5	371034-030	SS83-2.5	371034-054	SS102-2.5
371034-007	SS59-1.5	371034-031	SS82-0.5	371034-055	SS103-0.5
371034-008	SS59-5.5	371034-032	SS82-1.5	371034-056	SS103-1.5
371034-009	SS59-10.5	371034-033	SS82-2.5	371034-057	SS103-2.5
371034-010	SS66-0.5	371034-034	SS57-0.5	371034-058	SS104-0.5
371034-011	SS66-1.5	371034-035	SS57-1.5	371034-059	SS104-1.5
371034-012	SS66-2.5	371034-036	SS57-2.5	371034-060	SS104-2.5
371034-013	SS105-0.5	371034-037	SS1-0.5	371034-061	SS96-0.5
371034-014	SS105-1.5	371034-038	SS1-1.5	371034-062	SS96-1.5
371034-015	SS105-2.5	371034-039	SS1-2.5	371034-063	SS96-2.5
371034-016	SS65-1.5	371034-040	SS1-0.5	371034-064	SS101-0.5
371034-017	SS65-5.5	371034-041	SS2-1.5	371034-065	SS101-1.5
371034-018	SS65-10.5	371034-042	SS2-2.5	371034-066	SS101-2.5
371034-019	SS81-0.5	371034-043	SS5-0.5	371034-067	SS95-0.5
371034-020	SS81-1.5	371034-044	SS5-1.5	371034-068	SS95-1.5
371034-021	SS81-2.5	371034-045	SS5-2.5	371034-069	SS95-2.5
371034-022	SS64-1.5	371034-046	SS30-0.5	371034-070	SS94-0.5
371034-023	SS64-5.5	371034-047	SS30-1.5	371034-071	SS94-1.5
371034-024	SS64-10.5	371034-048	SS30-2.5	371034-072	SS94-2.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:18	**Site:**			
Sample #:	**371034-001**	**Client Sample #:**	SS58-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:20	**Site:**			
Sample #:	**371034-002**	**Client Sample #:**	SS58-5.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:22	**Site:**			
Sample #:	**371034-003**	**Client Sample #:**	SS58-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:		QC1169049
TPH Gasoline	ND	1	0.159	3	mg/Kg	07/14/16	07/14/16	LT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*85*	*60-140*	

Method: EPA 8082 *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:		QC1169051
1,1,1,2-Tetrachloroethane	ND	1	0.24	5	ug/Kg		07/14/16	ZZ	
1,1,1-Trichloroethane	ND	1	0.15	5	ug/Kg		07/14/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	0.29	5	ug/Kg		07/14/16	ZZ	
1,1,2-Trichloroethane	ND	1	0.22	5	ug/Kg		07/14/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.74	5	ug/Kg		07/14/16	ZZ	
1,1-Dichloroethane	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
1,1-Dichloroethene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
1,1-Dichloropropene	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
1,2,3-Trichlorobenzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
1,2,3-Trichloropropane	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
1,2,4-Trichlorobenzene	ND	1	0.33	5	ug/Kg		07/14/16	ZZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/Kg		07/14/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
1,2-Dibromoethane	ND	1	0.12	5	ug/Kg		07/14/16	ZZ	
1,2-Dichlorobenzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
1,2-Dichloroethane	ND	1	0.14	5	ug/Kg		07/14/16	ZZ	
1,2-Dichloropropane	ND	1	0.34	5	ug/Kg		07/14/16	ZZ	
1,3,5-Trimethylbenzene	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
1,3-Dichlorobenzene	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
1,3-Dichloropropane	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
1,4-Dichlorobenzene	ND	1	0.24	5	ug/Kg		07/14/16	ZZ	
2,2-Dichloropropane	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
2-Butanone (MEK)	ND	1	0.72	100	ug/Kg		07/14/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1	0.3	5	ug/Kg		07/14/16	ZZ	
2-Chlorotoluene	ND	1	0.25	5	ug/Kg		07/14/16	ZZ	
4-Chlorotoluene	ND	1	0.22	5	ug/Kg		07/14/16	ZZ	
4-Isopropyltoluene	ND	1	0.27	5	ug/Kg		07/14/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.17	5	ug/Kg		07/14/16	ZZ	
Acetone	ND	1	10	100	ug/Kg		07/14/16	ZZ	
Allyl Chloride	ND	1	0.14	5	ug/Kg		07/14/16	ZZ	
Benzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Bromobenzene	ND	1	0.3	5	ug/Kg		07/14/16	ZZ	
Bromochloromethane	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Bromodichloromethane	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
Bromoform	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
Bromomethane	ND	1	0.22	5	ug/Kg		07/14/16	ZZ	
Carbon Tetrachloride	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Chlorobenzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Chlorodibromomethane	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
Chloroethane	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
Chloroform	ND	1	0.17	5	ug/Kg		07/14/16	ZZ	
Chloromethane	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
cis-1,2-Dichloroethene	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:22	**Site:**			
Sample #:	**371034-003**	**Client Sample #:**	SS58-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
Dibromomethane	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
Dichlorodifluoromethane	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
Ethylbenzene	ND	1	0.25	5	ug/Kg		07/14/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.42	5	ug/Kg		07/14/16	ZZ	
Hexachlorobutadiene	ND	1	0.38	5	ug/Kg		07/14/16	ZZ	
Isopropylbenzene	ND	1	0.17	5	ug/Kg		07/14/16	ZZ	
m and p-Xylene	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
Methylene chloride	ND	1	0.22	5	ug/Kg		07/14/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	0.25	5	ug/Kg		07/14/16	ZZ	
Naphthalene	ND	1	0.28	5	ug/Kg		07/14/16	ZZ	
N-butylbenzene	ND	1	0.16	5	ug/Kg		07/14/16	ZZ	
N-propylbenzene	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
o-Xylene	ND	1	0.13	5	ug/Kg		07/14/16	ZZ	
Sec-butylbenzene	ND	1	0.34	5	ug/Kg		07/14/16	ZZ	
Styrene	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
t-Butyl alcohol (TBA)	ND	1	8.8	10	ug/Kg		07/14/16	ZZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
Tert-butylbenzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Tetrachloroethene	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
Toluene	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
trans-1,2-dichloroethene	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
trans-1,3-dichloropropene	ND	1	0.14	5	ug/Kg		07/14/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1	0.38	5	ug/Kg		07/14/16	ZZ	
Trichloroethene	ND	1	0.39	5	ug/Kg		07/14/16	ZZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/Kg		07/14/16	ZZ	
Vinyl Chloride	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Xylenes (Total)	ND	1	0.45	5	ug/Kg		07/14/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*104*	*70-145*	
4-Bromofluorobenzene (SUR)	*124*	*70-145*	
Dibromodifluoromethane (SUR)	*106*	*70-145*	
Toluene-d8 (SUR)	*105*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:24	**Site:**			
Sample #:	**371034-004**	**Client Sample #:**	SS106-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**44.8**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**1.737 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:25	**Site:**			
Sample #:	**371034-005**	**Client Sample #:**	SS106-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:26	**Site:**			
Sample #:	**371034-006**	**Client Sample #:**	SS106-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:28	**Site:**			
Sample #:	**371034-007**	**Client Sample #:**	SS59-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:30	**Site:**			
Sample #:	**371034-008**	**Client Sample #:**	SS59-5.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:32	**Site:**			
Sample #:	**371034-009**	**Client Sample #:**	SS59-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1169049
TPH Gasoline	ND	1	0.159	3	mg/Kg	07/14/16	07/14/16	LT	
Surrogate	*% Recovery*		*Limits*		*Notes*				
4-Bromofluorobenzene (SUR)	*85*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1169051
1,1,1,2-Tetrachloroethane	ND	1	0.24	5	ug/Kg		07/14/16	ZZ	
1,1,1-Trichloroethane	ND	1	0.15	5	ug/Kg		07/14/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	0.29	5	ug/Kg		07/14/16	ZZ	
1,1,2-Trichloroethane	ND	1	0.22	5	ug/Kg		07/14/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.74	5	ug/Kg		07/14/16	ZZ	
1,1-Dichloroethane	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
1,1-Dichloroethene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
1,1-Dichloropropene	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
1,2,3-Trichlorobenzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
1,2,3-Trichloropropane	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
1,2,4-Trichlorobenzene	ND	1	0.33	5	ug/Kg		07/14/16	ZZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/Kg		07/14/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
1,2-Dibromoethane	ND	1	0.12	5	ug/Kg		07/14/16	ZZ	
1,2-Dichlorobenzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
1,2-Dichloroethane	ND	1	0.14	5	ug/Kg		07/14/16	ZZ	
1,2-Dichloropropane	ND	1	0.34	5	ug/Kg		07/14/16	ZZ	
1,3,5-Trimethylbenzene	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
1,3-Dichlorobenzene	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
1,3-Dichloropropane	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
1,4-Dichlorobenzene	ND	1	0.24	5	ug/Kg		07/14/16	ZZ	
2,2-Dichloropropane	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
2-Butanone (MEK)	ND	1	0.72	100	ug/Kg		07/14/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1	0.3	5	ug/Kg		07/14/16	ZZ	
2-Chlorotoluene	ND	1	0.25	5	ug/Kg		07/14/16	ZZ	
4-Chlorotoluene	ND	1	0.22	5	ug/Kg		07/14/16	ZZ	
4-Isopropyltoluene	ND	1	0.27	5	ug/Kg		07/14/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.17	5	ug/Kg		07/14/16	ZZ	
Acetone	ND	1	10	100	ug/Kg		07/14/16	ZZ	
Allyl Chloride	ND	1	0.14	5	ug/Kg		07/14/16	ZZ	
Benzene	**0.22 J**	1	0.18	5	ug/Kg		07/14/16	ZZ	
Bromobenzene	ND	1	0.3	5	ug/Kg		07/14/16	ZZ	
Bromochloromethane	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Bromodichloromethane	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
Bromoform	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
Bromomethane	ND	1	0.22	5	ug/Kg		07/14/16	ZZ	
Carbon Tetrachloride	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Chlorobenzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Chlorodibromomethane	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
Chloroethane	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
Chloroform	ND	1	0.17	5	ug/Kg		07/14/16	ZZ	
Chloromethane	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
cis-1,2-Dichloroethene	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:32	**Site:**			
Sample #:	**371034-009**	**Client Sample #:**	SS59-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
Dibromomethane	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
Dichlorodifluoromethane	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
Ethylbenzene	ND	1	0.25	5	ug/Kg		07/14/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.42	5	ug/Kg		07/14/16	ZZ	
Hexachlorobutadiene	ND	1	0.38	5	ug/Kg		07/14/16	ZZ	
Isopropylbenzene	ND	1	0.17	5	ug/Kg		07/14/16	ZZ	
m and p-Xylene	ND	1	0.21	5	ug/Kg		07/14/16	ZZ	
Methylene chloride	ND	1	0.22	5	ug/Kg		07/14/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	0.25	5	ug/Kg		07/14/16	ZZ	
Naphthalene	ND	1	0.28	5	ug/Kg		07/14/16	ZZ	
N-butylbenzene	ND	1	0.16	5	ug/Kg		07/14/16	ZZ	
N-propylbenzene	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
o-Xylene	ND	1	0.13	5	ug/Kg		07/14/16	ZZ	
Sec-butylbenzene	ND	1	0.34	5	ug/Kg		07/14/16	ZZ	
Styrene	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
t-Butyl alcohol (TBA)	ND	1	8.8	10	ug/Kg		07/14/16	ZZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/Kg		07/14/16	ZZ	
Tert-butylbenzene	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Tetrachloroethene	ND	1	0.2	5	ug/Kg		07/14/16	ZZ	
Toluene	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
trans-1,2-dichloroethene	ND	1	0.23	5	ug/Kg		07/14/16	ZZ	
trans-1,3-dichloropropene	ND	1	0.14	5	ug/Kg		07/14/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1	0.38	5	ug/Kg		07/14/16	ZZ	
Trichloroethene	ND	1	0.39	5	ug/Kg		07/14/16	ZZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/Kg		07/14/16	ZZ	
Vinyl Chloride	ND	1	0.18	5	ug/Kg		07/14/16	ZZ	
Xylenes (Total)	ND	1	0.45	5	ug/Kg		07/14/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*103*	*70-145*	
4-Bromofluorobenzene (SUR)	*122*	*70-145*	
Dibromodifluoromethane (SUR)	*103*	*70-145*	
Toluene-d8 (SUR)	*105*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 07:33	**Site:**			
Sample #:	**371034-010**	**Client Sample #:**	SS66-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168666	
Antimony	ND	1	0.37	3	mg/Kg	06/25/16	06/27/16	JN	
Arsenic	**3.46**	1	0.36	1	mg/Kg	06/25/16	06/27/16	JN	
Barium	**104**	1	0.23	1	mg/Kg	06/25/16	06/27/16	JN	
Beryllium	ND	1	0.17	0.5	mg/Kg	06/25/16	06/27/16	JN	
Cadmium	**0.52**	1	0.21	0.5	mg/Kg	06/25/16	06/27/16	JN	
Chromium	**15.7**	1	0.13	1	mg/Kg	06/25/16	06/27/16	JN	
Cobalt	**11.4**	1	0.19	0.5	mg/Kg	06/25/16	06/27/16	JN	
Copper	**17.7**	1	0.31	1	mg/Kg	06/25/16	06/27/16	JN	
Lead	**11.9**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Molybdenum	**0.39 J**	1	0.13	1	mg/Kg	06/25/16	06/27/16	JN	
Nickel	**12.4**	1	0.2	1.5	mg/Kg	06/25/16	06/27/16	JN	
Selenium	ND	1	0.72	1	mg/Kg	06/25/16	06/27/16	JN	B
Silver	ND	1	0.13	0.5	mg/Kg	06/25/16	06/27/16	JN	
Thallium	ND	1	0.42	1	mg/Kg	06/25/16	06/27/16	JN	
Vanadium	**37.3**	1	0.37	0.5	mg/Kg	06/25/16	06/27/16	JN	
Zinc	**57.8**	1	0.28	5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID:	QC1168708	
Arsenic	**2.17 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A							QCBatchID:	QC1168664	
Mercury	**0.05 J**	1	0.02	0.14	mg/Kg	06/27/16	06/28/16	JP	
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168647	
TPH Gasoline	ND	1.35	0.21465	4.05	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*87*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID:	QC1168642	
1,1,1,2-Tetrachloroethane	ND	0.89	0.2136	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	0.89	0.1335	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.89	0.2581	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	0.89	0.1958	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.89	0.6586	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	0.89	0.2047	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	0.89	0.1869	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	0.89	0.178	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.89	0.2937	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.89	0.2492	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.89	0.178	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	0.89	0.1068	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	0.89	0.1246	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	0.89	0.3026	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.89	0.2047	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	0.89	0.1869	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	0.89	0.1691	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	0.89	0.2136	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	0.89	0.1691	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
2-Butanone (MEK)	**2.1 J**	0.89	0.6408	89	ug/Kg	06/25/16	06/25/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	0.89	0.267	4.45	ug/Kg	06/25/16	06/25/16	ZZ	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 07:33	Site:			
Sample #:	371034-010	Client Sample #:	SS66-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
2-Chlorotoluene	ND	0.89	0.2225	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
4-Chlorotoluene	ND	0.89	0.1958	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	0.89	0.2403	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.89	0.1513	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Acetone	**11 J**	0.89	8.9	89	ug/Kg	06/25/16	06/25/16	ZZ	
Allyl Chloride	ND	0.89	0.1246	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Benzene	**0.58 J**	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Bromobenzene	ND	0.89	0.267	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Bromochloromethane	ND	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Bromodichloromethane	ND	0.89	0.178	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Bromoform	ND	0.89	0.1691	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Bromomethane	ND	0.89	0.1958	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Chlorobenzene	ND	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Chlorodibromomethane	ND	0.89	0.1691	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Chloroethane	ND	0.89	0.178	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Chloroform	ND	0.89	0.1513	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Chloromethane	ND	0.89	0.1869	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	0.89	0.178	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,3-dichloropropene	ND	0.89	0.178	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.89	0.178	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Dibromomethane	ND	0.89	0.2047	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Dichlorodifluoromethane	ND	0.89	0.2047	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.89	0.1869	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Ethylbenzene	ND	0.89	0.2225	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.89	0.3738	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	0.89	0.3382	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Isopropylbenzene	ND	0.89	0.1513	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
m and p-Xylene	ND	0.89	0.1869	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Methylene chloride	ND	0.89	0.1958	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.89	0.2225	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Naphthalene	ND	0.89	0.2492	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
N-butylbenzene	ND	0.89	0.1424	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
N-propylbenzene	ND	0.89	0.1691	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
o-Xylene	ND	0.89	0.1157	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Sec-butylbenzene	ND	0.89	0.3026	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Styrene	ND	0.89	0.2047	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.89	7.832	8.9	ug/Kg	06/25/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.89	0.1691	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Tert-butylbenzene	ND	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Tetrachloroethene	ND	0.89	0.178	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Toluene	**0.26 J**	0.89	0.2047	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,2-dichloroethene	ND	0.89	0.2047	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	0.89	0.1246	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.89	0.3382	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Trichloroethene	ND	0.89	0.3471	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	0.89	0.2225	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Vinyl Chloride	ND	0.89	0.1602	4.45	ug/Kg	06/25/16	06/25/16	ZZ	
Xylenes (Total)	ND	0.89	0.4005	4.45	ug/Kg	06/25/16	06/25/16	ZZ	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/24/2016 07:33	Site:	
Sample #: **371034-010**	Client Sample #: SS66-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*118*	*70-145*	
4-Bromofluorobenzene (SUR)	*107*	*70-145*	
Dibromodifluoromethane (SUR)	*108*	*70-145*	
Toluene-d8 (SUR)	*94*	*70-145*	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/24/2016 07:34	Site:	
Sample #: **371034-011**	Client Sample #: SS66-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/24/2016 07:35	Site:	
Sample #: **371034-012**	Client Sample #: SS66-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/24/2016 07:43	Site:	
Sample #: **371034-013**	Client Sample #: SS105-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**2.88**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**0.826 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/24/2016 07:44	Site:	
Sample #: **371034-014**	Client Sample #: SS105-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/24/2016 07:45	Site:	
Sample #: **371034-015**	Client Sample #: SS105-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 06/24/2016 08:05	Site:	
Sample #: **371034-016**	Client Sample #: SS65-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:07	**Site:**			
Sample #:	**371034-017**	**Client Sample #:**	SS65-5.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:10	**Site:**			
Sample #:	**371034-018**	**Client Sample #:**	SS65-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168647
TPH Gasoline	ND	1.19	0.18921	3.57	mg/Kg		06/25/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*95*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168642
1,1,1,2-Tetrachloroethane	ND	0.96	0.2304	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	0.96	0.144	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	0.96	0.2784	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	0.96	0.2112	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	0.96	0.7104	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	0.96	0.2208	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	0.96	0.2016	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	0.96	0.192	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	0.96	0.3168	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	0.96	0.2688	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	0.96	0.192	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	0.96	0.1152	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	0.96	0.1344	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	0.96	0.3264	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	0.96	0.2208	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	0.96	0.2016	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	0.96	0.1824	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	0.96	0.2304	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	0.96	0.1824	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
2-Butanone (MEK)	ND	0.96	0.6912	96	ug/Kg	06/25/16	06/25/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	0.96	0.288	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
2-Chlorotoluene	ND	0.96	0.24	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
4-Chlorotoluene	ND	0.96	0.2112	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	0.96	0.2592	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	0.96	0.1632	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Acetone	ND	0.96	9.6	96	ug/Kg	06/25/16	06/25/16	ZZ	
Allyl Chloride	ND	0.96	0.1344	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Benzene	**1.7 J**	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Bromobenzene	ND	0.96	0.288	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Bromochloromethane	ND	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Bromodichloromethane	ND	0.96	0.192	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Bromoform	ND	0.96	0.1824	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Bromomethane	ND	0.96	0.2112	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Chlorobenzene	ND	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Chlorodibromomethane	ND	0.96	0.1824	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Chloroethane	ND	0.96	0.192	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Chloroform	ND	0.96	0.1632	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Chloromethane	ND	0.96	0.2016	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	0.96	0.192	4.8	ug/Kg	06/25/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:10	**Site:**			
Sample #:	**371034-018**	**Client Sample #:**	SS65-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	0.96	0.192	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	0.96	0.192	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Dibromomethane	ND	0.96	0.2208	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Dichlorodifluoromethane	ND	0.96	0.2208	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	0.96	0.2016	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Ethylbenzene	ND	0.96	0.24	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	0.96	0.4032	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	0.96	0.3648	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Isopropylbenzene	ND	0.96	0.1632	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
m and p-Xylene	ND	0.96	0.2016	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Methylene chloride	**0.25 J**	0.96	0.2112	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	0.96	0.24	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Naphthalene	ND	0.96	0.2688	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
N-butylbenzene	ND	0.96	0.1536	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
N-propylbenzene	ND	0.96	0.1824	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
o-Xylene	ND	0.96	0.1248	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Sec-butylbenzene	ND	0.96	0.3264	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Styrene	ND	0.96	0.2208	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	0.96	8.448	9.6	ug/Kg	06/25/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	0.96	0.1824	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Tert-butylbenzene	ND	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Tetrachloroethene	ND	0.96	0.192	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Toluene	**0.60 J**	0.96	0.2208	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,2-dichloroethene	ND	0.96	0.2208	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	0.96	0.1344	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	0.96	0.3648	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Trichloroethene	ND	0.96	0.3744	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	0.96	0.24	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Vinyl Chloride	ND	0.96	0.1728	4.8	ug/Kg	06/25/16	06/25/16	ZZ	
Xylenes (Total)	ND	0.96	0.432	4.8	ug/Kg	06/25/16	06/25/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*124*	*70-145*	
4-Bromofluorobenzene (SUR)	*107*	*70-145*	
Dibromodifluoromethane (SUR)	*108*	*70-145*	
Toluene-d8 (SUR)	*91*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:15	**Site:**			
Sample #:	**371034-019**	**Client Sample #:**	SS81-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**32.0**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**8.74**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:16	**Site:**			
Sample #:	**371034-020**	**Client Sample #:**	SS81-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:17	**Site:**			
Sample #:	**371034-021**	**Client Sample #:**	SS81-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:24	**Site:**			
Sample #:	**371034-022**	**Client Sample #:**	SS64-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:25	**Site:**			
Sample #:	**371034-023**	**Client Sample #:**	SS64-5.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:26	**Site:**			
Sample #:	**371034-024**	**Client Sample #:**	SS64-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168647
TPH Gasoline	ND	1.09	0.17331	3.27	mg/Kg		06/25/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*91*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168642
1,1,1,2-Tetrachloroethane	ND	1.32	0.3168	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	1.32	0.198	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.32	0.3828	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	1.32	0.2904	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.32	0.9768	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	1.32	0.3036	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	1.32	0.2772	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	1.32	0.264	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.32	0.4356	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.32	0.3696	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.32	0.264	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	1.32	0.1584	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	1.32	0.1848	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	1.32	0.4488	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.32	0.3036	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	1.32	0.2772	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	1.32	0.2508	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	1.32	0.3168	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	1.32	0.2508	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
2-Butanone (MEK)	ND	1.32	0.9504	132	ug/Kg	06/25/16	06/25/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.32	0.396	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
2-Chlorotoluene	ND	1.32	0.33	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
4-Chlorotoluene	ND	1.32	0.2904	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	1.32	0.3564	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.32	0.2244	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Acetone	ND	1.32	13.2	132	ug/Kg	06/25/16	06/25/16	ZZ	
Allyl Chloride	ND	1.32	0.1848	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Benzene	**0.93 J**	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Bromobenzene	ND	1.32	0.396	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Bromochloromethane	ND	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Bromodichloromethane	ND	1.32	0.264	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Bromoform	ND	1.32	0.2508	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Bromomethane	ND	1.32	0.2904	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Chlorobenzene	ND	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Chlorodibromomethane	ND	1.32	0.2508	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Chloroethane	ND	1.32	0.264	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Chloroform	ND	1.32	0.2244	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Chloromethane	ND	1.32	0.2772	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	1.32	0.264	6.6	ug/Kg	06/25/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:26	**Site:**			
Sample #:	**371034-024**	**Client Sample #:**	SS64-10.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.32	0.264	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.32	0.264	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Dibromomethane	ND	1.32	0.3036	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Dichlorodifluoromethane	ND	1.32	0.3036	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.32	0.2772	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Ethylbenzene	ND	1.32	0.33	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.32	0.5544	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	1.32	0.5016	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Isopropylbenzene	ND	1.32	0.2244	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
m and p-Xylene	ND	1.32	0.2772	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Methylene chloride	**0.47 J**	1.32	0.2904	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.32	0.33	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Naphthalene	ND	1.32	0.3696	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
N-butylbenzene	ND	1.32	0.2112	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
N-propylbenzene	ND	1.32	0.2508	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
o-Xylene	ND	1.32	0.1716	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Sec-butylbenzene	ND	1.32	0.4488	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Styrene	ND	1.32	0.3036	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.32	11.616	13.2	ug/Kg	06/25/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.32	0.2508	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Tert-butylbenzene	ND	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Tetrachloroethene	ND	1.32	0.264	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Toluene	**0.45 J**	1.32	0.3036	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,2-dichloroethene	ND	1.32	0.3036	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	1.32	0.1848	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.32	0.5016	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Trichloroethene	ND	1.32	0.5148	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	1.32	0.33	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Vinyl Chloride	ND	1.32	0.2376	6.6	ug/Kg	06/25/16	06/25/16	ZZ	
Xylenes (Total)	ND	1.32	0.594	6.6	ug/Kg	06/25/16	06/25/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*125*	*70-145*	
4-Bromofluorobenzene (SUR)	*107*	*70-145*	
Dibromodifluoromethane (SUR)	*114*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:32	**Site:**			
Sample #:	**371034-025**	**Client Sample #:**	SS84-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**20.1**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**3.22**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 08:33	**Site:**			
Sample #:	**371034-026**	**Client Sample #:**	SS84-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 08:34	Site:			
Sample #:	371034-027	Client Sample #:	SS84-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 08:50	Site:			
Sample #:	371034-028	Client Sample #:	SS83-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**47.2**	1	0.32	0.5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**4.28**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 08:51	Site:			
Sample #:	371034-029	Client Sample #:	SS83-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 08:52	Site:			
Sample #:	371034-030	Client Sample #:	SS83-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:03	Site:			
Sample #:	371034-031	Client Sample #:	SS82-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**88.7**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**2.66 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:04	Site:			
Sample #:	371034-032	Client Sample #:	SS82-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:05	Site:			
Sample #:	371034-033	Client Sample #:	SS82-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 09:01	**Site:**			
Sample #:	**371034-034**	**Client Sample #:**	SS57-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168647
TPH Gasoline	ND	1.09	0.17331	3.27	mg/Kg		06/25/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*94*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168642
1,1,1,2-Tetrachloroethane	ND	1.02	0.2448	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,1-Trichloroethane	ND	1.02	0.153	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.02	0.2958	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2-Trichloroethane	ND	1.02	0.2244	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.02	0.7548	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloroethane	ND	1.02	0.2346	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloroethene	ND	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,1-Dichloropropene	ND	1.02	0.2142	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,3-Trichloropropane	ND	1.02	0.204	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.02	0.3366	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.02	0.2856	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.02	0.204	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dibromoethane	ND	1.02	0.1224	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichlorobenzene	ND	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichloroethane	ND	1.02	0.1428	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,2-Dichloropropane	ND	1.02	0.3468	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.02	0.2346	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,3-Dichlorobenzene	ND	1.02	0.2142	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,3-Dichloropropane	ND	1.02	0.1938	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
1,4-Dichlorobenzene	ND	1.02	0.2448	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
2,2-Dichloropropane	ND	1.02	0.1938	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
2-Butanone (MEK)	**2.0 J**	1.02	0.7344	102	ug/Kg	06/25/16	06/25/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.02	0.306	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
2-Chlorotoluene	ND	1.02	0.255	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
4-Chlorotoluene	ND	1.02	0.2244	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
4-Isopropyltoluene	ND	1.02	0.2754	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.02	0.1734	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Acetone	**14 J**	1.02	10.2	102	ug/Kg	06/25/16	06/25/16	ZZ	
Allyl Chloride	ND	1.02	0.1428	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Benzene	**1.6 J**	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Bromobenzene	ND	1.02	0.306	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Bromochloromethane	ND	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Bromodichloromethane	ND	1.02	0.204	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Bromoform	ND	1.02	0.1938	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Bromomethane	ND	1.02	0.2244	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Carbon Tetrachloride	ND	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Chlorobenzene	ND	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Chlorodibromomethane	ND	1.02	0.1938	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Chloroethane	ND	1.02	0.204	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Chloroform	ND	1.02	0.1734	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Chloromethane	ND	1.02	0.2142	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	1.02	0.204	5.1	ug/Kg	06/25/16	06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 09:01	**Site:**			
Sample #:	**371034-034**	**Client Sample #:**	SS57-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.02	0.204	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.02	0.204	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Dibromomethane	ND	1.02	0.2346	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Dichlorodifluoromethane	ND	1.02	0.2346	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.02	0.2142	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Ethylbenzene	ND	1.02	0.255	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.02	0.4284	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Hexachlorobutadiene	ND	1.02	0.3876	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Isopropylbenzene	ND	1.02	0.1734	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
m and p-Xylene	ND	1.02	0.2142	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Methylene chloride	**0.35 J**	1.02	0.2244	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.02	0.255	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Naphthalene	ND	1.02	0.2856	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
N-butylbenzene	ND	1.02	0.1632	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
N-propylbenzene	ND	1.02	0.1938	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
o-Xylene	ND	1.02	0.1326	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Sec-butylbenzene	ND	1.02	0.3468	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Styrene	ND	1.02	0.2346	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.02	8.976	10.2	ug/Kg	06/25/16	06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.02	0.1938	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Tert-butylbenzene	ND	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Tetrachloroethene	ND	1.02	0.204	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Toluene	**0.63 J**	1.02	0.2346	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,2-dichloroethene	ND	1.02	0.2346	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,3-dichloropropene	ND	1.02	0.1428	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.02	0.3876	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Trichloroethene	ND	1.02	0.3978	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Trichlorofluoromethane	ND	1.02	0.255	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Vinyl Chloride	ND	1.02	0.1836	5.1	ug/Kg	06/25/16	06/25/16	ZZ	
Xylenes (Total)	ND	1.02	0.459	5.1	ug/Kg	06/25/16	06/25/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*118*	*70-145*	
4-Bromofluorobenzene (SUR)	*104*	*70-145*	
Dibromodifluoromethane (SUR)	*108*	*70-145*	
Toluene-d8 (SUR)	*105*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 09:02	**Site:**			
Sample #:	**371034-035**	**Client Sample #:**	SS57-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 09:03	**Site:**			
Sample #:	**371034-036**	**Client Sample #:**	SS57-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:31	Site:			
Sample #:	371034-037	Client Sample #:	SS1-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**118**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**2.35 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:32	Site:			
Sample #:	371034-038	Client Sample #:	SS1-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:33	Site:			
Sample #:	371034-039	Client Sample #:	SS1-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:36	Site:			
Sample #:	371034-040	Client Sample #:	SS1-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**194**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168708		
Arsenic	**3.38**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:38	Site:			
Sample #:	371034-041	Client Sample #:	SS2-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:40	Site:			
Sample #:	371034-042	Client Sample #:	SS2-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 09:34	**Site:**			
Sample #:	**371034-043**	**Client Sample #:**	SS5-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168647
TPH Gasoline	ND	1.02	0.16218	3.06	mg/Kg		06/25/16	TT	
Surrogate	*% Recovery*		*Limits*	*Notes*					
4-Bromofluorobenzene (SUR)	*93*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID:		QC1168642
1,1,1,2-Tetrachloroethane	ND	1.14	0.2736	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,1-Trichloroethane	ND	1.14	0.171	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.14	0.3306	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2-Trichloroethane	ND	1.14	0.2508	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.14	0.8436	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloroethane	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloroethene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloropropene	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,3-Trichloropropane	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.14	0.3762	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.14	0.3192	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dibromoethane	ND	1.14	0.1368	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichloroethane	ND	1.14	0.1596	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichloropropane	ND	1.14	0.3876	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,3-Dichlorobenzene	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,3-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,4-Dichlorobenzene	ND	1.14	0.2736	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
2,2-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
2-Butanone (MEK)	ND	1.14	0.8208	114	ug/Kg	06/25/16	06/26/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.14	0.342	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
2-Chlorotoluene	ND	1.14	0.285	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
4-Chlorotoluene	ND	1.14	0.2508	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
4-Isopropyltoluene	ND	1.14	0.3078	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.14	0.1938	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Acetone	**13 J**	1.14	11.4	114	ug/Kg	06/25/16	06/26/16	ZZ	
Allyl Chloride	ND	1.14	0.1596	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Benzene	**3.7 J**	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromobenzene	ND	1.14	0.342	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromochloromethane	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromodichloromethane	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromoform	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromomethane	ND	1.14	0.2508	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Carbon Tetrachloride	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chlorodibromomethane	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chloroethane	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chloroform	ND	1.14	0.1938	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chloromethane	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,2-Dichloroethene	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 09:34	**Site:**			
Sample #:	**371034-043**	**Client Sample #:**	SS5-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,3-dichloropropene	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Dibromomethane	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Dichlorodifluoromethane	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Ethylbenzene	**0.31 J**	1.14	0.285	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.14	0.4788	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Hexachlorobutadiene	ND	1.14	0.4332	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Isopropylbenzene	ND	1.14	0.1938	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
m and p-Xylene	**0.41 J**	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Methylene chloride	**0.26 J**	1.14	0.2508	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.14	0.285	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Naphthalene	ND	1.14	0.3192	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
N-butylbenzene	ND	1.14	0.1824	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
N-propylbenzene	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
o-Xylene	**0.27 J**	1.14	0.1482	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Sec-butylbenzene	ND	1.14	0.3876	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Styrene	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.14	10.032	11.4	ug/Kg	06/25/16	06/26/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Tert-butylbenzene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Tetrachloroethene	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Toluene	**1.8 J**	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,2-dichloroethene	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,3-dichloropropene	ND	1.14	0.1596	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.14	0.4332	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Trichloroethene	ND	1.14	0.4446	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Trichlorofluoromethane	ND	1.14	0.285	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Vinyl Chloride	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Xylenes (Total)	**0.68 J**	1.14	0.513	5.7	ug/Kg	06/25/16	06/26/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*126*	*70-145*	
4-Bromofluorobenzene (SUR)	*111*	*70-145*	
Dibromodifluoromethane (SUR)	*106*	*70-145*	
Toluene-d8 (SUR)	*104*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 09:35	**Site:**			
Sample #:	**371034-044**	**Client Sample #:**	SS5-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 09:36	**Site:**			
Sample #:	**371034-045**	**Client Sample #:**	SS5-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/24/2016 09:42 **Site:**
Sample #: 371034-046 **Client Sample #:** SS30-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**26.6**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**1.640 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/24/2016 09:45 **Site:**
Sample #: 371034-047 **Client Sample #:** SS30-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/24/2016 09:46 **Site:**
Sample #: 371034-048 **Client Sample #:** SS30-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/24/2016 09:51 **Site:**
Sample #: 371034-049 **Client Sample #:** SS29-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**26.0**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**2.94 J**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/24/2016 09:52 **Site:**
Sample #: 371034-050 **Client Sample #:** SS29-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/24/2016 09:54 **Site:**
Sample #: 371034-051 **Client Sample #:** SS29-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 06/24/2016 09:58 **Site:**
Sample #: 371034-052 **Client Sample #:** SS102-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**92.3**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**7.23**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 09:59	Site:			
Sample #:	371034-053	Client Sample #:	SS102-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:00	Site:			
Sample #:	371034-054	Client Sample #:	SS102-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:02	Site:			
Sample #:	371034-055	Client Sample #:	SS103-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**146**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**5.47**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:03	Site:			
Sample #:	371034-056	Client Sample #:	SS103-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:04	Site:			
Sample #:	371034-057	Client Sample #:	SS103-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:05	Site:			
Sample #:	371034-058	Client Sample #:	SS104-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**35.9**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**4.63**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:06	Site:			
Sample #:	371034-059	Client Sample #:	SS104-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:07	Site:			
Sample #:	371034-060	Client Sample #:	SS104-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:09	Site:			
Sample #:	371034-061	Client Sample #:	SS96-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	154	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	7.34	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:10	Site:			
Sample #:	371034-062	Client Sample #:	SS96-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:11	Site:			
Sample #:	371034-063	Client Sample #:	SS96-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:14	Site:			
Sample #:	371034-064	Client Sample #:	SS101-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	104	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	21.1	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:15	Site:			
Sample #:	371034-065	Client Sample #:	SS101-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:16	Site:			
Sample #:	371034-066	Client Sample #:	SS101-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:18	Site:			
Sample #:	371034-067	Client Sample #:	SS95-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**112**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**5.24**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:20	Site:			
Sample #:	371034-068	Client Sample #:	SS95-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:21	Site:			
Sample #:	371034-069	Client Sample #:	SS95-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:24	Site:			
Sample #:	371034-070	Client Sample #:	SS94-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168666		
Lead	**24.8**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**10.7**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:25	Site:			
Sample #:	371034-071	Client Sample #:	SS94-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:26	Site:			
Sample #:	371034-072	Client Sample #:	SS94-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 10:39	**Site:**			
Sample #:	**371034-073**	**Client Sample #:**	SS31-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID: QC1168666		
Lead	**29.4**	1	0.32	0.5	mg/Kg	06/25/16	06/28/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3050B							QCBatchID: QC1168709		
Arsenic	**9.53**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	
Method: EPA 8015B *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC* Prep Method: EPA 5035							QCBatchID: QC1168647		
TPH Gasoline	ND	1.09	0.17331	3.27	mg/Kg		06/25/16	TT	
Surrogate	*% Recovery*		*Limits*		*Notes*				
4-Bromofluorobenzene (SUR)	*95*		*60-140*						
Method: EPA 8082 *NELAC* Prep Method:							QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC* Prep Method: EPA 5035							QCBatchID: QC1168642		
1,1,1,2-Tetrachloroethane	ND	1.14	0.2736	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,1-Trichloroethane	ND	1.14	0.171	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.14	0.3306	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2-Trichloroethane	ND	1.14	0.2508	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.14	0.8436	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloroethane	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloroethene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloropropene	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,3-Trichloropropane	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.14	0.3762	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.14	0.3192	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dibromoethane	ND	1.14	0.1368	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichloroethane	ND	1.14	0.1596	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichloropropane	ND	1.14	0.3876	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,3-Dichlorobenzene	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,3-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
1,4-Dichlorobenzene	ND	1.14	0.2736	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
2,2-Dichloropropane	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
2-Butanone (MEK)	ND	1.14	0.8208	114	ug/Kg	06/25/16	06/26/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.14	0.342	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
2-Chlorotoluene	ND	1.14	0.285	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
4-Chlorotoluene	ND	1.14	0.2508	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
4-Isopropyltoluene	ND	1.14	0.3078	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.14	0.1938	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Acetone	ND	1.14	11.4	114	ug/Kg	06/25/16	06/26/16	ZZ	
Allyl Chloride	ND	1.14	0.1596	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Benzene	**1.2 J**	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromobenzene	ND	1.14	0.342	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromochloromethane	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromodichloromethane	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromoform	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Bromomethane	ND	1.14	0.2508	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Carbon Tetrachloride	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chlorobenzene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chlorodibromomethane	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 10:39	**Site:**			
Sample #:	**371034-073**	**Client Sample #:**	SS31-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Chloroethane	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chloroform	ND	1.14	0.1938	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Chloromethane	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,2-Dichloroethene	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,3-dichloropropene	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Dibromomethane	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Dichlorodifluoromethane	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Ethylbenzene	ND	1.14	0.285	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.14	0.4788	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Hexachlorobutadiene	ND	1.14	0.4332	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Isopropylbenzene	ND	1.14	0.1938	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
m and p-Xylene	ND	1.14	0.2394	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Methylene chloride	ND	1.14	0.2508	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.14	0.285	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Naphthalene	ND	1.14	0.3192	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
N-butylbenzene	ND	1.14	0.1824	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
N-propylbenzene	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
o-Xylene	ND	1.14	0.1482	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Sec-butylbenzene	ND	1.14	0.3876	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Styrene	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.14	10.032	11.4	ug/Kg	06/25/16	06/26/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.14	0.2166	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Tert-butylbenzene	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Tetrachloroethene	ND	1.14	0.228	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Toluene	**0.57 J**	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,2-dichloroethene	ND	1.14	0.2622	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,3-dichloropropene	ND	1.14	0.1596	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.14	0.4332	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Trichloroethene	ND	1.14	0.4446	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Trichlorofluoromethane	ND	1.14	0.285	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Vinyl Chloride	ND	1.14	0.2052	5.7	ug/Kg	06/25/16	06/26/16	ZZ	
Xylenes (Total)	ND	1.14	0.513	5.7	ug/Kg	06/25/16	06/26/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*120*	*70-145*	
4-Bromofluorobenzene (SUR)	*103*	*70-145*	
Dibromodifluoromethane (SUR)	*108*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 10:45	**Site:**			
Sample #:	**371034-074**	**Client Sample #:**	SS31-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:48	Site:			
Sample #:	371034-075	Client Sample #:	SS31-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:52	Site:			
Sample #:	371034-076	Client Sample #:	SS26-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168682		
Lead	**30.2**	1	0.32	0.5	mg/Kg	06/27/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**5.79**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:53	Site:			
Sample #:	371034-077	Client Sample #:	SS26-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:54	Site:			
Sample #:	371034-078	Client Sample #:	SS26-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 10:57	Site:			
Sample #:	371034-079	Client Sample #:	SS25-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168682		
Lead	**54.6**	1	0.32	0.5	mg/Kg	06/27/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**4.71**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 11:00	Site:			
Sample #:	371034-080	Client Sample #:	SS25-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 11:03	Site:			
Sample #:	371034-081	Client Sample #:	SS25-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 11:09	**Site:**			
Sample #:	**371034-082**	**Client Sample #:**	SS28-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168682		
Lead	**29.9**	1	0.32	0.5	mg/Kg	06/27/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**8.54**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID: QC1168647		
TPH Gasoline	ND	1.04	0.16536	3.12	mg/Kg		06/25/16	TT	
Surrogate	*% Recovery*		*Limits*		*Notes*				
4-Bromofluorobenzene (SUR)	*90*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID: QC1168642		
1,1,1,2-Tetrachloroethane	ND	1.04	0.2496	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,1-Trichloroethane	ND	1.04	0.156	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.04	0.3016	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2-Trichloroethane	ND	1.04	0.2288	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.04	0.7696	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloroethane	ND	1.04	0.2392	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloroethene	ND	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloropropene	ND	1.04	0.2184	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,3-Trichloropropane	ND	1.04	0.208	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.04	0.3432	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.04	0.2912	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.04	0.208	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dibromoethane	ND	1.04	0.1248	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichlorobenzene	ND	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichloroethane	ND	1.04	0.1456	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichloropropane	ND	1.04	0.3536	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.04	0.2392	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,3-Dichlorobenzene	ND	1.04	0.2184	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,3-Dichloropropane	ND	1.04	0.1976	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
1,4-Dichlorobenzene	ND	1.04	0.2496	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
2,2-Dichloropropane	ND	1.04	0.1976	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
2-Butanone (MEK)	**1.7 J**	1.04	0.7488	104	ug/Kg	06/25/16	06/26/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.04	0.312	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
2-Chlorotoluene	ND	1.04	0.26	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
4-Chlorotoluene	ND	1.04	0.2288	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
4-Isopropyltoluene	ND	1.04	0.2808	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1.04	0.1768	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Acetone	**12 J**	1.04	10.4	104	ug/Kg	06/25/16	06/26/16	ZZ	
Allyl Chloride	ND	1.04	0.1456	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Benzene	**1.3 J**	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Bromobenzene	ND	1.04	0.312	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Bromochloromethane	ND	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Bromodichloromethane	ND	1.04	0.208	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Bromoform	ND	1.04	0.1976	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Bromomethane	ND	1.04	0.2288	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Carbon Tetrachloride	ND	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Chlorobenzene	ND	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Chlorodibromomethane	ND	1.04	0.1976	5.2	ug/Kg	06/25/16	06/26/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 11:09	**Site:**			
Sample #:	**371034-082**	**Client Sample #:**	SS28-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Chloroethane	ND	1.04	0.208	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Chloroform	ND	1.04	0.1768	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Chloromethane	ND	1.04	0.2184	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,2-Dichloroethene	ND	1.04	0.208	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,3-dichloropropene	ND	1.04	0.208	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.04	0.208	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Dibromomethane	ND	1.04	0.2392	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Dichlorodifluoromethane	ND	1.04	0.2392	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.04	0.2184	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Ethylbenzene	ND	1.04	0.26	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.04	0.4368	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Hexachlorobutadiene	ND	1.04	0.3952	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Isopropylbenzene	ND	1.04	0.1768	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
m and p-Xylene	**1.1 J**	1.04	0.2184	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Methylene chloride	**0.68 J**	1.04	0.2288	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.04	0.26	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Naphthalene	ND	1.04	0.2912	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
N-butylbenzene	ND	1.04	0.1664	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
N-propylbenzene	ND	1.04	0.1976	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
o-Xylene	**0.40 J**	1.04	0.1352	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Sec-butylbenzene	ND	1.04	0.3536	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Styrene	ND	1.04	0.2392	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.04	9.152	10.4	ug/Kg	06/25/16	06/26/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.04	0.1976	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Tert-butylbenzene	ND	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Tetrachloroethene	ND	1.04	0.208	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Toluene	**0.62 J**	1.04	0.2392	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,2-dichloroethene	ND	1.04	0.2392	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,3-dichloropropene	ND	1.04	0.1456	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.04	0.3952	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Trichloroethene	ND	1.04	0.4056	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Trichlorofluoromethane	ND	1.04	0.26	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Vinyl Chloride	ND	1.04	0.1872	5.2	ug/Kg	06/25/16	06/26/16	ZZ	
Xylenes (Total)	**1.5 J**	1.04	0.468	5.2	ug/Kg	06/25/16	06/26/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*118*	*70-145*	
4-Bromofluorobenzene (SUR)	*105*	*70-145*	
Dibromodifluoromethane (SUR)	*107*	*70-145*	
Toluene-d8 (SUR)	*106*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 11:10	**Site:**			
Sample #:	**371034-083**	**Client Sample #:**	SS28-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 11:11	Site:			
Sample #:	371034-084	Client Sample #:	SS28-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 11:13	Site:			
Sample #:	371034-085	Client Sample #:	SS93-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168682		
Lead	**190**	1	0.32	0.5	mg/Kg	06/27/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**3.23**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 11:16	Site:			
Sample #:	371034-086	Client Sample #:	SS93-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016 11:19	Site:			
Sample #:	371034-087	Client Sample #:	SS93-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 11:22	**Site:**			
Sample #:	**371034-088**	**Client Sample #:**	SS27-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168682		
Lead	**117**	1	0.32	0.5	mg/Kg	06/27/16	06/28/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1168709		
Arsenic	**14.5**	10	0.2	3	mg/Kg	06/27/16	07/01/16	KLN	
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8015B *NELAC*	Prep Method: EPA 5035						QCBatchID: QC1168647		
TPH Gasoline	ND	1.39	0.22101	4.17	mg/Kg		06/25/16	TT	
Surrogate	*% Recovery*		*Limits*		*Notes*				
4-Bromofluorobenzene (SUR)	*92*		*60-140*						
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8260B *NELAC*	Prep Method: EPA 5035						QCBatchID: QC1168642		
1,1,1,2-Tetrachloroethane	ND	1.09	0.2616	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,1-Trichloroethane	ND	1.09	0.1635	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1.09	0.3161	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2-Trichloroethane	ND	1.09	0.2398	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1.09	0.8066	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloroethane	ND	1.09	0.2507	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloroethene	ND	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,1-Dichloropropene	ND	1.09	0.2289	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,3-Trichlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,3-Trichloropropane	ND	1.09	0.218	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,4-Trichlorobenzene	ND	1.09	0.3597	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2,4-Trimethylbenzene	ND	1.09	0.3052	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1.09	0.218	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dibromoethane	ND	1.09	0.1308	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichloroethane	ND	1.09	0.1526	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,2-Dichloropropane	ND	1.09	0.3706	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,3,5-Trimethylbenzene	ND	1.09	0.2507	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,3-Dichlorobenzene	ND	1.09	0.2289	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,3-Dichloropropane	ND	1.09	0.2071	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
1,4-Dichlorobenzene	ND	1.09	0.2616	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
2,2-Dichloropropane	ND	1.09	0.2071	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
2-Butanone (MEK)	**2.8 J**	1.09	0.7848	109	ug/Kg	06/25/16	06/26/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1.09	0.327	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
2-Chlorotoluene	ND	1.09	0.2725	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
4-Chlorotoluene	ND	1.09	0.2398	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
4-Isopropyltoluene	ND	1.09	0.2943	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
4-Methyl-2-pentanone (MIBK)	**1.2 J**	1.09	0.1853	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Acetone	**29 J**	1.09	10.9	109	ug/Kg	06/25/16	06/26/16	ZZ	
Allyl Chloride	ND	1.09	0.1526	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Benzene	**1.1 J**	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Bromobenzene	ND	1.09	0.327	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Bromochloromethane	ND	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Bromodichloromethane	ND	1.09	0.218	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Bromoform	ND	1.09	0.2071	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Bromomethane	ND	1.09	0.2398	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Carbon Tetrachloride	ND	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Chlorobenzene	ND	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Chlorodibromomethane	ND	1.09	0.2071	5.45	ug/Kg	06/25/16	06/26/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 11:22	**Site:**			
Sample #:	**371034-088**	**Client Sample #:**	SS27-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Chloroethane	ND	1.09	0.218	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Chloroform	ND	1.09	0.1853	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Chloromethane	ND	1.09	0.2289	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,2-Dichloroethene	ND	1.09	0.218	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,3-dichloropropene	ND	1.09	0.218	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1.09	0.218	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Dibromomethane	ND	1.09	0.2507	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Dichlorodifluoromethane	ND	1.09	0.2507	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1.09	0.2289	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Ethylbenzene	ND	1.09	0.2725	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1.09	0.4578	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Hexachlorobutadiene	ND	1.09	0.4142	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Isopropylbenzene	ND	1.09	0.1853	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
m and p-Xylene	**0.26 J**	1.09	0.2289	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Methylene chloride	**1.1 J**	1.09	0.2398	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1.09	0.2725	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Naphthalene	ND	1.09	0.3052	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
N-butylbenzene	ND	1.09	0.1744	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
N-propylbenzene	ND	1.09	0.2071	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
o-Xylene	ND	1.09	0.1417	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Sec-butylbenzene	ND	1.09	0.3706	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Styrene	ND	1.09	0.2507	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
t-Butyl alcohol (TBA)	ND	1.09	9.592	10.9	ug/Kg	06/25/16	06/26/16	ZZ	
Tert-amylmethylether (TAME)	ND	1.09	0.2071	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Tert-butylbenzene	ND	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Tetrachloroethene	ND	1.09	0.218	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Toluene	**0.79 J**	1.09	0.2507	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,2-dichloroethene	ND	1.09	0.2507	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,3-dichloropropene	ND	1.09	0.1526	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1.09	0.4142	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Trichloroethene	ND	1.09	0.4251	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Trichlorofluoromethane	ND	1.09	0.2725	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Vinyl Chloride	ND	1.09	0.1962	5.45	ug/Kg	06/25/16	06/26/16	ZZ	
Xylenes (Total)	ND	1.09	0.4905	5.45	ug/Kg	06/25/16	06/26/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*119*	*70-145*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromodifluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 11:24	**Site:**			
Sample #:	**371034-089**	**Client Sample #:**	SS27-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016 11:25	**Site:**			
Sample #:	**371034-090**	**Client Sample #:**	SS27-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371034-091**	**Client Sample #:**	EQBL624	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3010A							QCBatchID:	QC1168717	
Lead	ND	1	0.004	0.005	mg/L	06/28/16	07/01/16	JN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3010A							QCBatchID:	QC1168702	
Arsenic	ND	1	0.13	2	ug/L	06/24/16	06/28/16	KLN	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030B							QCBatchID:	QC1168646	
TPH Gasoline	ND	1	6.6	50	ug/L		06/25/16	TT	
Surrogate	*% Recovery*		*Limits*		*Notes*				
4-Bromofluorobenzene (SUR)	*96*		*60-140*						
Method: EPA 8260B *NELAC* Prep Method: EPA 5030B							QCBatchID:	QC1168653	
1,1,1,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/25/16	06/26/16	LZ	
1,1,1-Trichloroethane	ND	1	0.38	5	ug/L	06/25/16	06/26/16	LZ	
1,1,2,2-Tetrachloroethane	ND	1	0.25	5	ug/L	06/25/16	06/26/16	LZ	
1,1,2-Trichloroethane	ND	1	0.25	5	ug/L	06/25/16	06/26/16	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	0.29	5	ug/L	06/25/16	06/26/16	LZ	
1,1-Dichloroethane	ND	1	0.32	5	ug/L	06/25/16	06/26/16	LZ	
1,1-Dichloroethene	ND	1	0.3	5	ug/L	06/25/16	06/26/16	LZ	
1,1-Dichloropropene	ND	1	0.25	5	ug/L	06/25/16	06/26/16	LZ	
1,2,3-Trichlorobenzene	ND	1	0.28	5	ug/L	06/25/16	06/26/16	LZ	
1,2,3-Trichloropropane	ND	1	0.16	5	ug/L	06/25/16	06/26/16	LZ	
1,2,4-Trichlorobenzene	ND	1	0.27	5	ug/L	06/25/16	06/26/16	LZ	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/L	06/25/16	06/26/16	LZ	
1,2-Dibromo-3-chloropropane	ND	1	0.12	5	ug/L	06/25/16	06/26/16	LZ	
1,2-Dibromoethane	ND	1	0.19	5	ug/L	06/25/16	06/26/16	LZ	
1,2-Dichlorobenzene	ND	1	0.26	5	ug/L	06/25/16	06/26/16	LZ	
1,2-Dichloroethane	ND	1	0.2	5	ug/L	06/25/16	06/26/16	LZ	
1,2-Dichloropropane	ND	1	0.36	5	ug/L	06/25/16	06/26/16	LZ	
1,3,5-Trimethylbenzene	ND	1	0.24	5	ug/L	06/25/16	06/26/16	LZ	
1,3-Dichlorobenzene	ND	1	0.34	5	ug/L	06/25/16	06/26/16	LZ	
1,3-Dichloropropane	ND	1	0.19	5	ug/L	06/25/16	06/26/16	LZ	
1,4-Dichlorobenzene	ND	1	0.43	5	ug/L	06/25/16	06/26/16	LZ	
2,2-Dichloropropane	ND	1	0.32	5	ug/L	06/25/16	06/26/16	LZ	
2-Butanone (MEK)	ND	1	0.78	100	ug/L	06/25/16	06/26/16	LZ	
2-Chlorotoluene	ND	1	0.33	5	ug/L	06/25/16	06/26/16	LZ	
4-Chlorotoluene	ND	1	0.31	5	ug/L	06/25/16	06/26/16	LZ	
4-Isopropyltoluene	ND	1	0.32	5	ug/L	06/25/16	06/26/16	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	0.12	5	ug/L	06/25/16	06/26/16	LZ	
Acetone	ND	1	10	100	ug/L	06/25/16	06/26/16	LZ	
Allyl Chloride	ND	1	0.19	5	ug/L	06/25/16	06/26/16	LZ	
Benzene	ND	1	0.18	1	ug/L	06/25/16	06/26/16	LZ	
Bromobenzene	ND	1	0.53	5	ug/L	06/25/16	06/26/16	LZ	
Bromochloromethane	ND	1	0.17	5	ug/L	06/25/16	06/26/16	LZ	
Bromodichloromethane	ND	1	0.31	5	ug/L	06/25/16	06/26/16	LZ	
Bromoform	ND	1	0.13	5	ug/L	06/25/16	06/26/16	LZ	
Bromomethane	ND	1	0.68	5	ug/L	06/25/16	06/26/16	LZ	
Carbon Tetrachloride	ND	1	0.27	5	ug/L	06/25/16	06/26/16	LZ	
Chlorobenzene	ND	1	0.19	5	ug/L	06/25/16	06/26/16	LZ	
Chlorodibromomethane	ND	1	0.21	5	ug/L	06/25/16	06/26/16	LZ	
Chloroethane	ND	1	0.45	5	ug/L	06/25/16	06/26/16	LZ	
Chloroform	ND	1	0.18	5	ug/L	06/25/16	06/26/16	LZ	
Chloromethane	ND	1	0.27	5	ug/L	06/25/16	06/26/16	LZ	
cis-1,2-Dichloroethene	ND	1	0.27	5	ug/L	06/25/16	06/26/16	LZ	
cis-1,3-dichloropropene	ND	1	0.25	5	ug/L	06/25/16	06/26/16	LZ	

Matrix:	Water	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016	Site:			
Sample #:	371034-091	Client Sample #:	EQBL624	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
cis-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/25/16	06/26/16	LZ	
Dibromomethane	ND	1	0.23	5	ug/L	06/25/16	06/26/16	LZ	
Dichlorodifluoromethane	ND	1	0.33	5	ug/L	06/25/16	06/26/16	LZ	
Di-isopropyl ether (DIPE)	ND	1	0.17	1	ug/L	06/25/16	06/26/16	LZ	
Ethylbenzene	ND	1	0.21	5	ug/L	06/25/16	06/26/16	LZ	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	06/25/16	06/26/16	LZ	
Hexachlorobutadiene	ND	1	0.51	5	ug/L	06/25/16	06/26/16	LZ	
Isopropylbenzene	ND	1	0.24	5	ug/L	06/25/16	06/26/16	LZ	
m and p-Xylene	ND	1	0.45	5	ug/L	06/25/16	06/26/16	LZ	
Methylene chloride	**0.17 J**	1	0.16	5	ug/L	06/25/16	06/26/16	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	06/25/16	06/26/16	LZ	
Naphthalene	ND	1	0.25	5	ug/L	06/25/16	06/26/16	LZ	
N-butylbenzene	ND	1	0.25	5	ug/L	06/25/16	06/26/16	LZ	
N-propylbenzene	ND	1	0.31	5	ug/L	06/25/16	06/26/16	LZ	
o-Xylene	ND	1	0.29	5	ug/L	06/25/16	06/26/16	LZ	
Sec-butylbenzene	ND	1	0.32	5	ug/L	06/25/16	06/26/16	LZ	
Styrene	ND	1	0.22	5	ug/L	06/25/16	06/26/16	LZ	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	06/25/16	06/26/16	LZ	
Tert-amylmethylether (TAME)	ND	1	0.19	5	ug/L	06/25/16	06/26/16	LZ	
Tert-butylbenzene	ND	1	0.4	5	ug/L	06/25/16	06/26/16	LZ	
Tetrachloroethene	ND	1	0.8	5	ug/L	06/25/16	06/26/16	LZ	
Toluene	ND	1	0.24	5	ug/L	06/25/16	06/26/16	LZ	
trans-1,2-dichloroethene	ND	1	0.33	5	ug/L	06/25/16	06/26/16	LZ	
trans-1,3-dichloropropene	ND	1	0.23	5	ug/L	06/25/16	06/26/16	LZ	
trans-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	06/25/16	06/26/16	LZ	
Trichloroethene	ND	1	0.39	5	ug/L	06/25/16	06/26/16	LZ	
Trichlorofluoromethane	ND	1	0.25	5	ug/L	06/25/16	06/26/16	LZ	
Vinyl Chloride	ND	1	0.18	5	ug/L	06/25/16	06/26/16	LZ	
Xylenes (Total)	ND	1	0.45	5	ug/L	06/25/16	06/26/16	LZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*105*	*70-145*	
4-Bromofluorobenzene (SUR)	*114*	*70-145*	
Dibromodifluoromethane (SUR)	*93*	*70-145*	
Toluene-d8 (SUR)	*108*	*70-145*	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016	Site:			
Sample #:	371034-092	Client Sample #:	COMP 1	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	06/24/2016	Site:			
Sample #:	371034-093	Client Sample #:	COMP 6	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371034-094**	**Client Sample #:**	COMP 7	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371034-095**	**Client Sample #:**	COMP 8	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371034-096**	**Client Sample #:**	COMP 18	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371034-097**	**Client Sample #:**	COMP 21	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371034-098**	**Client Sample #:**	COMP 23	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371034-099**	**Client Sample #:**	COMP 24	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

QCBatchID: QC1168642	Analyst: lucy	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/25/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168642MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.24	5	
1,1,1-Trichloroethane	ND	ug/Kg	0.15	5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.29	5	
1,1,2-Trichloroethane	ND	ug/Kg	0.22	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg	0.74	5	
1,1-Dichloroethane	ND	ug/Kg	0.23	5	
1,1-Dichloroethene	ND	ug/Kg	0.18	5	
1,1-Dichloropropene	ND	ug/Kg	0.21	5	
1,2,3-Trichlorobenzene	ND	ug/Kg	0.18	5	
1,2,3-Trichloropropane	ND	ug/Kg	0.2	5	
1,2,4-Trichlorobenzene	ND	ug/Kg	0.33	5	
1,2,4-Trimethylbenzene	ND	ug/Kg	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg	0.2	5	
1,2-Dibromoethane	ND	ug/Kg	0.12	5	
1,2-Dichlorobenzene	ND	ug/Kg	0.18	5	
1,2-Dichloroethane	ND	ug/Kg	0.14	5	
1,2-Dichloropropane	ND	ug/Kg	0.34	5	
1,3,5-Trimethylbenzene	ND	ug/Kg	0.23	5	
1,3-Dichlorobenzene	ND	ug/Kg	0.21	5	
1,3-Dichloropropane	ND	ug/Kg	0.19	5	
1,4-Dichlorobenzene	ND	ug/Kg	0.24	5	
2,2-Dichloropropane	ND	ug/Kg	0.19	5	
2-Butanone (MEK)	ND	ug/Kg	0.72	100	
2-Chloroethyl Vinyl Ether	ND	ug/Kg	0.3	5	
2-Chlorotoluene	ND	ug/Kg	0.25	5	
4-Chlorotoluene	ND	ug/Kg	0.22	5	
4-Isopropyltoluene	ND	ug/Kg	0.27	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	0.17	5	
Acetone	ND	ug/Kg	10	100	
Allyl Chloride	ND	ug/Kg	0.14	5	
Benzene	ND	ug/Kg	0.18	5	
Bromobenzene	ND	ug/Kg	0.3	5	
Bromochloromethane	ND	ug/Kg	0.18	5	
Bromodichloromethane	ND	ug/Kg	0.2	5	
Bromoform	ND	ug/Kg	0.19	5	
Bromomethane	ND	ug/Kg	0.22	5	
Carbon Tetrachloride	ND	ug/Kg	0.18	5	
Chlorobenzene	ND	ug/Kg	0.18	5	
Chlorodibromomethane	ND	ug/Kg	0.19	5	
Chloroethane	ND	ug/Kg	0.2	5	
Chloroform	ND	ug/Kg	0.17	5	
Chloromethane	ND	ug/Kg	0.21	5	
cis-1,2-Dichloroethene	ND	ug/Kg	0.2	5	
cis-1,3-dichloropropene	ND	ug/Kg	0.2	5	
cis-1,4-dichloro-2-butene	ND	ug/Kg	0.2	5	
Dibromomethane	ND	ug/Kg	0.23	5	
Dichlorodifluoromethane	ND	ug/Kg	0.23	5	
Di-isopropyl ether (DIPE)	ND	ug/Kg	0.21	5	
Ethylbenzene	ND	ug/Kg	0.25	5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg	0.42	5	
Hexachlorobutadiene	ND	ug/Kg	0.38	5	

QCBatchID: QC1168642	Analyst: lucy	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/25/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168642MB1					
Isopropylbenzene	ND	ug/Kg	0.17	5	
m and p-Xylene	ND	ug/Kg	0.21	5	
Methylene chloride	ND	ug/Kg	0.22	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg	0.25	5	
Naphthalene	ND	ug/Kg	0.28	5	
N-butylbenzene	ND	ug/Kg	0.16	5	
N-propylbenzene	ND	ug/Kg	0.19	5	
o-Xylene	ND	ug/Kg	0.13	5	
Sec-butylbenzene	ND	ug/Kg	0.34	5	
Styrene	ND	ug/Kg	0.23	5	
t-Butyl alcohol (TBA)	ND	ug/Kg	8.8	10	
Tert-amylmethylether (TAME)	ND	ug/Kg	0.19	5	
Tert-butylbenzene	ND	ug/Kg	0.18	5	
Tetrachloroethene	ND	ug/Kg	0.2	5	
Toluene	ND	ug/Kg	0.23	5	
trans-1,2-dichloroethene	ND	ug/Kg	0.23	5	
trans-1,3-dichloropropene	ND	ug/Kg	0.14	5	
trans-1,4-dichloro-2-butene	ND	ug/Kg	0.38	5	
Trichloroethene	ND	ug/Kg	0.39	5	
Trichlorofluoromethane	ND	ug/Kg	0.25	5	
Vinyl Chloride	ND	ug/Kg	0.18	5	
Xylenes (Total)	ND	ug/Kg	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168642LCS1											
1,1-Dichloroethene	50		55		ug/Kg	110			59-172		
Benzene	50		53		ug/Kg	106			62-137		
Chlorobenzene	50		46		ug/Kg	92			60-133		
Methyl-t-butyl Ether (MTBE)	50		50		ug/Kg	100			62-137		
Toluene	50		47		ug/Kg	94			59-139		
Trichloroethene	50		46		ug/Kg	92			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168642MS1, QC1168642MSD1												**Source: 371016-001**
1,1-Dichloroethene	ND	50	50	54	49	ug/Kg	108	98	9.7	59-172	22	
Benzene	ND	50	50	55	49	ug/Kg	110	98	11.5	62-137	24	
Chlorobenzene	ND	50	50	47	45	ug/Kg	94	90	4.3	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	56	51	ug/Kg	112	102	9.3	62-137	21	
Toluene	ND	50	50	48	45	ug/Kg	96	90	6.5	59-139	21	
Trichloroethene	ND	50	50	47	43	ug/Kg	94	86	8.9	66-142	21	

QCBatchID: QC1168646	Analyst: ttran	Method: EPA 8015B
Matrix: Water	Analyzed: 06/25/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168646MB1					
TPH Gasoline	ND	ug/L	6.6	50	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168646LCS1, QC1168646LCSD1											
TPH Gasoline	500	500	435	445	ug/L	87	89	2	70-130	30	

QCBatchID: QC1168647	Analyst: ttran	Method: EPA 8015B
Matrix: Solid	Analyzed: 06/25/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168647MB1					
TPH Gasoline	ND	mg/Kg	0.159	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168647LCS1, QC1168647LCSD1											
TPH Gasoline	5	5	4.38	4.33	mg/Kg	88	87	1	70-130	20	

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168647MS1, QC1168647MSD1												**Source: 371033-001**
TPH Gasoline	ND	5	5	3.26	3.13	mg/Kg	65	63	4.1	70-130	20	M

QCBatchID: QC1168653	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 06/26/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168653MB1					
1,1,1,2-Tetrachloroethane	ND	ug/L	0.25	5	
1,1,1-Trichloroethane	ND	ug/L	0.38	5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.25	5	
1,1,2-Trichloroethane	ND	ug/L	0.25	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.29	5	
1,1-Dichloroethane	ND	ug/L	0.32	5	
1,1-Dichloroethene	ND	ug/L	0.3	5	
1,1-Dichloropropene	ND	ug/L	0.25	5	
1,2,3-Trichlorobenzene	ND	ug/L	0.28	5	
1,2,3-Trichloropropane	ND	ug/L	0.16	5	
1,2,4-Trichlorobenzene	ND	ug/L	0.27	5	
1,2,4-Trimethylbenzene	ND	ug/L	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.12	5	
1,2-Dibromoethane	ND	ug/L	0.19	5	
1,2-Dichlorobenzene	ND	ug/L	0.26	5	
1,2-Dichloroethane	ND	ug/L	0.2	5	
1,2-Dichloropropane	ND	ug/L	0.36	5	
1,3,5-Trimethylbenzene	ND	ug/L	0.24	5	
1,3-Dichlorobenzene	ND	ug/L	0.34	5	
1,3-Dichloropropane	ND	ug/L	0.19	5	
1,4-Dichlorobenzene	ND	ug/L	0.43	5	
2,2-Dichloropropane	ND	ug/L	0.32	5	
2-Butanone (MEK)	ND	ug/L	0.78	100	
2-Chlorotoluene	ND	ug/L	0.33	5	
4-Chlorotoluene	ND	ug/L	0.31	5	
4-Isopropyltoluene	ND	ug/L	0.32	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	0.12	5	
Acetone	ND	ug/L	10	100	
Allyl Chloride	ND	ug/L	0.19	5	
Benzene	ND	ug/L	0.18	1	
Bromobenzene	ND	ug/L	0.53	5	
Bromochloromethane	ND	ug/L	0.17	5	
Bromodichloromethane	ND	ug/L	0.31	5	
Bromoform	ND	ug/L	0.13	5	
Bromomethane	ND	ug/L	0.68	5	
Carbon Tetrachloride	ND	ug/L	0.27	5	
Chlorobenzene	ND	ug/L	0.19	5	
Chlorodibromomethane	ND	ug/L	0.21	5	
Chloroethane	ND	ug/L	0.45	5	
Chloroform	ND	ug/L	0.18	5	
Chloromethane	ND	ug/L	0.27	5	
cis-1,2-Dichloroethene	ND	ug/L	0.27	5	
cis-1,3-dichloropropene	ND	ug/L	0.25	5	
cis-1,4-dichloro-2-butene	ND	ug/L	0.17	5	
Dibromomethane	ND	ug/L	0.23	5	
Dichlorodifluoromethane	ND	ug/L	0.33	5	
Di-isopropyl ether (DIPE)	ND	ug/L	0.17	1	
Ethylbenzene	ND	ug/L	0.21	5	
Ethyl-tertbutylether (ETBE)	ND	ug/L	0.23	1	
Hexachlorobutadiene	ND	ug/L	0.51	5	
Isopropylbenzene	ND	ug/L	0.24	5	

QCBatchID: QC1168653	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 06/26/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168653MB1					
m and p-Xylene	ND	ug/L	0.45	5	
Methylene chloride	ND	ug/L	0.16	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L	0.19	1	
Naphthalene	ND	ug/L	0.25	5	
N-butylbenzene	ND	ug/L	0.25	5	
N-propylbenzene	ND	ug/L	0.31	5	
o-Xylene	ND	ug/L	0.29	5	
Sec-butylbenzene	ND	ug/L	0.32	5	
Styrene	ND	ug/L	0.22	5	
t-Butyl alcohol (TBA)	ND	ug/L	5.2	10	
Tert-amylmethylether (TAME)	ND	ug/L	0.19	5	
Tert-butylbenzene	ND	ug/L	0.4	5	
Tetrachloroethene	ND	ug/L	0.8	5	
Toluene	ND	ug/L	0.24	5	
trans-1,2-dichloroethene	ND	ug/L	0.33	5	
trans-1,3-dichloropropene	ND	ug/L	0.23	5	
trans-1,4-dichloro-2-butene	ND	ug/L	0.17	5	
Trichloroethene	ND	ug/L	0.39	5	
Trichlorofluoromethane	ND	ug/L	0.25	5	
Vinyl Chloride	ND	ug/L	0.18	5	
Xylenes (Total)	ND	ug/L	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168653LCS1											
1,1-Dichloroethene	50		47		ug/L	94			59-172		
Benzene	50		47		ug/L	94			62-137		
Chlorobenzene	50		47		ug/L	94			60-133		
Methyl-t-butyl Ether (MTBE)	50		44		ug/L	88			62-137		
Toluene	50		51		ug/L	102			59-139		
Trichloroethene	50		51		ug/L	102			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168653MS1, QC1168653MSD1												**Source: 371034-091**
1,1-Dichloroethene	ND	50	50	46	48	ug/L	92	96	4.3	59-172	22	
Benzene	ND	50	50	45	48	ug/L	90	96	6.5	62-137	24	
Chlorobenzene	ND	50	50	48	48	ug/L	96	96	0.0	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	39	46	ug/L	78	92	16.5	62-137	21	
Toluene	ND	50	50	51	53	ug/L	102	106	3.8	59-139	21	
Trichloroethene	ND	50	50	49	50	ug/L	98	100	2.0	66-142	21	

QCBatchID: QC1168664	Analyst: JParedes	Method: EPA 7471A
Matrix: Solid	Analyzed: 06/28/2016	Instrument: AAICP-HG1

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168664MB1					
Mercury	ND	mg/Kg	0.02	0.14	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168664LCS1											
Mercury	0.83		0.82		mg/Kg	99			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168664MS1, QC1168664MSD1												**Source: 371033-001**
Mercury	0.08	0.83	0.83	0.86	0.89	mg/Kg	94	98	3.4	75-125	20	

QCBatchID: QC1168666	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168666MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	**1.15**	mg/Kg	0.72	1	B
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168666LCS1											
Antimony	200		204		mg/Kg	102			80-120		
Arsenic	200		194		mg/Kg	97			80-120		
Barium	200		221		mg/Kg	111			80-120		
Beryllium	200		184		mg/Kg	92			80-120		
Cadmium	200		217		mg/Kg	109			80-120		
Chromium	200		211		mg/Kg	106			80-120		
Cobalt	200		199		mg/Kg	100			80-120		
Copper	200		206		mg/Kg	103			80-120		
Lead	200		192		mg/Kg	96			80-120		
Molybdenum	200		200		mg/Kg	100			80-120		
Nickel	200		196		mg/Kg	98			80-120		
Selenium	200		190		mg/Kg	95			80-120		
Silver	100		92.8		mg/Kg	93			80-120		
Thallium	200		195		mg/Kg	98			80-120		
Vanadium	200		217		mg/Kg	109			80-120		
Zinc	200		195		mg/Kg	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168666MS1, QC1168666MSD1												**Source: 371033-001**
Antimony	ND	100	100	34.6	33.2	mg/Kg	35	33	4.1	75-125	20	M
Arsenic	5.24	100	100	101	100	mg/Kg	96	95	1.0	75-125	20	
Barium	108	100	100	208	196	mg/Kg	100	88	5.9	75-125	20	
Beryllium	ND	100	100	87.3	91.4	mg/Kg	87	91	4.6	75-125	20	
Cadmium	0.76	100	100	98.6	94.3	mg/Kg	98	94	4.5	75-125	20	
Chromium	15.7	100	100	122	109	mg/Kg	106	93	11.3	75-125	20	
Cobalt	11.5	100	100	106	99.9	mg/Kg	95	88	5.9	75-125	20	
Copper	18.1	100	100	121	111	mg/Kg	103	93	8.6	75-125	20	
Lead	33.6	100	100	121	120	mg/Kg	87	86	0.8	75-125	20	

QCBatchID: QC1168666	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168666MS1, QC1168666MSD1											**Source:**	**371033-001**
Molybdenum	1.04	100	100	90.0	88.7	mg/Kg	89	88	1.5	75-125	20	
Nickel	10.9	100	100	109	101	mg/Kg	98	90	7.6	75-125	20	
Selenium	ND	100	100	72.4	69.2	mg/Kg	72	69	4.5	75-125	20	M
Silver	ND	50	50	45.2	42.4	mg/Kg	90	85	6.4	75-125	20	
Thallium	ND	100	100	88.7	87.6	mg/Kg	89	88	1.2	75-125	20	
Vanadium	34.9	100	100	136	128	mg/Kg	101	93	6.1	75-125	20	
Zinc	117	100	100	201	199	mg/Kg	84	82	1.0	75-125	20	

QCBatchID:	QC1168682	Analyst:	jeannynguye	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	06/29/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168682MB1					
Lead	**0.47 J**	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168682LCS1											
Lead	200		233		mg/Kg	117			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168682MS1, QC1168682MSD1												**Source: 371006-159**
Lead	131	100	100	226	217	mg/Kg	95	86	4.1	75-125	20	

QCBatchID: QC1168702	Analyst: kedy	Method: EPA 6020
Matrix: Water	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168702MB1					
Arsenic	ND	ug/L	0.13	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168702LCS1											
Arsenic	50		45.8		ug/L	92			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168702MS1, QC1168702MSD1												**Source: 370943-076**
Arsenic	ND	50	50	46.3	48.6	ug/L	93	97	4.8	75-125	20	

QCBatchID:	QC1168708	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	06/29/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168708MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168708LCS1											
Arsenic	200		222		mg/Kg	111			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168708MS1, QC1168708MSD1												**Source: 371006-131**
Arsenic	2.52	200	200	181	201	mg/Kg	89	99	10.5	75-125	20	

QCBatchID:	QC1168709	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	06/29/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168709MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168709LCS1											
Arsenic	100		108		mg/Kg	108			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168709MS1, QC1168709MSD1												**Source: 371034-046**
Arsenic	1.640	50	50	37.5	38.8	mg/Kg	72	74	3.4	75-125	20	M

QCBatchID: QC1168717	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Water	Analyzed: 06/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1168717MB1					
Antimony	ND	mg/L	0.016	0.02	
Arsenic	ND	mg/L	0.004	0.01	
Barium	ND	mg/L	0.001	0.01	
Beryllium	ND	mg/L	0.001	0.005	
Cadmium	ND	mg/L	0.001	0.005	
Chromium	ND	mg/L	0.002	0.01	
Cobalt	ND	mg/L	0.001	0.005	
Copper	ND	mg/L	0.001	0.01	
Lead	ND	mg/L	0.004	0.005	
Molybdenum	ND	mg/L	0.002	0.01	
Nickel	ND	mg/L	0.001	0.02	
Selenium	ND	mg/L	0.004	0.01	
Silver	ND	mg/L	0.001	0.005	
Thallium	ND	mg/L	0.003	0.005	
Vanadium	ND	mg/L	0.003	0.005	
Zinc	ND	mg/L	0.002	0.02	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168717LCS1											
Antimony	2		2.12		mg/L	106			80-120		
Arsenic	2		1.93		mg/L	97			80-120		
Barium	2		2.11		mg/L	106			80-120		
Beryllium	2		1.90		mg/L	95			80-120		
Cadmium	2		2.13		mg/L	107			80-120		
Chromium	2		2.06		mg/L	103			80-120		
Cobalt	2		2.08		mg/L	104			80-120		
Copper	2		1.94		mg/L	97			80-120		
Lead	2		1.92		mg/L	96			80-120		
Molybdenum	2		1.93		mg/L	97			80-120		
Nickel	2		1.94		mg/L	97			80-120		
Selenium	2		1.84		mg/L	92			80-120		
Silver	1		0.989		mg/L	99			80-120		
Thallium	2		1.84		mg/L	92			80-120		
Vanadium	2		2.04		mg/L	102			80-120		
Zinc	2		2.03		mg/L	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1168717MS1, QC1168717MSD1												**Source: 371006-162**
Antimony	ND	1	1	1.03	1.06	mg/L	103	106	2.9	75-125	20	
Arsenic	0.007	1	1	0.950	0.991	mg/L	94	98	4.2	75-125	20	
Barium	ND	1	1	1.08	1.11	mg/L	108	111	2.7	75-125	20	
Beryllium	ND	1	1	0.993	1.01	mg/L	99	101	1.7	75-125	20	
Cadmium	ND	1	1	1.08	1.10	mg/L	108	110	1.8	75-125	20	
Chromium	ND	1	1	1.05	1.07	mg/L	105	107	1.9	75-125	20	
Cobalt	ND	1	1	1.07	1.09	mg/L	107	109	1.9	75-125	20	
Copper	0.007	1	1	0.983	1.00	mg/L	98	99	1.7	75-125	20	
Lead	ND	1	1	1.01	1.05	mg/L	101	105	3.9	75-125	20	

QCBatchID: QC1168717	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Water	Analyzed: 06/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168717MS1, QC1168717MSD1												**Source: 371006-162**
Molybdenum	0.004	1	1	1.03	1.04	mg/L	103	104	1.0	75-125	20	
Nickel	ND	1	1	0.999	1.02	mg/L	100	102	2.1	75-125	20	
Selenium	ND	1	1	0.915	0.949	mg/L	92	95	3.6	75-125	20	
Silver	ND	0.5	0.5	0.487	0.495	mg/L	97	99	1.6	75-125	20	
Thallium	0.005	1	1	0.992	1.03	mg/L	99	103	3.8	75-125	20	
Vanadium	ND	1	1	1.06	1.05	mg/L	106	105	0.9	75-125	20	
Zinc	0.009	1	1	1.02	1.05	mg/L	101	104	2.9	75-125	20	

QCBatchID: QC1169049	Analyst: lytagas	Method: EPA 8015B
Matrix: Solid	Analyzed: 07/14/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169049MB1					
TPH Gasoline	ND	mg/Kg	0.159	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169049LCS1											
TPH Gasoline	5		4.70		mg/Kg	94			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169049MS1, QC1169049MSD1												**Source: 371034-003**
TPH Gasoline	ND	5	5	4.51	4.46	mg/Kg	90	89	1.1	70-130	20	

QCBatchID: QC1169051	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 07/14/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169051MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.24	5	
1,1,1-Trichloroethane	ND	ug/Kg	0.15	5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.29	5	
1,1,2-Trichloroethane	ND	ug/Kg	0.22	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg	0.74	5	
1,1-Dichloroethane	ND	ug/Kg	0.23	5	
1,1-Dichloroethene	ND	ug/Kg	0.18	5	
1,1-Dichloropropene	ND	ug/Kg	0.21	5	
1,2,3-Trichlorobenzene	ND	ug/Kg	0.18	5	
1,2,3-Trichloropropane	ND	ug/Kg	0.2	5	
1,2,4-Trichlorobenzene	ND	ug/Kg	0.33	5	
1,2,4-Trimethylbenzene	ND	ug/Kg	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg	0.2	5	
1,2-Dibromoethane	ND	ug/Kg	0.12	5	
1,2-Dichlorobenzene	ND	ug/Kg	0.18	5	
1,2-Dichloroethane	ND	ug/Kg	0.14	5	
1,2-Dichloropropane	ND	ug/Kg	0.34	5	
1,3,5-Trimethylbenzene	ND	ug/Kg	0.23	5	
1,3-Dichlorobenzene	ND	ug/Kg	0.21	5	
1,3-Dichloropropane	ND	ug/Kg	0.19	5	
1,4-Dichlorobenzene	ND	ug/Kg	0.24	5	
2,2-Dichloropropane	ND	ug/Kg	0.19	5	
2-Butanone (MEK)	ND	ug/Kg	0.72	100	
2-Chloroethyl Vinyl Ether	ND	ug/Kg	0.3	5	
2-Chlorotoluene	ND	ug/Kg	0.25	5	
4-Chlorotoluene	ND	ug/Kg	0.22	5	
4-Isopropyltoluene	ND	ug/Kg	0.27	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	0.17	5	
Acetone	ND	ug/Kg	10	100	
Allyl Chloride	ND	ug/Kg	0.14	5	
Benzene	ND	ug/Kg	0.18	5	
Bromobenzene	ND	ug/Kg	0.3	5	
Bromochloromethane	ND	ug/Kg	0.18	5	
Bromodichloromethane	ND	ug/Kg	0.2	5	
Bromoform	ND	ug/Kg	0.19	5	
Bromomethane	ND	ug/Kg	0.22	5	
Carbon Tetrachloride	ND	ug/Kg	0.18	5	
Chlorobenzene	ND	ug/Kg	0.18	5	
Chlorodibromomethane	ND	ug/Kg	0.19	5	
Chloroethane	ND	ug/Kg	0.2	5	
Chloroform	ND	ug/Kg	0.17	5	
Chloromethane	ND	ug/Kg	0.21	5	
cis-1,2-Dichloroethene	ND	ug/Kg	0.2	5	
cis-1,3-dichloropropene	ND	ug/Kg	0.2	5	
cis-1,4-dichloro-2-butene	ND	ug/Kg	0.2	5	
Dibromomethane	ND	ug/Kg	0.23	5	
Dichlorodifluoromethane	ND	ug/Kg	0.23	5	
Di-isopropyl ether (DIPE)	ND	ug/Kg	0.21	5	
Ethylbenzene	ND	ug/Kg	0.25	5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg	0.42	5	
Hexachlorobutadiene	ND	ug/Kg	0.38	5	

QCBatchID: QC1169051	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 07/14/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169051MB1					
Isopropylbenzene	ND	ug/Kg	0.17	5	
m and p-Xylene	ND	ug/Kg	0.21	5	
Methylene chloride	ND	ug/Kg	0.22	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg	0.25	5	
Naphthalene	ND	ug/Kg	0.28	5	
N-butylbenzene	ND	ug/Kg	0.16	5	
N-propylbenzene	ND	ug/Kg	0.19	5	
o-Xylene	ND	ug/Kg	0.13	5	
Sec-butylbenzene	ND	ug/Kg	0.34	5	
Styrene	ND	ug/Kg	0.23	5	
t-Butyl alcohol (TBA)	ND	ug/Kg	8.8	10	
Tert-amylmethylether (TAME)	ND	ug/Kg	0.19	5	
Tert-butylbenzene	ND	ug/Kg	0.18	5	
Tetrachloroethene	ND	ug/Kg	0.2	5	
Toluene	ND	ug/Kg	0.23	5	
trans-1,2-dichloroethene	ND	ug/Kg	0.23	5	
trans-1,3-dichloropropene	ND	ug/Kg	0.14	5	
trans-1,4-dichloro-2-butene	ND	ug/Kg	0.38	5	
Trichloroethene	ND	ug/Kg	0.39	5	
Trichlorofluoromethane	ND	ug/Kg	0.25	5	
Vinyl Chloride	ND	ug/Kg	0.18	5	
Xylenes (Total)	ND	ug/Kg	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169051LCS1											
1,1-Dichloroethene	50		60		ug/Kg	120			59-172		
Benzene	50		54		ug/Kg	108			62-137		
Chlorobenzene	50		56		ug/Kg	112			60-133		
Methyl-t-butyl Ether (MTBE)	50		56		ug/Kg	112			62-137		
Toluene	50		56		ug/Kg	112			59-139		
Trichloroethene	50		57		ug/Kg	114			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169051MS1, QC1169051MSD1												**Source: 371034-003**
1,1-Dichloroethene	ND	50	50	53	50	ug/Kg	106	100	5.8	59-172	22	
Benzene	ND	50	50	51	49	ug/Kg	102	98	4.0	62-137	24	
Chlorobenzene	ND	50	50	53	52	ug/Kg	106	104	1.9	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	53	54	ug/Kg	106	108	1.9	62-137	21	
Toluene	ND	50	50	52	50	ug/Kg	104	100	3.9	59-139	21	
Trichloroethene	ND	50	50	50	50	ug/Kg	100	100	0.0	66-142	21	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371034 Page: 1 of 10	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)	Title 22 metals 6010			Test Instructions / Comments
1	SS58-1.5	6/24	0718	Soil	1x Sleeve	None											Archive & Hold
2	SS58-5.5		0720														Archive & Hold
3	SS58-10.5		0722								X	X	X				
4	SS106-0.5		0724				X	X			X	X	X				NO TPH or PCB analysis EE
5	SS106-1.5		0725														Archive & Hold
6	SS106-2.5		0726														Archive & Hold
7	SS59-1.5		0728														Archive & Hold
8	SS59-5.5		0730														Archive & Hold
9	SS59-10.5		0732								X	X	X				
10	SS66-0.5		0733	Soil	1x sleeve 5x VOA		X			X	X	X		X			

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	06242016 1400
1 Received By:	[signature]	L. Marroletti		6/24/16 1400
2 Relinquished By:	[signature]	L. Marroletti		6/24/16 1542
2 Received By:	[signature]	ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371034 Page: 2 of 10	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS66 - 1.5	6/24/2016	0734	Soil	1xsleeve												Archive & Hold
2	SS66 - 2.5		0735														Archive & Hold
3	SS105 - 0.5		0743				X	X									
4	SS105 - 1.5		0744														Archive & Hold
5	SS105 - 2.5		0745														Archive & Hold
6	SS65 - 1.5		0805														Archive & Hold
7	SS65 - 5.5		0807														Archive & Hold
8	SS65 - 10.5		0810		1xsleeve 5xVOA					X	X	X	X				
9	SS81 - 0.5		0815		1xsleeve		X	X									
10	SS81 - 1.5		0816														Archive & Hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	06/24/2016 1400
1 Received By:	[signature]	L. Marrokti		6/24/16 1400
2 Relinquished By:	[signature]	L. Marrokti		6/24/16 1542
2 Received By:	[signature]	ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371034 Page: 3 of 10	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS81-2.5	6/24/16	0817	Soi	1xSleeve	None											Archive & Hold
2	SS64-1.5		0824														Archive & Hold
3	SS64-5.5		0825														Archive & Hold
4	SS64-10.5		0826		1xSleeve SeaWa					X	X	X	X				
5	SS84-0.5		0832		1xSleeve	None	X	X									
6	SS84-1.5		0833														Archive & hold
7	SS84-2.5		0834														Archive & hold
8	SS83-0.5		0850		1xSleeve		X	X									
9	SS83-1.5		0851														Archive & hold
10	SS83-2.5		0852														Archive & hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	062416 / 1400
1 Received By:	[signature]	L. Marrokett		6/24/16 1400
2 Relinquished By:	[signature]	L. Marrokett		6/24/16 1542
2 Received By:	[signature]	ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 3A1034 Page: 4 of 10	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS82-0.5	6/24	0903	Soil	1xSleeve	NW	X	X									
2	SS82-1.5		0904														Archive & hold
3	SS82-2.5		0905														Archive & hold
4	SS57-0.5		0901		1 sleeve 5x VOA					X	X	X	X				
5	SS57-1.5		0902		1 sleeve	NONE											Archive & hold
6	SS57-2.5		0903														Archive & hold
7	SS1-0.5		0931				X	X									
8	SS1-1.5		0932														Archive & hold
9	SS1-2.5		0933														Archive & hold
10	SS2-0.5		0936				X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	062416 1400
1 Received By:	[signature]	L. Marrolett		6/24/16 1400
2 Relinquished By:	[signature]	L. Marrolett		6/24/16 1542
2 Received By:	[signature]	ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371034 Page: 5 of 10	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS2-1.5	6/24/16	0938	Soil	1x Sleeve	none											Hold & Archive
2	SS2-2.5	6/24/16	0940														Archive & hold
3	SS5-0.5		0934		1 sleeve SV VOA					X	X	X	X				
4	SS5-1.5		0935		1x sleeve ~~SV VOA~~												Archive & hold
5	SS5-2.5		0936		1x Sleeve												Archive & hold
6	SS30-0.5		0942				X	X									
7	SS30-1.5		0945														Archive & hold
8	SS30-2.5		0946														Archive & hold
9	~~SS29-0.5~~ FF SS29-0.5		0951				X	X									
10	~~SS29-1.5~~ FF SS29-1.5		0952														Archive & hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	06/24/2016 1400
1 Received By:	[signature]	L. Marrolatti		6/24/16 1400
2 Relinquished By:	[signature]	L. Marrolatti		6/24/16 1542
2 Received By:	[signature]	ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 371034

Page: 6 of 10

Turn Around Time (Rush by advanced notice only)

Standard:	X	4 Day:		3 Day:	
2 Day:		1 Day:		Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS29-2.5	6/23	0954	Soil	1xSleeve	None											Archive & hold
2	SS102-0.5		0958				X	X									
3	SS102-1.5		0959														Archive & hold
4	SS102-2.5		1000														Archive & hold
5	SS103-0.5		1002				X	X									
6	SS103-1.5		1003														Archive & hold
7	SS103-2.5		1004														Archive & hold
8	SS104-0.5		1005				X	X									
9	SS104-1.5		1006														Archive & hold
10	SS104-2.5		1007														Archive & hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	06242016 1400
1 Received By:	[signature]	L. Marrolett		6/24/16 1400
2 Relinquished By:	[signature]	L. Marrolett		6/24/16 1542
2 Received By:	[signature]	ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371034 Page: 7 of 10	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS96-0.5	6/24/16	1009	Soil	1x Sleeve	None	X	X									
2	SS96-1.5	6/24/16	1010														Archive & hold
3	SS96-2.5		1011														Archive & hold
4	SS101-0.5		1014				X	X									
5	SS101-1.5		1015														Archive & hold
6	SS101-2.5		1016														Archive & hold
7	SS95-0.5		1018				X	X									
8	SS95-1.5		1020														Archived hold
9	SS95-2.5		1021														Archive & hold
10	SS94-0.5		1024				X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	06242016 1400
1 Received By:	[signature]	L. Marrolett		6/24/16 1400
2 Relinquished By:	[signature]	L. Marrolett		6/24/16 1542
2 Received By:	[signature]	ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 371034

Page: 8 of 10

Turn Around Time (Rush by advanced notice only)

Standard:	X	4 Day:		3 Day:	
2 Day:		1 Day:		Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	S594-1.5	6/24/16	1025	Soil	1x Sleeve	Nox											Archive & hold
2	S594-2.5		1026														Archive & hold
3	S531-0.5		1039		1 Sleeve Soil		X	X		X	X	X	X				
4	S531-1.5		1045		1 Sleeve												Archive & hold
5	S531-2.5		1048														Archive & hold
6	S526-0.5		1052				X	X									
7	S526-1.5		1053														Archive & hold
8	S526-2.5		1054														Archive & hold
9	S525-0.5		1057				X	X									
10	S525-1.5		1100														Archive & hold

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	062416 1400
1 Received By:		L. Marrokett		6/24/16 1400
2 Relinquished By:		L. Marrokett		6/24/16 1542
2 Received By:		ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 377034 Page: 9 of 10	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS25-2.5	6/24/16	1103	Soil	1x Sleeve	None											Archive & hold
2	SS28-0.5	6/24/16	1109		1x Sleeve 5x VOA		X	X		X	X	X	X				
3	SS28-1.5		1110		1 Sleeve												Archive & Hold
4	SS28-2.5		1111														Archive & Hold
5	SS93-0.5		1113				X	X									
6	SS93-1.5		1116														Archive & Hold
7	SS93-2.5		1119														Archive & Hold
8	SS27-0.5		1122		1x Sleeve 5x VOA		X	X		X	X	X	X				
9	SS27-1.5		1124		1 Sleeve												Archive & Hold
10	SS27-2.5		1125														Archive & Hold.

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	06242016 1400
1 Received By:		L. Marroletti		6/24/16 1400
2 Relinquished By:		L. Marroletti		6/24/16 1542
2 Received By:		ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371034 Page: 10 of 10	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

Test Instructions / Comments: Samples 553-0.5, 554-0.5, 5524-0.5, 5532-0.5 Submitted on 06/22

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	EQBL624	06/24/16	—	water	2 poly 3 Amber		X	X	X	X	X	X	X				
2	COMP 1	06/24/16		Soil					X								Composite 551-0.5, 552-0.5, 553-0.5, 554-0.5
3	COMP 6	06/24/16							X								Composite 5524-0.5, 5525-0.5 & 5526-0.5
4	COMP 7	06/24/16							X								Composite 5527-0.5, 5528-0.5, & 5529-0.5
5	COMP 8	06/24/16							X								Composite 5530-0.5, 5531-0.5, 5532-0.5
6	COMP 18	06/24/16							X								Composite 5581-0.5, 5582-0.5, 5583-0.5, 5584-0.5
7	COMP 21	06/24/16							X								Composite 5593-0.5, 5594-0.5, 5595-0.5, 5596-0.5
8	COMP 23	06/24/16							X								Composite 55101-0.5, 55102-0.5, 55103-0.5, 55104-0.5
9	COMP 24	06/24/16							X								Composite ~~55105-55106-55~~ 55105-0.5, 55106-0.5, 5566-0.5
10																	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	Alta	06 24 2016 / 14:00
1 Received By:	[signature]	L. Marrolette		6/24/16 1400
2 Relinquished By:	[signature]	L. Marrolette		6/24/16 1542
2 Received By:	[signature]	ZAID RADIMA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: AVTA ENVIRONMENTAL

Project: JEFFERSON HIGH SCHOOL

Date Received: 6/24/16

Sampler's Signature Present: Yes (No)

Sample temperature: _____

Sample(s) received in cooler: (Yes) No (Skip Section 2)

Shipping Information: _____

Section 2

Was the cooler packed with: ✓ Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other ___

Cooler 1 Temperature: 3.4°C Cooler 2 Temperature: 5.6°C Cooler 3 Temperature: 6.6°C

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤ 10 Deg. C or arrival on ice)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?	✓		
If Yes – were they intact?	✓		
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?		✓	
Were the containers labeled with correct preservatives?	✓		
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay Dept. immediately.*			✓

Section 4

Explanations/Comments

TRIP BLANKS WERE RECEIVED, HOWEVER, NOT LISTED ON THE C.O.C. TO BE ANALYZED.

Section 5

Was the Project Manager notified via email of discrepancies: (Y) / N N/A

Project Manager's response: R.C.

Completed By: _____ Date: 6/24/16

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

15 July 2016

Ranjit Clarke
Enthalpy Analytical, Inc.
806 N. Batavia
Orange, CA 92868

RE: 371034 PO# 371034

Enclosed are the results of analyses for samples received by the laboratory on 07/06/16 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Bryson
Client Services Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
371034-003	T161491-01	Soil	06/24/16 07:22	07/06/16 17:25
371034-009	T161491-02	Soil	06/24/16 07:32	07/06/16 17:25
371034-010	T161491-03	Soil	06/24/16 07:33	07/06/16 17:25
371034-018	T161491-04	Soil	06/24/16 08:10	07/06/16 17:25
371034-024	T161491-05	Soil	06/24/16 08:50	07/06/16 17:25
371034-034	T161491-06	Soil	06/24/16 09:01	07/06/16 17:25
371034-043	T161491-07	Soil	06/24/16 09:34	07/06/16 17:25
371034-073	T161491-08	Soil	06/24/16 10:39	07/06/16 17:25
371034-082	T161491-09	Soil	06/24/16 11:09	07/06/16 17:25
371034-088	T161491-10	Soil	06/24/16 11:22	07/06/16 17:25
371034-092	T161491-11	Soil	06/24/16 00:00	07/06/16 17:25
371034-093	T161491-12	Soil	06/24/16 00:00	07/06/16 17:25
371034-094	T161491-13	Soil	06/24/16 00:00	07/06/16 17:25
371034-095	T161491-14	Soil	06/24/16 00:00	07/06/16 17:25
371034-096	T161491-15	Soil	06/24/16 00:00	07/06/16 17:25
371034-097	T161491-16	Soil	06/24/16 00:00	07/06/16 17:25
371034-098	T161491-17	Soil	06/24/16 00:00	07/06/16 17:25
371034-099	T161491-18	Soil	06/24/16 00:00	07/06/16 17:25

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Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

DETECTIONS SUMMARY

Sample ID: 371034-003 **Laboratory ID:** T161491-01

No Results Detected

Sample ID: 371034-009 **Laboratory ID:** T161491-02

No Results Detected

Sample ID: 371034-010 **Laboratory ID:** T161491-03

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**110**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**1800**	10	mg/kg	EPA 8015C	

Sample ID: 371034-018 **Laboratory ID:** T161491-04

No Results Detected

Sample ID: 371034-024 **Laboratory ID:** T161491-05

No Results Detected

Sample ID: 371034-034 **Laboratory ID:** T161491-06

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Sample ID: 371034-034 **Laboratory ID:** T161491-06

No Results Detected

Sample ID: 371034-043 **Laboratory ID:** T161491-07

No Results Detected

Sample ID: 371034-073 **Laboratory ID:** T161491-08

No Results Detected

Sample ID: 371034-082 **Laboratory ID:** T161491-09

No Results Detected

Sample ID: 371034-088 **Laboratory ID:** T161491-10

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**66**	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	**270**	10	mg/kg	EPA 8015C	

Sample ID: 371034-092 **Laboratory ID:** T161491-11

Analyte	Result	Reporting Limit	Units	Method	Notes
alpha-Chlordane	**0.79**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371034-093 **Laboratory ID:** T161491-12

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: 371034-093 **Laboratory ID:** T161491-12

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**0.73**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**1.2**	5.0	ug/kg	EPA 8081A	J
Dieldrin	**0.79**	5.0	ug/kg	EPA 8081A	J
4,4´-DDD	**1.4**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371034-094 **Laboratory ID:** T161491-13

Analyte	Result	Reporting Limit	Units	Method	Notes
Aldrin	**0.83**	5.0	ug/kg	EPA 8081A	J
gamma-Chlordane	**0.90**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**2.3**	5.0	ug/kg	EPA 8081A	J
4,4´-DDE	**1.5**	5.0	ug/kg	EPA 8081A	J
Dieldrin	**34**	5.0	ug/kg	EPA 8081A	
Endrin	**0.71**	5.0	ug/kg	EPA 8081A	J
4,4´-DDD	**4.9**	5.0	ug/kg	EPA 8081A	J
Endosulfan II	**1.9**	5.0	ug/kg	EPA 8081A	J
4,4´-DDT	**6.5**	5.0	ug/kg	EPA 8081A	

Sample ID: 371034-095 **Laboratory ID:** T161491-14

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**0.55**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**0.74**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371034-096 **Laboratory ID:** T161491-15

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**0.85**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371034-097 **Laboratory ID:** T161491-16

Analyte	Result	Reporting Limit	Units	Method	Notes
Heptachlor epoxide	**1.5**	5.0	ug/kg	EPA 8081A	J

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Sample ID: 371034-097 **Laboratory ID:** T161491-16

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**8.4**	5.0	ug/kg	EPA 8081A	
alpha-Chlordane	**19**	5.0	ug/kg	EPA 8081A	
4,4´-DDT	**7.1**	5.0	ug/kg	EPA 8081A	

Sample ID: 371034-098 **Laboratory ID:** T161491-17

Analyte	Result	Reporting Limit	Units	Method	Notes
gamma-Chlordane	**3.9**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**6.9**	5.0	ug/kg	EPA 8081A	
4,4´-DDE	**55**	5.0	ug/kg	EPA 8081A	
Dieldrin	**2.1**	5.0	ug/kg	EPA 8081A	J
Endrin	**14**	5.0	ug/kg	EPA 8081A	
4,4´-DDD	**2.3**	5.0	ug/kg	EPA 8081A	J
Endosulfan II	**2.7**	5.0	ug/kg	EPA 8081A	J
4,4´-DDT	**39**	5.0	ug/kg	EPA 8081A	
Endosulfan sulfate	**2.4**	5.0	ug/kg	EPA 8081A	J

Sample ID: 371034-099 **Laboratory ID:** T161491-18

Analyte	Result	Reporting Limit	Units	Method	Notes
Heptachlor	**0.63**	5.0	ug/kg	EPA 8081A	J
gamma-Chlordane	**2.0**	5.0	ug/kg	EPA 8081A	J
alpha-Chlordane	**2.4**	5.0	ug/kg	EPA 8081A	J
4,4´-DDD	**0.68**	5.0	ug/kg	EPA 8081A	J
4,4´-DDT	**4.0**	5.0	ug/kg	EPA 8081A	J

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371034-003

T161491-01(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*111 %*	*65-135*		"	"	"	"	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*61.2 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*69.0 %*	*35-140*		"	"	"	"	

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371034-009

T161491-02(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*123 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*79.7 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*90.0 %*	*35-140*		*"*	*"*	*"*	*"*	

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371034-010

T161491-03(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**110**	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	**1800**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*111 %*	*65-135*		*"*	*"*	*"*	*"*	

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371034-018

T161491-04(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*115 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*70.4 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*77.5 %*	*35-140*		*"*	*"*	*"*	*"*	

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371034-024

T161491-05(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*99.9 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*95.6 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*111 %*	*35-140*		*"*	*"*	*"*	*"*	

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371034-034

T161491-06(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*111 %*	*65-135*		"	"	"	"	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*74.5 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*91.1 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-043

T161491-07(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*118 %*	*65-135*		"	"	"	"	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*82.9 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*97.1 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: [none]	**Reported:**
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371034-073

T161491-08(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*122 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*80.2 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*91.7 %*	*35-140*		*"*	*"*	*"*	*"*	

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Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-082

T161491-09(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	ND	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	ND	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*105 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*71.3 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*79.4 %*	*35-140*		*"*	*"*	*"*	*"*	

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806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-088

T161491-10(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
				SunStar Laboratories, Inc.						
Extractable Petroleum Hydrocarbons by 8015C										
C13-C28 (DRO)	**66**	6.2	10	mg/kg	1	6070725	07/07/16	07/08/16	EPA 8015C	
C29-C40 (MORO)	**270**	6.2	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*112 %*	*65-135*		*"*	*"*	*"*	*"*	
Polychlorinated Biphenyls by EPA Method 8082										
PCB-1016	ND	3.7	10	ug/kg	1	6070730	07/07/16	07/13/16	EPA 8082	
PCB-1221	ND	3.7	10	"	"	"	"	"	"	
PCB-1232	ND	3.7	10	"	"	"	"	"	"	
PCB-1242	ND	3.7	10	"	"	"	"	"	"	
PCB-1248	ND	3.7	10	"	"	"	"	"	"	
PCB-1254	ND	3.7	10	"	"	"	"	"	"	
PCB-1260	ND	3.7	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*72.4 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*83.3 %*	*35-140*		*"*	*"*	*"*	*"*	

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Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-092

T161491-11(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070724	07/07/16	07/15/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	0.42	5.0	"	"	"	"	"	"	
alpha-Chlordane	**0.79**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*104 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*103 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-093

T161491-12(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070724	07/07/16	07/15/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**0.73**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**1.2**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	**0.79**	0.47	5.0	"	"	"	"	"	"	J
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	**1.4**	0.35	5.0	"	"	"	"	"	"	J
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*103 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*93.1 %*	*35-140*		"	"	"	"	

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Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-094

T161491-13(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070724	07/07/16	07/15/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	**0.83**	0.47	5.0	"	"	"	"	"	"	J
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**0.90**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**2.3**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	**1.5**	1.5	5.0	"	"	"	"	"	"	J
Dieldrin	**34**	0.47	5.0	"	"	"	"	"	"	
Endrin	**0.71**	0.43	5.0	"	"	"	"	"	"	J
4,4´-DDD	**4.9**	0.35	5.0	"	"	"	"	"	"	J
Endosulfan II	**1.9**	0.56	5.0	"	"	"	"	"	"	J
4,4´-DDT	**6.5**	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*117 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*106 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-095

T161491-14(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070724	07/07/16	07/15/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**0.55**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**0.74**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*108 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*95.6 %*	*35-140*		"	"	"	"	

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806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-096

T161491-15(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070724	07/07/16	07/15/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**0.85**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	ND	0.53	5.0	"	"	"	"	"	"	
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	ND	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*119 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*94.6 %*	*35-140*		*"*	*"*	*"*	*"*	

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Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-097

T161491-16(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070724	07/07/16	07/15/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	**1.5**	0.46	5.0	"	"	"	"	"	"	J
gamma-Chlordane	**8.4**	0.42	5.0	"	"	"	"	"	"	
alpha-Chlordane	**19**	0.53	5.0	"	"	"	"	"	"	
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	ND	0.35	5.0	"	"	"	"	"	"	
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	**7.1**	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*118 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl			*179 %*		*35-140*	"	"	"	"	*S-GC*

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Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-098

T161491-17(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070724	07/07/16	07/15/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	ND	0.51	5.0	"	"	"	"	"	"	
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**3.9**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**6.9**	0.53	5.0	"	"	"	"	"	"	
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	**55**	1.5	5.0	"	"	"	"	"	"	
Dieldrin	**2.1**	0.47	5.0	"	"	"	"	"	"	J
Endrin	**14**	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	**2.3**	0.35	5.0	"	"	"	"	"	"	J
Endosulfan II	**2.7**	0.56	5.0	"	"	"	"	"	"	J
4,4´-DDT	**39**	2.5	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	**2.4**	0.47	5.0	"	"	"	"	"	"	J
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*116 %*	*35-140*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl			*95.0 %*	*35-140*		*"*	*"*	*"*	*"*	

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949.297.5027 Fax

Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

371034-099

T161491-18(Soil)

SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
alpha-BHC	ND	0.33	5.0	ug/kg	1	6070724	07/07/16	07/15/16	EPA 8081A	
gamma-BHC (Lindane)	ND	0.42	5.0	"	"	"	"	"	"	
beta-BHC	ND	0.71	5.0	"	"	"	"	"	"	
delta-BHC	ND	0.67	5.0	"	"	"	"	"	"	
Heptachlor	**0.63**	0.51	5.0	"	"	"	"	"	"	J
Aldrin	ND	0.47	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.46	5.0	"	"	"	"	"	"	
gamma-Chlordane	**2.0**	0.42	5.0	"	"	"	"	"	"	J
alpha-Chlordane	**2.4**	0.53	5.0	"	"	"	"	"	"	J
Endosulfan I	ND	0.50	5.0	"	"	"	"	"	"	
4,4´-DDE	ND	1.5	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.47	5.0	"	"	"	"	"	"	
Endrin	ND	0.43	5.0	"	"	"	"	"	"	
4,4´-DDD	**0.68**	0.35	5.0	"	"	"	"	"	"	J
Endosulfan II	ND	0.56	5.0	"	"	"	"	"	"	
4,4´-DDT	**4.0**	2.5	5.0	"	"	"	"	"	"	J
Endrin aldehyde	ND	0.70	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.47	5.0	"	"	"	"	"	"	
Methoxychlor	ND	0.45	10	"	"	"	"	"	"	
Endrin ketone	ND	0.45	5.0	"	"	"	"	"	"	
Toxaphene	ND	58	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene			*95.9 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl			*26.7 %*	*35-140*		"	"	"	"	*S-GC*

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nicole Bryson

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070725 - EPA 3550B GC											
Blank (6070725-BLK1)					Prepared: 07/07/16 Analyzed: 07/08/16						
Surrogate: p-Terphenyl	*127*			*mg/kg*	*99.9*		*127*	*65-135*			
C13-C28 (DRO)	ND	6.2	10	"							
C29-C40 (MORO)	ND	6.2	10	"							
LCS (6070725-BS1)					Prepared: 07/07/16 Analyzed: 07/08/16						
Surrogate: p-Terphenyl	*98.6*			*mg/kg*	*99.2*		*99.4*	*65-135*			
C13-C28 (DRO)	580	6.2	10	"	496		117	75-125			
LCS Dup (6070725-BSD1)					Prepared: 07/07/16 Analyzed: 07/08/16						
Surrogate: p-Terphenyl	*85.8*			*mg/kg*	*99.4*		*86.3*	*65-135*			
C13-C28 (DRO)	560	6.2	10	"	497		112	75-125	3.80	20	

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Providing Quality Analytical Services Nationwide

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949.297.5027 Fax

Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070724 - EPA 3550 ECD/GCMS											
Blank (6070724-BLK1)					Prepared: 07/07/16 Analyzed: 07/15/16						
Surrogate: Tetrachloro-meta-xylene	*9.84*			*ug/kg*	*9.94*		*99.0*	*35-140*			
Surrogate: Decachlorobiphenyl	*12.1*			*"*	*9.94*		*122*	*35-140*			
alpha-BHC	ND	0.33	5.0	"							
gamma-BHC (Lindane)	ND	0.42	5.0	"							
beta-BHC	ND	0.71	5.0	"							
delta-BHC	ND	0.67	5.0	"							
Heptachlor	ND	0.51	5.0	"							
Aldrin	ND	0.47	5.0	"							
Heptachlor epoxide	ND	0.46	5.0	"							
gamma-Chlordane	ND	0.42	5.0	"							
alpha-Chlordane	ND	0.53	5.0	"							
Endosulfan I	ND	0.50	5.0	"							
4,4´-DDE	ND	1.5	5.0	"							
Dieldrin	ND	0.47	5.0	"							
Endrin	ND	0.43	5.0	"							
4,4´-DDD	ND	0.35	5.0	"							
Endosulfan II	ND	0.56	5.0	"							
4,4´-DDT	ND	2.5	5.0	"							
Endrin aldehyde	ND	0.70	5.0	"							
Endosulfan sulfate	ND	0.47	5.0	"							
Methoxychlor	ND	0.45	10	"							
Endrin ketone	ND	0.45	5.0	"							
Toxaphene	ND	58	200	"							
LCS (6070724-BS1)					Prepared: 07/07/16 Analyzed: 07/15/16						
Surrogate: Tetrachloro-meta-xylene	*12.0*			*ug/kg*	*9.97*		*121*	*35-140*			
Surrogate: Decachlorobiphenyl	*13.0*			*"*	*9.97*		*131*	*35-140*			
gamma-BHC (Lindane)	42.5	0.42	5.0	"	39.9		107	40-120			

SunStar Laboratories, Inc.

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Providing Quality Analytical Services Nationwide

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Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070724 - EPA 3550 ECD/GCMS											
LCS (6070724-BS1)					Prepared: 07/07/16 Analyzed: 07/15/16						
Heptachlor	42.2	0.51	5.0	ug/kg	39.9		106	40-120			
Aldrin	39.0	0.47	5.0	"	39.9		97.7	40-120			
Dieldrin	35.7	0.47	5.0	"	39.9		89.6	40-120			
Endrin	42.3	0.43	5.0	"	39.9		106	40-120			
4,4´-DDT	42.7	2.5	5.0	"	39.9		107	33-147			
LCS Dup (6070724-BSD1)					Prepared: 07/07/16 Analyzed: 07/15/16						
Surrogate: Tetrachloro-meta-xylene	*9.72*			*ug/kg*	*9.91*		*98.0*	*35-140*			
Surrogate: Decachlorobiphenyl	*12.1*			*"*	*9.91*		*122*	*35-140*			
gamma-BHC (Lindane)	38.4	0.42	5.0	"	39.6		97.0	40-120	9.45	30	
Heptachlor	32.2	0.51	5.0	"	39.6		81.3	40-120	26.3	30	
Aldrin	33.6	0.47	5.0	"	39.6		84.8	40-120	14.2	30	
Dieldrin	31.0	0.47	5.0	"	39.6		78.3	40-120	13.5	30	
Endrin	39.5	0.43	5.0	"	39.6		99.6	40-120	6.35	30	
4,4´-DDT	43.4	2.5	5.0	"	39.6		109	33-147	2.25	30	

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Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070730 - EPA 3550 ECD/GCMS											
Blank (6070730-BLK1)					Prepared: 07/07/16 Analyzed: 07/13/16						
Surrogate: Tetrachloro-meta-xylene	*6.38*			*ug/kg*	*9.93*		*64.2*	*35-140*			
Surrogate: Decachlorobiphenyl	*6.93*			*"*	*9.93*		*69.8*	*35-140*			
PCB-1016	ND	3.7	10	"							
PCB-1221	ND	3.7	10	"							
PCB-1232	ND	3.7	10	"							
PCB-1242	ND	3.7	10	"							
PCB-1248	ND	3.7	10	"							
PCB-1254	ND	3.7	10	"							
PCB-1260	ND	3.7	10	"							
LCS (6070730-BS1)					Prepared: 07/07/16 Analyzed: 07/13/16						
Surrogate: Tetrachloro-meta-xylene	*6.59*			*ug/kg*	*9.85*		*66.9*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.12*			*"*	*9.85*		*72.3*	*35-140*			
PCB-1016	61.6	3.7	10	"	98.5		62.5	40-130			
PCB-1260	57.0	3.7	10	"	98.5		57.9	40-130			
LCS Dup (6070730-BSD1)					Prepared: 07/07/16 Analyzed: 07/13/16						
Surrogate: Tetrachloro-meta-xylene	*6.57*			*ug/kg*	*9.91*		*66.3*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.12*			*"*	*9.91*		*71.8*	*35-140*			
PCB-1016	78.0	3.7	10	"	99.1		78.7	40-130	23.5	30	
PCB-1260	75.4	3.7	10	"	99.1		76.1	40-130	27.7	30	

SunStar Laboratories, Inc.

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SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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949.297.5027 Fax

Enthalpy Analytical, Inc.	Project: 371034 PO# 371034	
806 N. Batavia	Project Number: [none]	**Reported:**
Orange CA, 92868	Project Manager: Ranjit Clarke	07/15/16 16:42

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
J	Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

Page: 1 of 2

Date: 7/6/2016

Lab Number: T161491

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630		
GSO:	X	FedEx:	
Priority:		Ground:	X

Project Information: 371034

Contact: Ranjit Clarke

Email report to: ranjit.clarke@enthalpy.com
incomingreports@associatedlabs.com

PO # : 371034

Sampled By:

Email Invoice to: ranjit.clarke@enthalpy.com

Holdinh time expires 07/08/16!!!
"J" FLAGS REQUIRED

5.6°

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 8015B - Diesel / Motor Oil	EPA 8082 - PCBs
1	371034-003	6/24/2016	7:22	S	1	NA	X	X
2	371034-009	6/24/2016	7:32	S	1	NA	X	X
3	371034-010	6/24/2016	7:33	S	1	NA	X	
4	371034-018	6/24/2016	8:10	S	1	NA	X	X
5	371034-024	6/24/2016	8:50	S	1	NA	X	X
6	371034-034	6/24/2016	9:01	S	1	NA	X	X
7	371034-043	6/24/2016	9:34	S	1	NA	X	X
8	371034-073	6/24/2016	10:39	S	1	NA	X	X
9	371034-082	6/24/2016	11:09	S	1	NA	X	X
10	371034-088	6/24/2016	11:22	S	1	NA	X	X

Matrix: **A** = Air, **DW** = Drinking Water, **FL** = Food Liquid, **FS** = Food Solid, **L** = Liquid, **PP** = Pure Product, **WW** = Waste Water, **S** = Solid, **W** = Water, **WP** = Wipe, **O** = Other, **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$, **2** = HCl, **3** = HNO_3, **4** = H_2SO_4, **5** = NaOH, **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Dorning	Printed Name: SUNNY	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/6/16 Time: 1725	Date: 7-6-16 Time: 17:25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ENTHALPY ANALYTICAL

806 N. Batavia St, Orange, CA 92868. P-714.771.6900 F-714.771.9933

CHAIN OF CUSTODY RECORD

Page: 2 of 2

Date: 7/6/2016

Lab Number: T161491

Turn Around Time	
Standard :	X
72 Hours:	
48 Hours:	
24 Hours:	
Need by:	

Send To:	SunStar Laboratories 25712 Commercentre Dr., Lake Forest, CA 92630		
GSO:	X	FedEx:	
Priority:		Ground:	X

Project Information: 371034

PO # : 371034

Sampled By:

Contact: Ranjit Clarke

Email report to: ranjit.clarke@enthalpy.com
incomingreports@associatedlabs.com

Email Invoice to: ranjit.clarke@enthalpy.com

Holding time expires 07/08/16!!!
"J" FLAGS REQUIRED
See comments section for samples to composite (samples ~~21-22~~).
5.6' 11-18

	Sample ID	Sample Date	Sample Time	Matrix	Containers	Preservatives	EPA 8081A - OCPs											
1	371034-092	6/24/2016	-	S	1	NA	X								19	20	SS1-0.5,SS2-0.5
2	371034-093	6/24/2016	-	S	1	NA	X								21	22	SS25-0.5,SS26-0.5
3	371034-094	6/24/2016	-	S	1	NA	X							23	24	25	SS27-0.5,SS28-0.5,SS29-0.5
4	371034-095	6/24/2016	-	S	1	NA	X								26	27	SS30-0.5,SS31-0.5
5	371034-096	6/24/2016	-	S	1	NA	X						28	29	30	31	SS81-0.5,SS82-0.5,SS83-0.5,SS84-0.5
6	371034-097	6/24/2016	-	S	1	NA	X						32	33	34	35	SS93-0.5,SS94-0.5,SS95-0.5,SS96-0.5
7	371034-098	6/24/2016	-	S	1	NA	X						36	37	38	39	SS101-0.5,SS102-0.5,SS103-0.5,SS104-0.5
8	371034-099	6/24/2016	-	S	1	NA	X							40	41	42	SS105-0.5,SS106-0.5,SS66-0.5
9																	
10																	

Matrix: **A** = Air, **DW** = Drinking Water, **FL** = Food Liquid, **FS** = Food Solid, **L** = Liquid, **PP** = Pure Product, **WW** = Waste Water, **S** = Solid, **W** = Water, **WP** = Wipe, **O** = Other, **SeaW** = Sea Water

Preservative: **1** = $Na_2S_2O_3$, **2** = HCl, **3** = HNO_3, **4** = H_2SO_4, **5** = NaOH, **6** = None

Relinquished By: 1	Received By: 1	Relinquished By: 2	Received By: 2	Relinquished By: 3	Received By: 3
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Dennis Dorsey	Printed Name: Sunny	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 7/6/16 Time: 1725	Date: 7-6-16 Time: 17:25	Date: Time:	Date: Time:	Date: Time:	Date: Time:

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T161491

Client Name: Enthalpy

Project: 371034 PO# 371034

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____

Date/Time Courier Received: _____

Lab Received by: Sunny

Date/Time Lab Received: 7-6-16 1725

Total number of coolers received: 0

Temperature:	Cooler #1	5.8 °C +/- the CF (- 0.2°C) =	5.6	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		☒ **Yes** ☐ **No**
If NO:				
Samples received on ice?		☐ Yes		☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?		☐ Yes → Acceptable		☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: DM 7-6-16

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 7/7/2016 7:51:55AM

WORK ORDER

T161491

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371034 PO# 371034**	**Project Number:**	**[none]**

Report To:

Enthalpy Analytical, Inc.
Ranjit Clarke
806 N. Batavia
Orange, CA 92868

Date Due:	07/14/16 17:00 (5 day TAT)		
Received By:	Sunny Lounethone	Date Received:	07/06/16 17:25
Logged In By:	Dan Marteski	Date Logged In:	07/06/16 17:45

Samples Received at:	**5.6°C**		
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	No		

Analysis	Due	TAT	Expires	Comments
T161491-01 371034-003 [Soil] Sampled 06/24/16 07:22 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 07:22	
8082 PCB	07/14/16 15:00	5	07/08/16 07:22	
T161491-02 371034-009 [Soil] Sampled 06/24/16 07:32 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 07:32	
8082 PCB	07/14/16 15:00	5	07/08/16 07:32	
T161491-03 371034-010 [Soil] Sampled 06/24/16 07:33 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 07:33	
T161491-04 371034-018 [Soil] Sampled 06/24/16 08:10 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 08:10	
8082 PCB	07/14/16 15:00	5	07/08/16 08:10	
T161491-05 371034-024 [Soil] Sampled 06/24/16 08:50 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 08:50	
8082 PCB	07/14/16 15:00	5	07/08/16 08:50	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161491

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371034 PO# 371034**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments
T161491-06 371034-034 [Soil] Sampled 06/24/16 09:01 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 09:01	
8082 PCB	07/14/16 15:00	5	07/08/16 09:01	
T161491-07 371034-043 [Soil] Sampled 06/24/16 09:34 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 09:34	
8082 PCB	07/14/16 15:00	5	07/08/16 09:34	
T161491-08 371034-073 [Soil] Sampled 06/24/16 10:39 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 10:39	
8082 PCB	07/14/16 15:00	5	07/08/16 10:39	
T161491-09 371034-082 [Soil] Sampled 06/24/16 11:09 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 11:09	
8082 PCB	07/14/16 15:00	5	07/08/16 11:09	
T161491-10 371034-088 [Soil] Sampled 06/24/16 11:22 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	07/14/16 15:00	5	07/08/16 11:22	
8082 PCB	07/14/16 15:00	5	07/08/16 11:22	
T161491-11 371034-092 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				**COMPOSITE 2:1 (SAMPLES 19, 20)**
8081 Pesticides	07/14/16 15:00	5	07/08/16 00:00	
T161491-12 371034-093 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				**COMPOSITE 2:1 (SAMPLES 21, 22)**
8081 Pesticides	07/14/16 15:00	5	07/08/16 00:00	
T161491-13 371034-094 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				**COMPOSITE 3:1 (SAMPLES 23, 24, 25)**
8081 Pesticides	07/14/16 15:00	5	07/08/16 00:00	
T161491-14 371034-095 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				**COMPOSITE 2:1 (SAMPLES 26, 27)**
8081 Pesticides	07/14/16 15:00	5	07/08/16 00:00	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161491

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371034 PO# 371034**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments
T161491-15 371034-096 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				**COMPOSITE 4:1 (SAMPLES 28, 29, 30, 31)**
8081 Pesticides	07/14/16 15:00	5	07/08/16 00:00	
T161491-16 371034-097 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				**COMPOSITE 4:1 (SAMPLES 32, 33, 34, 35)**
8081 Pesticides	07/14/16 15:00	5	07/08/16 00:00	
T161491-17 371034-098 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				**COMPOSITE 4:1 (SAMPLES 36, 37, 38, 39)**
8081 Pesticides	07/14/16 15:00	5	07/08/16 00:00	
T161491-18 371034-099 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				**COMPOSITE 3:1 (SAMPLES 40, 41, 42)**
8081 Pesticides	07/14/16 15:00	5	07/08/16 00:00	
T161491-19 SS1-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161491-20 SS2-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161491-21 SS25-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161491-22 SS26-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161491-23 SS27-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161491-24 SS28-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T161491-25 SS29-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161491

Client:	Enthalpy Analytical, Inc.	Project Manager:	Nicole Bryson
Project:	371034 PO# 371034	Project Number:	[none]

Analysis	Due	TAT	Expires	Comments

T161491-26 SS30-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-27 SS31-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-28 SS81-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-29 SS82-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-30 SS83-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-31 SS84-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-32 SS93-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-33 SS94-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-34 SS95-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-35 SS96-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-36 SS101-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T161491

Client:	**Enthalpy Analytical, Inc.**	**Project Manager:**	**Nicole Bryson**
Project:	**371034 PO# 371034**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments

T161491-37 SS102-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-38 SS103-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-39 SS104-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-40 SS105-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-41 SS106-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T161491-42 SS66-0.5 [Soil] Sampled 06/24/16 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

Reviewed By

Date

Enthalpy Analytical, Inc.
Formerly Associated Labs
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Tel: (714)771-6900 Fax: (714)538-1209
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info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Alta Environmental
Address: 3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807
Attn: Eric Fraske

Lab Request: 381038
Report Date: 08/04/2016
Date Received: 08/02/2016
Client ID: 11397

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
381038-001	SS1-0.5	381038-025	SS27-0.5	381038-049	SS40-2.5
381038-002	SS1-1.5	381038-026	SS27-1.5	381038-050	SS41-0.5
381038-003	SS1-2.5	381038-027	SS27-2.5	381038-051	SS41-1.5
381038-004	SS2-0.5	381038-028	SS32-0.5	381038-052	SS41-2.5
381038-005	SS2-1.5	381038-029	SS32-1.5	381038-053	SS42-0.5
381038-006	SS2-2.5	381038-030	SS32-2.5	381038-054	SS42-1.5
381038-007	SS3-0.5	381038-031	SS35-0.5	381038-055	SS42-2.5
381038-008	SS3-1.5	381038-032	SS35-1.5	381038-056	SS43-0.5
381038-009	SS3-2.5	381038-033	SS35-2.5	381038-057	SS43-0.5 DUP
381038-010	SS4-0.5	381038-034	SS36-0.5	381038-058	SS43-1.5
381038-011	SS4-1.5	381038-035	SS36-1.5	381038-059	SS43-2.5
381038-012	SS4-2.5	381038-036	SS36-2.5	381038-060	SS44-0.5
381038-013	SS9-0.5	381038-037	SS37-0.5	381038-061	SS44-1.5
381038-014	SS9-1.5	381038-038	SS37-0.5 DUP	381038-062	SS44-2.5
381038-015	SS9-2.5	381038-039	SS37-1.5	381038-063	SS45-0.5
381038-016	SS21-0.5	381038-040	SS37-2.5	381038-064	SS45-0.5 DUP
381038-017	SS21-1.5	381038-041	SS38-0.5	381038-065	SS45-1.5
381038-018	SS21-2.5	381038-042	SS38-1.5	381038-066	SS45-2.5
381038-019	SS22-0.5	381038-043	SS38-2.5	381038-067	SS46-0.5
381038-020	SS22-1.5	381038-044	SS39-0.5	381038-068	SS46-0.5 DUP
381038-021	SS22-2.5	381038-045	SS39-1.5	381038-069	SS46-1.5
381038-022	SS24-0.5	381038-046	SS39-2.5	381038-070	SS46-2.5
381038-023	SS24-1.5	381038-047	SS40-0.5	381038-071	SS47-0.5
381038-024	SS24-2.5	381038-048	SS40-1.5	381038-072	SS47-1.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:48 **Site:**
Sample #: 381038-001 **Client Sample #:** SS1-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:49 **Site:**
Sample #: 381038-002 **Client Sample #:** SS1-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**2.74**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:50 **Site:**
Sample #: 381038-003 **Client Sample #:** SS1-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**1.19**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:54 **Site:**
Sample #: 381038-004 **Client Sample #:** SS2-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:55 **Site:**
Sample #: 381038-005 **Client Sample #:** SS2-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**38.6**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:56 **Site:**
Sample #: 381038-006 **Client Sample #:** SS2-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**11.0**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:35 **Site:**
Sample #: 381038-007 **Client Sample #:** SS3-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:36 **Site:**
Sample #: 381038-008 **Client Sample #:** SS3-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 07:37	Site:			
Sample #:	**381038-009**	Client Sample #:	SS3-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 07:31	Site:			
Sample #:	**381038-010**	Client Sample #:	SS4-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 07:33	Site:			
Sample #:	**381038-011**	Client Sample #:	SS4-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 07:35	Site:			
Sample #:	**381038-012**	Client Sample #:	SS4-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:41	Site:			
Sample #:	**381038-013**	Client Sample #:	SS9-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**51.4**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**1.773 J**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:44	Site:			
Sample #:	**381038-014**	Client Sample #:	SS9-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 13:45	Site:	
Sample #: **381038-015**	Client Sample #: SS9-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 07:19	Site:	
Sample #: **381038-016**	Client Sample #: SS21-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 07:20	Site:	
Sample #: **381038-017**	Client Sample #: SS21-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**16.6**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 07:22	Site:	
Sample #: **381038-018**	Client Sample #: SS21-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**20.8**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 07:19	Site:	
Sample #: **381038-019**	Client Sample #: SS22-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 07:21	Site:	
Sample #: **381038-020**	Client Sample #: SS22-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**35.8**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 07:23	Site:	
Sample #: **381038-021**	Client Sample #: SS22-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**23.9**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 07:44	Site:	
Sample #: **381038-022**	Client Sample #: SS24-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 07:45	**Site:**			
Sample #:	**381038-023**	**Client Sample #:**	SS24-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 07:47	**Site:**			
Sample #:	**381038-024**	**Client Sample #:**	SS24-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 08:30	**Site:**			
Sample #:	**381038-025**	**Client Sample #:**	SS27-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 08:31	**Site:**			
Sample #:	**381038-026**	**Client Sample #:**	SS27-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**39.0**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**11.6**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 08:33	**Site:**			
Sample #:	**381038-027**	**Client Sample #:**	SS27-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**36.5**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**10.3**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 07:42	**Site:**			
Sample #:	**381038-028**	**Client Sample #:**	SS32-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:43 **Site:**
Sample #: **381038-029** **Client Sample #:** SS32-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**45.2**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 07:44 **Site:**
Sample #: **381038-030** **Client Sample #:** SS32-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**1.91**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:20 **Site:**
Sample #: **381038-031** **Client Sample #:** SS35-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:21 **Site:**
Sample #: **381038-032** **Client Sample #:** SS35-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:22 **Site:**
Sample #: **381038-033** **Client Sample #:** SS35-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:30 **Site:**
Sample #: **381038-034** **Client Sample #:** SS36-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:31 **Site:**
Sample #: **381038-035** **Client Sample #:** SS36-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:32 **Site:**
Sample #: **381038-036** **Client Sample #:** SS36-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:33 **Site:**
Sample #: **381038-037** **Client Sample #:** SS37-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:34 **Site:**
Sample #: **381038-038** **Client Sample #:** SS37-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:35 **Site:**
Sample #: **381038-039** **Client Sample #:** SS37-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:36 **Site:**
Sample #: **381038-040** **Client Sample #:** SS37-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:12 **Site:**
Sample #: **381038-041** **Client Sample #:** SS38-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:13 **Site:**
Sample #: **381038-042** **Client Sample #:** SS38-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**34.2**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:14 **Site:**
Sample #: **381038-043** **Client Sample #:** SS38-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**1.45**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:01 **Site:**
Sample #: **381038-044** **Client Sample #:** SS39-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:02 **Site:**
Sample #: **381038-045** **Client Sample #:** SS39-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:03 **Site:**
Sample #: **381038-046** **Client Sample #:** SS39-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:34 **Site:**
Sample #: **381038-047** **Client Sample #:** SS40-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:35 **Site:**
Sample #: **381038-048** **Client Sample #:** SS40-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 10:36 **Site:**
Sample #: **381038-049** **Client Sample #:** SS40-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:50	**Site:**			
Sample #:	**381038-050**	**Client Sample #:**	SS41-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:51	**Site:**			
Sample #:	**381038-051**	**Client Sample #:**	SS41-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:52	**Site:**			
Sample #:	**381038-052**	**Client Sample #:**	SS41-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:41	**Site:**			
Sample #:	**381038-053**	**Client Sample #:**	SS42-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:42	**Site:**			
Sample #:	**381038-054**	**Client Sample #:**	SS42-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:43	**Site:**			
Sample #:	**381038-055**	**Client Sample #:**	SS42-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:42	**Site:**			
Sample #:	**381038-056**	**Client Sample #:**	SS43-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 10:43	Site:			
Sample #:	381038-057	Client Sample #:	SS43-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B NELAC	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 NELAC	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 10:45	Site:			
Sample #:	381038-058	Client Sample #:	SS43-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**63.3**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 10:46	Site:			
Sample #:	381038-059	Client Sample #:	SS43-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**46.5**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 09:57	Site:			
Sample #:	381038-060	Client Sample #:	SS44-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B NELAC	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 NELAC	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 09:59	Site:			
Sample #:	381038-061	Client Sample #:	SS44-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 10:00	Site:			
Sample #:	381038-062	Client Sample #:	SS44-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 10:13	Site:			
Sample #:	381038-063	Client Sample #:	SS45-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B NELAC	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 NELAC	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:14	**Site:**			
Sample #:	**381038-064**	**Client Sample #:**	SS45-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:15	**Site:**			
Sample #:	**381038-065**	**Client Sample #:**	SS45-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:17	**Site:**			
Sample #:	**381038-066**	**Client Sample #:**	SS45-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:28	**Site:**			
Sample #:	**381038-067**	**Client Sample #:**	SS46-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:29	**Site:**			
Sample #:	**381038-068**	**Client Sample #:**	SS46-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:31	**Site:**			
Sample #:	**381038-069**	**Client Sample #:**	SS46-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 10:32	**Site:**			
Sample #:	**381038-070**	**Client Sample #:**	SS46-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 11:12 **Site:**
Sample #: 381038-071 **Client Sample #:** SS47-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 11:13 **Site:**
Sample #: 381038-072 **Client Sample #:** SS47-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**45.6**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 11:14 **Site:**
Sample #: 381038-073 **Client Sample #:** SS47-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**57.0**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 11:14 **Site:**
Sample #: 381038-074 **Client Sample #:** SS48-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 11:15 **Site:**
Sample #: 381038-075 **Client Sample #:** SS48-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 11:19 **Site:**
Sample #: 381038-076 **Client Sample #:** SS48-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 11:20 **Site:**
Sample #: 381038-077 **Client Sample #:** SS49-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 11:21	Site:			
Sample #:	**381038-078**	Client Sample #:	SS49-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 11:24	Site:			
Sample #:	**381038-079**	Client Sample #:	SS49-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 11:05	Site:			
Sample #:	**381038-080**	Client Sample #:	SS50-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 11:06	Site:			
Sample #:	**381038-081**	Client Sample #:	SS50-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 11:07	Site:			
Sample #:	**381038-082**	Client Sample #:	SS50-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:16	Site:			
Sample #:	**381038-083**	Client Sample #:	SS53-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169580		
Lead	**109**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**2.23 J**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:17	Site:			
Sample #:	**381038-084**	Client Sample #:	SS53-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:18	Site:			
Sample #:	381038-085	Client Sample #:	SS53-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:26	Site:			
Sample #:	381038-086	Client Sample #:	SS54-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:27	Site:			
Sample #:	381038-087	Client Sample #:	SS54-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**3.18**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:28	Site:			
Sample #:	381038-088	Client Sample #:	SS54-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**1.50**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 12:06	Site:			
Sample #:	381038-089	Client Sample #:	SS55-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 12:07	Site:			
Sample #:	381038-090	Client Sample #:	SS55-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**2.06 J**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 12:08	Site:			
Sample #:	381038-091	Client Sample #:	SS55-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**1.751 J**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 11:51	Site:			
Sample #:	381038-092	Client Sample #:	SS68-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 11:52	Site:			
Sample #:	381038-093	Client Sample #:	SS68-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**5.43**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 11:53	Site:			
Sample #:	381038-094	Client Sample #:	SS68-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**1.54**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:02	Site:			
Sample #:	381038-095	Client Sample #:	SS70-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:03	Site:			
Sample #:	381038-096	Client Sample #:	SS70-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**1.81**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:04	Site:			
Sample #:	381038-097	Client Sample #:	SS70-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**3.09**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:38	Site:			
Sample #:	381038-098	Client Sample #:	SS72-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:39	Site:			
Sample #:	381038-099	Client Sample #:	SS72-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:40	Site:			
Sample #:	381038-100	Client Sample #:	SS72-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:54	Site:			
Sample #:	381038-101	Client Sample #:	SS73-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:55	Site:			
Sample #:	381038-102	Client Sample #:	SS73-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	35.0	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:56	Site:			
Sample #:	381038-103	Client Sample #:	SS73-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	28.9	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:28	Site:			
Sample #:	381038-104	Client Sample #:	SS74-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:29	Site:			
Sample #:	381038-105	Client Sample #:	SS74-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	1.83	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:30	Site:			
Sample #:	381038-106	Client Sample #:	SS74-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	1.77	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:16	Site:			
Sample #:	381038-107	Client Sample #:	SS76-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:17	Site:			
Sample #:	381038-108	Client Sample #:	SS76-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	13.4	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 14:18 **Site:**
Sample #: 381038-109 **Client Sample #:** SS76-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**1.77**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 14:19 **Site:**
Sample #: 381038-110 **Client Sample #:** SS77-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 14:20 **Site:**
Sample #: 381038-111 **Client Sample #:** SS77-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**1.80**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 14:21 **Site:**
Sample #: 381038-112 **Client Sample #:** SS77-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**18.1**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 13:14 **Site:**
Sample #: 381038-113 **Client Sample #:** SS79-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 13:15 **Site:**
Sample #: 381038-114 **Client Sample #:** SS79-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**63.8**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 13:16 **Site:**
Sample #: 381038-115 **Client Sample #:** SS79-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**2.27**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 13:54 **Site:**
Sample #: 381038-116 **Client Sample #:** SS80-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:00	Site:			
Sample #:	381038-117	Client Sample #:	SS80-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**18.7**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:01	Site:			
Sample #:	381038-118	Client Sample #:	SS80-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**1.97**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:12	Site:			
Sample #:	381038-119	Client Sample #:	SS82-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:13	Site:			
Sample #:	381038-120	Client Sample #:	SS82-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**1.59**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 14:14	Site:			
Sample #:	381038-121	Client Sample #:	SS82-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169581		
Lead	**0.88**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:25	Site:			
Sample #:	381038-122	Client Sample #:	SS87-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:26	Site:			
Sample #:	381038-123	Client Sample #:	SS87-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**4.28**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:27	Site:			
Sample #:	381038-124	Client Sample #:	SS87-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**0.55**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:20	Site:			
Sample #:	381038-125	Client Sample #:	SS88-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:21	Site:			
Sample #:	381038-126	Client Sample #:	SS88-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**5.12**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**2.80 J**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 13:23	Site:			
Sample #:	381038-127	Client Sample #:	SS88-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**2.70**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**1.955 J**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 09:17	Site:			
Sample #:	381038-128	Client Sample #:	SS91-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 09:18	Site:			
Sample #:	381038-129	Client Sample #:	SS91-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 09:19	Site:			
Sample #:	381038-130	Client Sample #:	SS91-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/02/2016 09:00	Site:			
Sample #:	381038-131	Client Sample #:	SS92-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 09:01	Site:	
Sample #: 381038-132	Client Sample #: SS92-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**21.5**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 09:03	Site:	
Sample #: 381038-133	Client Sample #: SS92-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**1.61**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 08:25	Site:	
Sample #: 381038-134	Client Sample #: SS93-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 08:41	Site:	
Sample #: 381038-135	Client Sample #: SS93-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**26.0**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 08:42	Site:	
Sample #: 381038-136	Client Sample #: SS93-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**30.8**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 08:13	Site:	
Sample #: 381038-137	Client Sample #: SS95-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 08:15	Site:	
Sample #: 381038-138	Client Sample #: SS95-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**9.03**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 08/02/2016 08:16	Site:	
Sample #: 381038-139	Client Sample #: SS95-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**3.16**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 08:06	**Site:**			
Sample #:	**381038-140**	**Client Sample #:**	SS96-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 08:07	**Site:**			
Sample #:	**381038-141**	**Client Sample #:**	SS96-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169582
Lead	**2.80**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 08:08	**Site:**			
Sample #:	**381038-142**	**Client Sample #:**	SS96-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169582
Lead	**1.34**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 09:09	**Site:**			
Sample #:	**381038-143**	**Client Sample #:**	SS97-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 09:10	**Site:**			
Sample #:	**381038-144**	**Client Sample #:**	SS97-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 09:11	**Site:**			
Sample #:	**381038-145**	**Client Sample #:**	SS97-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 09:04	**Site:**			
Sample #:	**381038-146**	**Client Sample #:**	SS98-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:05 **Site:**
Sample #: 381038-147 **Client Sample #:** SS98-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**11.6**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:06 **Site:**
Sample #: 381038-148 **Client Sample #:** SS98-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**0.93**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:15 **Site:**
Sample #: 381038-149 **Client Sample #:** SS100-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8015B *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							
Method: EPA 8082 *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:16 **Site:**
Sample #: 381038-150 **Client Sample #:** SS100-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 09:17 **Site:**
Sample #: 381038-151 **Client Sample #:** SS100-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:15 **Site:**
Sample #: 381038-152 **Client Sample #:** SS101-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:16 **Site:**
Sample #: 381038-153 **Client Sample #:** SS101-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**1.16**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**11.2**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:17 **Site:**
Sample #: 381038-154 **Client Sample #:** SS101-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**1.33**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169604		
Arsenic	**3.78**	10	0.2	3	mg/Kg	08/02/16	08/03/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:19 **Site:**
Sample #: 381038-155 **Client Sample #:** SS102-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:20 **Site:**
Sample #: 381038-156 **Client Sample #:** SS102-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**2.00**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:21 **Site:**
Sample #: 381038-157 **Client Sample #:** SS102-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169582		
Lead	**40.2**	1	0.32	0.5	mg/Kg	08/02/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:04 **Site:**
Sample #: 381038-158 **Client Sample #:** SS103-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:05 **Site:**
Sample #: 381038-159 **Client Sample #:** SS103-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169616		
Lead	**47.0**	1	0.32	0.5	mg/Kg	08/03/16	08/03/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/02/2016 08:06 **Site:**
Sample #: 381038-160 **Client Sample #:** SS103-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169616		
Lead	**11.8**	1	0.32	0.5	mg/Kg	08/03/16	08/03/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016 09:58	**Site:**			
Sample #:	**381038-161**	**Client Sample #:**	SS44-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016	**Site:**			
Sample #:	**381038-162**	**Client Sample #:**	EQBL0802-1	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169615		
Lead	ND	1	0.004	0.005	mg/L	08/03/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169609		
Arsenic	ND	1	0.13	2	ug/L	08/03/16	08/03/16	MH	
Method: EPA 8015B *NELAC*	Prep Method: Method						QCBatchID:		
See Attached		1							
Method: EPA 8081A *NELAC*	Prep Method: Method						QCBatchID:		
See Attached		1							

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016	**Site:**			
Sample #:	**381038-163**	**Client Sample #:**	EQBL0802-2	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169615		
Lead	ND	1	0.004	0.005	mg/L	08/03/16	08/03/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169609		
Arsenic	ND	1	0.13	2	ug/L	08/03/16	08/03/16	MH	
Method: EPA 8015B *NELAC*	Prep Method: Method						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016	**Site:**			
Sample #:	**381038-164**	**Client Sample #:**	COMP9	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016	**Site:**			
Sample #:	**381038-165**	**Client Sample #:**	COMP10	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016	**Site:**			
Sample #:	**381038-166**	**Client Sample #:**	COMP11	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016	**Site:**			
Sample #:	**381038-167**	**Client Sample #:**	COMP12	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/02/2016	**Site:**			
Sample #:	**381038-168**	**Client Sample #:**	COMP11 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC*	Prep Method:						QCBatchID:		
See Attached		1							

QCBatchID:	QC1169580	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/03/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169580MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169580LCS1											
Lead	100		109		mg/Kg	109			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169580MS1, QC1169580MSD1												**Source: 381038-003**
Lead	1.19	100	100	101	98.7	mg/Kg	100	98	2.3	75-125	20	

QCBatchID:	QC1169581	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/03/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169581MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169581LCS1											
Lead	100		101		mg/Kg	101			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169581MS1, QC1169581MSD1												**Source: 381038-087**
Lead	3.18	100	100	94.4	92.3	mg/Kg	91	89	2.2	75-125	20	

QCBatchID:	QC1169582	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/03/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169582MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169582LCS1											
Lead	100		103		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169582MS1, QC1169582MSD1												**Source: 381038-133**
Lead	1.61	100	100	100	101	mg/Kg	99	100	1.0	75-125	20	

QCBatchID:	QC1169604	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	08/03/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169604MB1					
Arsenic	**0.031 J**	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169604LCS1											
Arsenic	50		50.2		mg/Kg	100			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169604MS1, QC1169604MSD1												**Source: 381038-154**
Arsenic	3.78	50	50	51.8	52.5	mg/Kg	96	97	1.3	75-125	20	

QCBatchID: QC1169609	Analyst: mhuo	Method: EPA 6020
Matrix: Water	Analyzed: 08/03/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169609MB1					
Arsenic	ND	ug/L	0.13	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169609LCS1											
Arsenic	50		45.4		ug/L	91			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169609MS1, QC1169609MSD1												**Source: 381038-163**
Arsenic	ND	50	50	45.4	46.1	ug/L	91	92	1.5	75-125	20	

QCBatchID: QC1169615	Analyst: dswafford	Method: EPA 6010B
Matrix: Water	Analyzed: 08/03/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169615MB1					
Lead	ND	mg/L	0.004	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169615LCS1											
Lead	2		2.25		mg/L	113			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169615MS1, QC1169615MSD1												**Source: 381038-163**
Lead	ND	1	1	1.08	1.09	mg/L	108	109	0.9	75-125	20	

QCBatchID:	QC1169616	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/03/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169616MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169616LCS1											
Lead	200		201		mg/Kg	101			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169616MS1, QC1169616MSD1												**Source: 381038-160**
Lead	11.8	100	100	110	113	mg/Kg	98	101	2.7	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 361038 Page: 1 of 18	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: X Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS1-0.5	8/2/16	0748	Soil	1 x Acetate Sleeve	None											Hold & Archive
2	SS1-1.5	↓	0749	Soil	↓			X									
3	SS1-2.5		0750	Soil				X									
4	SS2-0.5		0754	Soil				X									Hold & Archive
5	SS2-1.5		0755	Soil				X									
6	SS2-2.5		0756	Soil				X									
~~7~~	~~SS2-0.5~~ BP			~~Soil~~													
~~8~~	~~SS2-1.5~~ BP			~~Soil~~													
9	~~SS2-2.5~~ BP			~~Soil~~													
10	SS3-0.5	8/2/16	0735	Soil	1 x Acetate Sleeve	None			X			X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/1458
1 Received By:		Dennis Dorning	Enthalpy	8/2/16 1458
2 Relinquished By:		Dennis Dorning	Enthalpy	8/2/16 1634
2 Received By:		TONY D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381038

Page: 2 of 18

Turn Around Time (Rush by advanced notice only)

Standard:	X	4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS3-1.5	8/2/16	0736	Soil	1x Acetate sleeve	None											Hold & Archive
2	SS3-2.5	↓	0737	Soil	↓	↓											Hold & Archive
3	SS4-0.5		0731	Soil					X			X	X				
4	SS4-1.5		0733	Soil													Hold & Archive
5	SS4-2.5		0735	Soil													Hold & Archive
6	SS9-0.5		1341	Soil			X	X	X								
7	SS9-1.5		1344	Soil													Hold & Archive
8	SS9-2.5		1345	Soil													Hold & Archive
9	SS21-0.5		0719	Soil													Hold & Archive
10	SS21-1.5	↓	0720	Soil	↓	↓		X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:		Dennis Dorsey	Enthalpy	8/2/16 1458
2 Relinquished By:		Dennis Dorsey	Enthalpy	8/2/16 1634
2 Received By:		Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

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Lab No: 381038

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Turn Around Time (Rush by advanced notice only)

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2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION

Company:	Alta Environmental
Report To:	Eric Fraske
Email:	eric.fraske@altaenviron.com
Address:	3777 Long Beach Boulevard
	Long Beach, CA 90807
Phone:	562-544-3910
Fax:	562-495-5877

PROJECT INFORMATION

Name:	Jefferson High School
Number:	LAUS-16-6101
P.O. #:	
Address:	1319 E. 41st Street
	Los Angeles, CA
Global ID:	
Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS21-2.5	8/2/16	0722	Soil	1x Acetate Sleeve	None		X									
2	SS22-0.5	↓	0719	Soil	↓	↓											Hold & Archive
3	SS22-1.5		0721	Soil				X									
4	SS22-2.5		0723	Soil				X									
5	SS24-0.5		0744	Soil					X								
6	SS24-1.5		0745	Soil													Hold & Archive
7	SS24-2.5		0747	Soil													Hold & Archive
8	SS27-0.5		0830	Soil													Hold & Archive
9	SS27-1.5		0831	Soil			X	X									
10	SS27-2.5	↓	0833	Soil	↓	↓	X	X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:	[signature]	Dennis Dowdy	Enthalpy	8/2/16 1458
2 Relinquished By:	[signature]	Dennis Dowdy	Enthalpy	8/2/16 1634
2 Received By:	[signature]	Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

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Chain of Custody Record

Lab No: 381038

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Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Turn Around Time (Rush by advanced notice only)

Standard:	X	4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS32-0.5	8/2/16	0742	Soil	1 x Acetate sleeve	None			X			X	X				
2	SS32-1.5		0743	Soil				X									
3	SS32-2.5		0744	Soil				X									
4	SS35-0.5		1020	Soil								X	X				
5	SS35-1.5		1021	Soil													Hold & Archive
6	SS35-2.5		1022	Soil													Hold & Archive
7	SS36-0.5		0930	Soil								X	X				
8	SS36-1.5		0931	Soil													Hold & Archive
9	SS36-2.5		0932	Soil													Hold & Archive
10	SS37-0.5		0933	Soil								X	X				

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/02/16 1458
[1] Received By:	[signature]	Dennis Dorning	Enthalpy	8/2/16 1458
[2] Relinquished By:	[signature]	Dennis Dorning	Enthalpy	8/2/16 1634
[2] Received By:	[signature]	Tony D	Enthalpy	8/2/16 1635
[3] Relinquished By:				
[3] Received By:				

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ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381038

Page: 5 of 10

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS37-0.5DUP	8/2/16	0934	Soil	1x Acetate Sleeve	None						X	X				
2	SS37-1.5	↓	0935	Soil	↓	↓											Hold & Archive
3	SS37-2.5		0936	Soil													Hold & Archive
4	SS38-0.5		1012	Soil								X	X				
5	SS38-1.5		1013	Soil				X									
6	SS38-2.5		1014	Soil				X									
7	SS39-0.5		1001	Soil								X	X				
8	SS39-1.5		1002	Soil													Hold & Archive
9	SS39-2.5		1003	Soil													Hold & Archive
10	SS40-0.5	↓	1034	Soil	↓	↓						X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:		Dennis Dorsey	Enthalpy	8/2/16 1458
2 Relinquished By:		Dennis Dorsey	Enthalpy	8/2/16 1654
2 Received By:		Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381038 Page: 6 of 18	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: X Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS40-1.5	8/2/16	1035	Soil	1 x Acetate Sleeve	None											Hold & Archive
2	SS40-2.5	↓	1036	Soil	↓	↓											Hold & Archive
3	SS41-0.5		1050	Soil								X	X				
4	SS41-1.5		1051	Soil													Hold & Archive
5	SS41-2.5		1052	Soil													Hold & Archive
6	SS42-0.5		1041	Soil								X	X				
7	SS42-1.5		1042	Soil													Hold & Archive
8	SS42-2.5		1043	Soil													Hold & Archive
9	SS43-0.5		1042	Soil								X	X				
10	SS43-0.5DUP	↓	1043	Soil	↓	↓						X	X				

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/02/16 1458
[1] Received By:	[signature]	Dennis Dorning	Enthalpy	8/2/16 1458
[2] Relinquished By:	[signature]	Dennis Dorning	Enthalpy	8/2/16 1634
[2] Received By:	[signature]	Tony D	Enthalpy	8/2/16 1035
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381038

Page: 7 of 18

Turn Around Time (Rush by advanced notice only)

Standard:	✓	4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS43-1.5	8/2/16	1045	Soil	1x Aceate Sleeve	None		X									
2	SS43-2.5		1046	Soil				X									
3	SS44-0.5		0957	Soil								X	X				
4	SS44-1.5		0959	Soil													Hold & Archive
5	SS44-2.5		1000	Soil													Hold & Archive
6	SS45-0.5		1013	Soil								X	X				
7	SS45-0.5DUP		1014	Soil													
8	SS45-1.5		1015	Soil													Hold & Archive
9	SS45-2.5		1017	Soil													Hold & Archive
10	SS46-0.5		1028	Soil								X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:		Dennis Dorsey	Enthalpy	8/2/16 1453
2 Relinquished By:		Dennis Dorsey	Enthalpy	8/2/16 1634
2 Received By:		Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

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Page: 8 of 18

Turn Around Time (Rush by advanced notice only)

Standard:	X	4 Day:		3 Day:	
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Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS46-0.5DUP	8/2/16	1029	Soil	1x Acetate Sleeve	None											
2	SS46-1.5		1031	Soil													Hold & Archive
3	SS46-2.5		1032	Soil													Hold & Archive
4	SS47-0.5		1112	Soil								X	X				
5	SS47-1.5		1113	Soil				X									
6	SS47-2.5		1114	Soil				X									
7	SS48-0.5		1114	Soil								X	X				
8	SS48-1.5		1115	Soil													Hold & Archive
9	SS48-2.5		1119	Soil													Hold & Archive
10	SS49-0.5		1120	Soil								X	X				

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/16 1457
1 Received By:		Dennis Dowing	Enthalpy	8/2/16 1458
2 Relinquished By:		Dennis Dowing	Enthalpy	8/2/16 1634
2 Received By:		Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

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Chain of Custody Record

Lab No: 381038

Page: 9 of 18

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
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Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS49-1.5	8/2/16	1121	Soil	1 x Acetate Sleeve	None											Hold & Archive
2	SS49-2.5	↓	1124	Soil	↓	↓											Hold & Archive
3	SS50-0.5		1105	Soil								X	X				
4	SS50-1.5		1106	Soil													Hold & Archive
5	SS50-2.5		1107	Soil													Hold & Archive
6	SS53-0.5		1316	Soil			X	X	X								
7	SS53-1.5		1317	Soil													Hold & Archive
8	SS53-2.5		1318	Soil													Hold & Archive
9	SS54-0.5		1326	Soil													Hold & Archive
10	SS54-1.5		1327	Soil				X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:		Dennis Dowling	Enthalpy	8/2/16 1458
2 Relinquished By:		Dennis Dowling	Enthalpy	8/2/16 1634
2 Received By:		Dan D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

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ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381038

Page: 10 of 18

Turn Around Time (Rush by advanced notice only)

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Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

Analysis Request

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS54-2.5	8/2/16	1328	Soil	1x Acetate Sleeve	None		X									
2	SS55-0.5	↓	1206	Soil	↓	↓											Hold & Archive
3	SS55-1.5		1207	Soil			X										
4	SS55-2.5		1208	Soil			X										
5	SS68-0.5		1151	Soil													Hold & Archive
6	SS68-1.5		1152	Soil				X									
7	SS68-2.5		1153	Soil				X									
8	SS70-0.5		1402	Soil													Hold & Archive
9	SS70-1.5		1403	Soil				X									
10	SS70-2.5		1404	Soil				X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:		Enthalpy - Denny Dowdy	Enthalpy	8/2/16 1458
2 Relinquished By:		Denny Dowdy	Enthalpy	8/2/16 1634
2 Received By:		Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381038 Page: 11 of 18	Standard: X · 4 Day: · 3 Day: · 2 Day: · 1 Day: X · Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS72-0.5	8/2/16	1338	Soil	1 x Acetate sleeve	None											Hold & Archive
2	SS72-1.5	↓	1339	Soil	↓	↓											Hold & Archive
3	SS72-2.5		1340	Soil													Hold & Archive
4	SS73-0.5		1354	Soil													Hold & Archive
5	SS73-1.5		1355	Soil				X									
6	SS73-2.5		1356	Soil				X									
7	SS74-0.5		1428	Soil													Hold & Archive
8	SS74-1.5		1429	Soil				X									
9	SS74-2.5		1430	Soil				X									
10	SS76-0.5	↓	1416	Soil	↓	↓											Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/02/16 1450
1 Received By:	[signature]	Dennis Bonney	Enthalpy	8/2/16 1450
2 Relinquished By:	[signature]	Dennis Bonney	Enthalpy	8/2/16 1634
2 Received By:	[signature]	Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381038 Page: 12 of 18	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: X Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS76-1.5	8/2/16	1417	Soil	1x Acetate Sleeve	None		X									
2	SS76-2.5		1418	Soil				X									
3	SS77-0.5		1419	Soil													Hold & Archive
4	SS77-1.5		1420	Soil				X									
5	SS77-2.5		1421	Soil				X									
6	SS79-0.5		1314	Soil													Hold & Archive
7	SS79-1.5		1315	Soil				X									
8	SS79-2.5		1316	Soil				X									
9	SS80-0.5		1354	Soil													Hold & Archive
10	SS80-1.5		1400	Soil				X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:		Dennis Dennis	Enthalpy	8/2/16 1458
2 Relinquished By:		Dennis Dennis	Enthalpy	8/2/16 1634
2 Received By:		Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381028 Page: 13 of	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: X Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS80-2.5	8/2/16	1401	Soil	1 x Acetate Sleeve	None		X									
2	SS82-0.5	↓	1412	Soil	↓	↓											Hold + Archive
3	SS82-1.5		1413	Soil				X									
4	SS82-2.5		1414	Soil				X									
5	SS87-0.5		1325	Soil													Hold + Archive
6	SS87-1.5		1326	Soil				X									
7	SS87-2.5		1327	Soil				X									
8	SS88-0.5		1320	Soil													Hold + Archive
9	SS88-1.5		1321	Soil			X	X									
10	SS88-2.5	↓	1323	Soil	↓	↓	X	X									

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/02/16 1458
[1] Received By:	[signature]	Dennis Darling	Enthalpy	8/2/16 1458
[2] Relinquished By:	[signature]	Dennis Darling	Enthalpy	8/2/16 1634
[2] Received By:	[signature]	Tony D	Enthalpy	8/2/16 1625
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381038 Page: 14 of 18	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: X Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS91-0.5	8/2/16	0917	Soil	1 x Aretate Sleeve	None			X								
2	SS91-1.5	↓	0918	Soil	↓	↓											Hold & Archive
3	SS91-2.5		0919	Soil													Hold & Archive
4	SS92-0.5		0900	Soil													Hold & Archive
5	SS92-1.5		0901	Soil				X									
6	SS92-2.5		0903	Soil				X									
7	SS93-0.5		0825	Soil													Hold & Archive
8	SS93-1.5		0841	Soil				X									
9	SS93-2.5		0842	Soil				X									
10	SS95-0.5	↓	0813	Soil	↓	↓											Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:		[illegible]	Enthalpy	8/2/16 1458
2 Relinquished By:		[illegible]	Enthalpy	8/2/16 1634
2 Received By:		Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

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c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381038

Page: 15 of 18

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

Analysis Request

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS95-1.5	8/2/16	0815	Soil	1x Acetate Sleeve	None		X									
2	SS95-2.5	↓	0816	Soil	↓	↓		X									
3	SS96-0.5	↓	0806	Soil	↓	↓											Hold & Archive
4	SS96-1.5	↓	0807	Soil	↓	↓		X									
5	SS96-2.5	↓	0808	Soil	↓	↓		X									
6	SS97-0.5	↓	0909	Soil	↓	↓			X			X	X				
7	SS97-1.5	↓	0910	Soil	↓	↓											Hold & Archive
8	SS97-2.5	↓	0911	Soil	↓	↓											Hold & Archive
9	SS98-0.5	↓	0904	Soil	↓	↓											Hold & Archive
10	SS98-1.5	↓	0905	Soil	↓	↓		X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:	[illegible]	Dennis Downing	Enthalpy	8/2/16 1458
2 Relinquished By:	[illegible]	Dennis Downing	Enthalpy	8/2/16 1634
2 Received By:	[illegible]	Tom D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381038

Page: 16 of 18

Turn Around Time (Rush by advanced notice only)

Standard:	✓	4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS98-2.5	8/2/16	0906	Soil	1x Acetate Sleeve	None		X									
2	SS100-0.5	↓	0915	Soil	↓	↓			X			X	X				
3	SS100-1.5		0916	Soil													Hold & Archive
4	SS100-2.5		0917	Soil													Hold & Archive
5	SS101-0.5		0815	Soil													Hold & Archive
6	SS101-1.5		0816	Soil			X	X									
7	SS101-2.5		0817	Soil			X	X									
8	SS102-0.5		0819	Soil													Hold & Archive
9	SS102-1.5		0820	Soil				X									
10	SS102-2.5	↓	0821	Soil	↓	↓		X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:	[illegible]	[illegible]	Enthalpy	8/2/16 1458
2 Relinquished By:	[illegible]	[illegible]	Enthalpy	8/2/16 1634
2 Received By:	[illegible]	Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

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c/o Montrose Environmental Group
1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381038

Page: 17 of 18

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	SS103-0.5	8/2/16	0804	Soil	1 x Aretate Sleeve	None											Hold & Archive
2	SS103-1.5		0805	Soil				X									
3	SS103-2.5		0806	Soil				X									
4	SS44-0.5DUP		0958	Soil													
5	EQBL 0802-1		—	Water	3 x 1 L Amber 1x Poly	Various	X	X	X			X	X				
6	EQBL 0802-2		—	Water	3 x 1 L Amber 1x poly	Various	X	X	X			X	X				
7	COMP9		—	Soil	—	None			X								Composite SS35-0.5, SS38-0.5 SS36-0.5, SS37-0.5
8	COMP10		—	Soil	—				X								Composite SS39-0.5, SS40-0.5 SS41-0.5, SS42-0.5
9	COMP11		—	Soil	—				X								Composite SS43-0.5, SS44-0.5, SS45-0.5, SS46-0.5
10	COMP12		—	Soil	—				X								Composite SS47-0.5, SS48-0.5 SS49-0.5, SS50-0.5

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:	[signature]	Dennis Dorning	Enthalpy	8/2/16 1458
2 Relinquished By:	[signature]	Dennis Dorning	Enthalpy	8/2/16 1634
2 Received By:	[signature]	Tony D	Enthalpy	8/2/16 1635
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381038 Page: 18 of 18	Standard: ☒ 4 Day: 3 Day: 2 Day: 1 Day: X Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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Company:	Alta Environmental	Name:	Jefferson High School
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Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)				Test Instructions / Comments
1	COMP 11DUP	8/2/16	—	Soil	—	None			X								composite 5543-0.5DUP, 5544-0.5DUP 5545-0.5DUP, 5546-0.5DUP
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/02/16 1458
1 Received By:	[signature]	Dennis Dorning	Enthalpy	8/2/16 1458
2 Relinquished By:	[signature]	Dennis Dorning	Enthalpy	8/2/16 1634
2 Received By:	[signature]	JONY D	Enthalpy	8/3/16 1035
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Alta Environmental

Project: Jefferson High School

Date Received: 08/02/16

Sampler's Signature Present: Yes (No)

Sample(s) received in a cooler? (Yes) How many? 3 No (skip section 2) Sample Temp (°C):

Sample Temp (°C) from each cooler: #1: 15.1 #2: 10.9 #3: 12.1 #4:

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information:

Section 2

Was the cooler packed with: X Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other

Cooler Temp (°C): #1: -2.1 #2: -2.2 #3: -1.9 #4:

Section 3	YES	NO	N/A
Was a COC received?	X		
Were IDs present?	X		
Were sampling dates & times present?	X		
Was a signature present?	X		
Were tests clearly indicated?	X		
Were custody seals present?	X	~~X~~	JD
If Yes – were they intact?	X		
Were all samples sealed in plastic bags?	X		
Did all samples arrive intact? If no, indicate below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were correct containers used for the tests required?	X		
Was a sufficient amount of sample sent for tests indicated?	X		
Was there headspace in VOA vials?			X
Were the containers labeled with correct preservatives?	X		
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay department immediately.*			X

Section 4

Explanations/Comments:

Section 5

Was the Project Manager notified via email of discrepancies: Yes No (N/A)

Was the email sent to:

Project Manager's response:

Completed By: Date: 08/02/16

eurofins | Calscience

WORK ORDER NUMBER: 16-08-0151

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Enthalpy Analytical, Inc.

Client Project Name: 381038

Attention: Ranjit Clarke
806 North Batavia
Orange, CA 92868-1242

Approved for release on 08/04/2016 by:
Xuan Dang
Project Manager

ResultLink

Email your PM

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Work Order Number: 16-08-0151

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Work Order Narrative

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/02/16. They were assigned to Work Order 16-08-0151.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Enthalpy Analytical, Inc. 806 North Batavia Orange, CA 92868-1242	Work Order:	16-08-0151
		Project Name:	381038
		PO Number:	
		Date/Time Received:	08/02/16 18:42
		Number of Containers:	38
Attn:	Ranjit Clarke		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SS3-0.5 (381038-007)	16-08-0151-1	08/02/16 07:35	1	Solid
SS4-0.5 (381038-010)	16-08-0151-2	08/02/16 07:31	1	Solid
SS9-0.5 (381038-013)	16-08-0151-3	08/02/16 13:41	1	Solid
SS24-0.5 (381038-022)	16-08-0151-4	08/02/16 07:44	1	Solid
SS32-0.5 (381038-028)	16-08-0151-5	08/02/16 07:42	1	Solid
SS35-0.5 (381038-031)	16-08-0151-6	08/02/16 10:20	1	Solid
SS36-0.5 (381038-034)	16-08-0151-7	08/02/16 09:30	1	Solid
SS37-0.5 (381038-037)	16-08-0151-8	08/02/16 09:33	1	Solid
SS37-0.5 DUP (381038-038)	16-08-0151-9	08/02/16 09:34	1	Solid
SS38-0.5 (381038-041)	16-08-0151-10	08/02/16 10:12	1	Solid
SS39-0.5 (381038-044)	16-08-0151-11	08/02/16 10:01	1	Solid
SS40-0.5 (381038-047)	16-08-0151-12	08/02/16 10:34	1	Solid
SS41-0.5 (381038-050)	16-08-0151-13	08/02/16 10:50	1	Solid
SS42-0.5 (381038-053)	16-08-0151-14	08/02/16 10:41	1	Solid
SS43-0.5 (381038-056)	16-08-0151-15	08/02/16 10:42	1	Solid
SS43-0.5 DUP (381038-057)	16-08-0151-16	08/02/16 10:43	1	Solid
SS44-0.5 (381038-060)	16-08-0151-17	08/02/16 09:57	1	Solid
SS45-0.5 (381038-063)	16-08-0151-18	08/02/16 10:13	1	Solid
SS46-0.5 (381038-067)	16-08-0151-19	08/02/16 10:28	1	Solid
SS47-0.5 (381038-071)	16-08-0151-20	08/02/16 11:12	1	Solid
SS48-0.5 (381038-074)	16-08-0151-21	08/02/16 11:14	1	Solid
SS49-0.5 (381038-077)	16-08-0151-22	08/02/16 11:20	1	Solid
SS50-0.5 (381038-080)	16-08-0151-23	08/02/16 11:05	1	Solid
SS53-0.5 (381038-083)	16-08-0151-24	08/02/16 13:16	1	Solid
SS91-0.5 (381038-128)	16-08-0151-25	08/02/16 09:17	1	Solid
SS97-0.5 (381038-143)	16-08-0151-26	08/02/16 09:09	1	Solid
SS100-0.5 (381038-149)	16-08-0151-27	08/02/16 09:15	1	Solid
EQBL0802-1 (381038-162)	16-08-0151-28	08/02/16 00:00	3	Aqueous
EQBL0802-2 (381038-163)	16-08-0151-29	08/02/16 00:00	3	Aqueous
COMP9 (381038-164)	16-08-0151-30	08/02/16 00:00	1	Solid
COMP10 (381038-165)	16-08-0151-31	08/02/16 00:00	1	Solid
COMP11 (381038-166)	16-08-0151-32	08/02/16 00:00	1	Solid
COMP12 (381038-167)	16-08-0151-33	08/02/16 00:00	1	Solid
COMP11 DUP (381038-168)	16-08-0151-34	08/02/16 00:00	1	Solid

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Detections Summary

Client:	Enthalpy Analytical, Inc. 806 North Batavia Orange, CA 92868-1242	Work Order: Project Name: Received:	16-08-0151 381038 08/02/16
Attn:	Ranjit Clarke		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SS4-0.5 (381038-010) (16-08-0151-2)						
TPH as Motor Oil	14	HD,J	6.0*	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	4.4	HD,J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
SS24-0.5 (381038-022) (16-08-0151-4)						
Chlordane	59		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	6.7		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	3.0	J	2.2*	ug/kg	EPA 8081A	EPA 3545
SS32-0.5 (381038-028) (16-08-0151-5)						
TPH as Motor Oil	23	HD,J	5.9*	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	3.8	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Chlordane	31	J	26*	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	3.5	J	2.2*	ug/kg	EPA 8081A	EPA 3545
SS35-0.5 (381038-031) (16-08-0151-6)						
TPH as Motor Oil	270	HD	130	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	43	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
SS36-0.5 (381038-034) (16-08-0151-7)						
TPH as Motor Oil	1700	HD	630	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	180	HD	130	mg/kg	EPA 8015B (M)	EPA 3550B
SS37-0.5 (381038-037) (16-08-0151-8)						
TPH as Motor Oil	61	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	5.1	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
SS37-0.5 DUP (381038-038) (16-08-0151-9)						
TPH as Motor Oil	170	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	10	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
SS38-0.5 (381038-041) (16-08-0151-10)						
TPH as Motor Oil	200	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	18	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
Aroclor-1260	32	J	30*	ug/kg	EPA 8082	EPA 3545
SS39-0.5 (381038-044) (16-08-0151-11)						
TPH as Motor Oil	530	HD	120	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	30	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
SS40-0.5 (381038-047) (16-08-0151-12)						
TPH as Motor Oil	52	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	3.0	HD,J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
SS42-0.5 (381038-053) (16-08-0151-14)						
TPH as Motor Oil	17	HD,J	6.0*	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	1.6	HD,J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B

* MDL is shown

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Detections Summary

Client:	Enthalpy Analytical, Inc. 806 North Batavia Orange, CA 92868-1242	Work Order: Project Name: Received:	16-08-0151 381038 08/02/16
Attn:	Ranjit Clarke		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SS43-0.5 (381038-056) (16-08-0151-15)						
TPH as Motor Oil	89	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	12	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
SS43-0.5 DUP (381038-057) (16-08-0151-16)						
TPH as Motor Oil	87	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	13	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
SS44-0.5 (381038-060) (16-08-0151-17)						
TPH as Motor Oil	1200	HD	250	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	91	HD	50	mg/kg	EPA 8015B (M)	EPA 3550B
SS45-0.5 (381038-063) (16-08-0151-18)						
TPH as Motor Oil	170	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	19	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
SS46-0.5 (381038-067) (16-08-0151-19)						
TPH as Motor Oil	30	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
SS47-0.5 (381038-071) (16-08-0151-20)						
TPH as Motor Oil	570	HD	120	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	43	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
SS48-0.5 (381038-074) (16-08-0151-21)						
TPH as Motor Oil	150	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	9.6	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
SS49-0.5 (381038-077) (16-08-0151-22)						
TPH as Motor Oil	260	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	29	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
SS50-0.5 (381038-080) (16-08-0151-23)						
TPH as Motor Oil	120	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	93	HD	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
SS53-0.5 (381038-083) (16-08-0151-24)						
Chlordane	30	J	26*	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	3.8	J	2.2*	ug/kg	EPA 8081A	EPA 3545
SS100-0.5 (381038-149) (16-08-0151-27)						
TPH as Motor Oil	36	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	4.5	HD,J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
EQBL0802-2 (381038-163) (16-08-0151-29)						
TPH as Diesel	12	HD,J	8.0*	ug/L	EPA 8015B (M)	EPA 3510C
COMP9 (381038-164) (16-08-0151-30)						
4,4'-DDD	3.7	J	2.4*	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	3.0	J	2.2*	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	2.8	J	2.2*	ug/kg	EPA 8081A	EPA 3545

* MDL is shown

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Detections Summary

Client:	Enthalpy Analytical, Inc. 806 North Batavia Orange, CA 92868-1242	Work Order: Project Name: Received:	16-08-0151 381038 08/02/16
Attn:	Ranjit Clarke		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
COMP10 (381038-165) (16-08-0151-31)						
4,4'-DDT	2.2	J	2.2*	ug/kg	EPA 8081A	EPA 3545
COMP11 (381038-166) (16-08-0151-32)						
4,4'-DDD	2.8	J	2.3*	ug/kg	EPA 8081A	EPA 3545
COMP12 (381038-167) (16-08-0151-33)						
4,4'-DDT	2.2	J	2.2*	ug/kg	EPA 8081A	EPA 3545

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: 381038			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQBL0802-1 (381038-162)	**16-08-0151-28-A**	**08/02/16 00:00**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 17:17**	**160803B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	250	53	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	68-140	

EQBL0802-2 (381038-163)	**16-08-0151-29-A**	**08/02/16 00:00**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 17:33**	**160803B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	250	53	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	68-140	

Method Blank	**099-15-278-1257**	**N/A**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 15:52**	**160803B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	250	53	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: 381038			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQBL0802-1 (381038-162)	**16-08-0151-28-A**	**08/02/16 00:00**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 17:17**	**160803B05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	50	8.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	68-140	

EQBL0802-2 (381038-163)	**16-08-0151-29-A**	**08/02/16 00:00**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 17:33**	**160803B05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	12	50	8.0	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	68-140	

Method Blank	**099-15-304-1477**	**N/A**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 15:52**	**160803B05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	50	8.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS4-0.5 (381038-010)	**16-08-0151-2-A**	**08/02/16 07:31**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 15:54**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	14	25	6.0	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

SS32-0.5 (381038-028)	**16-08-0151-5-A**	**08/02/16 07:42**	**Solid**	**GC 47**	**08/03/16**	**08/04/16 11:51**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	23	25	5.9	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

SS35-0.5 (381038-031)	**16-08-0151-6-A**	**08/02/16 10:20**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 16:29**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	270	130	30	5.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	61-145	

SS36-0.5 (381038-034)	**16-08-0151-7-A**	**08/02/16 09:30**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 16:46**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	1700	630	150	25.0	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS37-0.5 (381038-037)	**16-08-0151-8-A**	**08/02/16 09:33**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 17:04**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	61	25	5.9	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

SS37-0.5 DUP (381038-038)	**16-08-0151-9-A**	**08/02/16 09:34**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 17:21**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	170	25	6.0	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	89	61-145	

SS38-0.5 (381038-041)	**16-08-0151-10-A**	**08/02/16 10:12**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 17:39**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	200	25	5.9	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	61-145	

SS39-0.5 (381038-044)	**16-08-0151-11-A**	**08/02/16 10:01**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 18:13**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	530	120	30	5.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS40-0.5 (381038-047)	**16-08-0151-12-A**	**08/02/16 10:34**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 18:30**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	52	25	5.9	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS41-0.5 (381038-050)	**16-08-0151-13-A**	**08/02/16 10:50**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 18:48**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	65	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS42-0.5 (381038-053)	**16-08-0151-14-A**	**08/02/16 10:41**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 19:39**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	17	25	6.0	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS43-0.5 (381038-056)	**16-08-0151-15-A**	**08/02/16 10:42**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 19:56**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	89	25	6.0	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS43-0.5 DUP (381038-057)	**16-08-0151-16-A**	**08/02/16 10:43**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 20:14**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	87	25	6.0	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

SS44-0.5 (381038-060)	**16-08-0151-17-A**	**08/02/16 09:57**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 20:31**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	1200	250	59	10.0	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	121	61-145	

SS45-0.5 (381038-063)	**16-08-0151-18-A**	**08/02/16 10:13**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 20:48**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	170	25	5.9	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

SS46-0.5 (381038-067)	**16-08-0151-19-A**	**08/02/16 10:28**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:05**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	30	25	6.0	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS47-0.5 (381038-071)	**16-08-0151-20-A**	**08/02/16 11:12**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:22**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	570	120	30	5.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

SS48-0.5 (381038-074)	**16-08-0151-21-A**	**08/02/16 11:14**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:39**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	150	25	5.9	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

SS49-0.5 (381038-077)	**16-08-0151-22-A**	**08/02/16 11:20**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:57**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	260	25	5.9	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

SS50-0.5 (381038-080)	**16-08-0151-23-A**	**08/02/16 11:05**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 22:14**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	120	25	6.0	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS97-0.5 (381038-143)	**16-08-0151-26-A**	**08/02/16 09:09**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 16:16**	**160803B02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	5.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

SS100-0.5 (381038-149)	**16-08-0151-27-A**	**08/02/16 09:15**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 16:31**	**160803B02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	36	25	6.0	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	77	61-145	

Method Blank	**099-15-420-1920**	**N/A**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 12:24**	**160803B02**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	73	61-145	

Method Blank	**099-15-420-1921**	**N/A**	**Solid**	**GC 47**	**08/01/16**	**08/03/16 13:53**	**160803B04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Motor Oil	ND	25	6.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS4-0.5 (381038-010)	**16-08-0151-2-A**	**08/02/16 07:31**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 15:54**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	4.4	5.0	1.3	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

SS32-0.5 (381038-028)	**16-08-0151-5-A**	**08/02/16 07:42**	**Solid**	**GC 47**	**08/03/16**	**08/04/16 11:51**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	3.8	5.0	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

SS35-0.5 (381038-031)	**16-08-0151-6-A**	**08/02/16 10:20**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 16:29**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	43	25	6.3	5.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	61-145	

SS36-0.5 (381038-034)	**16-08-0151-7-A**	**08/02/16 09:30**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 16:46**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	180	130	31	25.0	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS37-0.5 (381038-037)	**16-08-0151-8-A**	**08/02/16 09:33**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 17:04**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	5.1	5.0	1.2	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

SS37-0.5 DUP (381038-038)	**16-08-0151-9-A**	**08/02/16 09:34**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 17:21**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	10	5.0	1.3	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	89	61-145	

SS38-0.5 (381038-041)	**16-08-0151-10-A**	**08/02/16 10:12**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 17:39**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	18	5.0	1.2	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	61-145	

SS39-0.5 (381038-044)	**16-08-0151-11-A**	**08/02/16 10:01**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 18:13**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	30	25	6.2	5.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS40-0.5 (381038-047)	**16-08-0151-12-A**	**08/02/16 10:34**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 18:30**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	3.0	5.0	1.2	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

SS41-0.5 (381038-050)	**16-08-0151-13-A**	**08/02/16 10:50**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 18:48**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	65	61-145	

SS42-0.5 (381038-053)	**16-08-0151-14-A**	**08/02/16 10:41**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 19:39**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	1.6	5.0	1.3	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

SS43-0.5 (381038-056)	**16-08-0151-15-A**	**08/02/16 10:42**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 19:56**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	12	5.0	1.3	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS43-0.5 DUP (381038-057)	**16-08-0151-16-A**	**08/02/16 10:43**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 20:14**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	13	5.0	1.3	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

SS44-0.5 (381038-060)	**16-08-0151-17-A**	**08/02/16 09:57**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 20:31**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	91	50	12	10.0	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	121	61-145	

SS45-0.5 (381038-063)	**16-08-0151-18-A**	**08/02/16 10:13**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 20:48**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	19	5.0	1.2	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

SS46-0.5 (381038-067)	**16-08-0151-19-A**	**08/02/16 10:28**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:05**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	104	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS47-0.5 (381038-071)	**16-08-0151-20-A**	**08/02/16 11:12**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:22**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	43	25	6.3	5.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	98	61-145	

SS48-0.5 (381038-074)	**16-08-0151-21-A**	**08/02/16 11:14**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:39**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	9.6	5.0	1.2	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	99	61-145	

SS49-0.5 (381038-077)	**16-08-0151-22-A**	**08/02/16 11:20**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:57**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	29	5.0	1.2	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

SS50-0.5 (381038-080)	**16-08-0151-23-A**	**08/02/16 11:05**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 22:14**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	93	5.0	1.3	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	114	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: 381038			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS97-0.5 (381038-143)	**16-08-0151-26-A**	**08/02/16 09:09**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 16:16**	**160803B01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

SS100-0.5 (381038-149)	**16-08-0151-27-A**	**08/02/16 09:15**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 16:31**	**160803B01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	4.5	5.0	1.3	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	77	61-145	

Method Blank	**099-15-422-2577**	**N/A**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 12:24**	**160803B01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	73	61-145	

Method Blank	**099-15-422-2578**	**N/A**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 13:53**	**160803B03**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 1 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS3-0.5 (381038-007)	**16-08-0151-1-A**	**08/02/16 07:35**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 15:08**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.3	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.3	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	117	24-168	
2,4,5,6-Tetrachloro-m-Xylene	103	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 2 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS4-0.5 (381038-010)	**16-08-0151-2-A**	**08/02/16 07:31**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 15:23**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.4	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.4	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	116	24-168	
2,4,5,6-Tetrachloro-m-Xylene	107	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 3 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS9-0.5 (381038-013)	**16-08-0151-3-A**	**08/02/16 13:41**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 15:37**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.4	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.4	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	24-168	
2,4,5,6-Tetrachloro-m-Xylene	98	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 4 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS24-0.5 (381038-022)	**16-08-0151-4-A**	**08/02/16 07:44**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 15:51**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	59	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	6.7	5.0	2.2	1.00	
4,4'-DDT	3.0	5.0	2.2	1.00	J
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.4	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.4	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	112	24-168	
2,4,5,6-Tetrachloro-m-Xylene	101	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 5 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS32-0.5 (381038-028)	**16-08-0151-5-A**	**08/02/16 07:42**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 16:05**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	31	50	26	1.00	J
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	3.5	5.0	2.2	1.00	J
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.3	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.3	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	110	24-168	
2,4,5,6-Tetrachloro-m-Xylene	103	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 6 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS53-0.5 (381038-083)	**16-08-0151-24-A**	**08/02/16 13:16**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 16:20**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	30	50	26	1.00	J
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	3.8	5.0	2.2	1.00	J
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.4	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.4	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	115	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 7 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS91-0.5 (381038-128)	**16-08-0151-25-A**	**08/02/16 09:17**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 16:34**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.3	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.3	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	116	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 8 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS97-0.5 (381038-143)	**16-08-0151-26-A**	**08/02/16 09:09**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 18:41**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.3	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.3	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	24-168	
2,4,5,6-Tetrachloro-m-Xylene	100	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 9 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS100-0.5 (381038-149)	**16-08-0151-27-A**	**08/02/16 09:15**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 18:55**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.4	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.4	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP9 (381038-164)	**16-08-0151-30-A**	**08/02/16 00:00**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 19:10**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	3.7	5.0	2.4	1.00	J
4,4'-DDE	3.0	5.0	2.2	1.00	J
4,4'-DDT	2.8	5.0	2.2	1.00	J
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.3	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.3	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	24-168	
2,4,5,6-Tetrachloro-m-Xylene	116	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 11 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP10 (381038-165)	**16-08-0151-31-A**	**08/02/16 00:00**	**Solid**	**GC 44**	**08/03/16**	**08/04/16 11:10**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	2.2	5.0	2.2	1.00	J
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.4	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.4	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	64	24-168	
2,4,5,6-Tetrachloro-m-Xylene	63	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 12 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP11 (381038-166)	**16-08-0151-32-A**	**08/02/16 00:00**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 19:24**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	9.9	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	2.8	5.0	2.3	1.00	J
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	9.9	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.3	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.3	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.1	1.00	
Heptachlor Epoxide	ND	9.9	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	99	44	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	110	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 13 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP12 (381038-167)	**16-08-0151-33-A**	**08/02/16 00:00**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 19:38**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	2.2	5.0	2.2	1.00	J
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.3	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.3	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	24-168	
2,4,5,6-Tetrachloro-m-Xylene	116	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 14 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
COMP11 DUP (381038-168)	**16-08-0151-34-A**	**08/02/16 00:00**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 19:52**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.3	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.3	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	109	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 381038			Page 15 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2489**	**N/A**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 14:54**	**160803L07**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aldrin	ND	5.0	2.2	1.00	
Alpha-BHC	ND	10	3.7	1.00	
Beta-BHC	ND	5.0	2.5	1.00	
Chlordane	ND	50	26	1.00	
4,4'-DDD	ND	5.0	2.4	1.00	
4,4'-DDE	ND	5.0	2.2	1.00	
4,4'-DDT	ND	5.0	2.2	1.00	
Delta-BHC	ND	10	4.4	1.00	
Dieldrin	ND	5.0	2.2	1.00	
Endosulfan I	ND	5.0	2.0	1.00	
Endosulfan II	ND	5.0	2.4	1.00	
Endosulfan Sulfate	ND	5.0	2.6	1.00	
Endrin	ND	5.0	2.4	1.00	
Endrin Aldehyde	ND	5.0	3.0	1.00	
Endrin Ketone	ND	5.0	2.5	1.00	
Gamma-BHC	ND	5.0	2.2	1.00	
Heptachlor	ND	5.0	2.2	1.00	
Heptachlor Epoxide	ND	10	3.7	1.00	
Methoxychlor	ND	5.0	2.7	1.00	
Toxaphene	ND	100	45	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	128	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: 381038			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQBL0802-1 (381038-162)	**16-08-0151-28-C**	**08/02/16 00:00**	**Aqueous**	**GC 41**	**08/03/16**	**08/03/16 16:36**	**160803L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.095	0.027	1.00	
Gamma-BHC	ND	0.095	0.029	1.00	
Beta-BHC	ND	0.095	0.029	1.00	
Heptachlor	ND	0.095	0.025	1.00	
Delta-BHC	ND	0.095	0.027	1.00	
Aldrin	ND	0.095	0.025	1.00	
Heptachlor Epoxide	ND	0.095	0.024	1.00	
Endosulfan I	ND	0.095	0.026	1.00	
Dieldrin	ND	0.095	0.027	1.00	
4,4'-DDE	ND	0.095	0.025	1.00	
Endrin	ND	0.095	0.029	1.00	
Endrin Aldehyde	ND	0.095	0.025	1.00	
4,4'-DDD	ND	0.095	0.026	1.00	
Endosulfan II	ND	0.095	0.026	1.00	
4,4'-DDT	ND	0.095	0.025	1.00	
Endosulfan Sulfate	ND	0.095	0.028	1.00	
Methoxychlor	ND	0.095	0.024	1.00	
Chlordane	ND	0.95	0.31	1.00	
Toxaphene	ND	1.9	0.56	1.00	
Endrin Ketone	ND	0.095	0.023	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	50-135	
2,4,5,6-Tetrachloro-m-Xylene	105	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: 381038			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQBL0802-2 (381038-163)	**16-08-0151-29-C**	**08/02/16 00:00**	**Aqueous**	**GC 41**	**08/03/16**	**08/03/16 16:51**	**160803L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.095	0.027	1.00	
Gamma-BHC	ND	0.095	0.029	1.00	
Beta-BHC	ND	0.095	0.029	1.00	
Heptachlor	ND	0.095	0.025	1.00	
Delta-BHC	ND	0.095	0.027	1.00	
Aldrin	ND	0.095	0.025	1.00	
Heptachlor Epoxide	ND	0.095	0.024	1.00	
Endosulfan I	ND	0.095	0.026	1.00	
Dieldrin	ND	0.095	0.027	1.00	
4,4'-DDE	ND	0.095	0.025	1.00	
Endrin	ND	0.095	0.029	1.00	
Endrin Aldehyde	ND	0.095	0.025	1.00	
4,4'-DDD	ND	0.095	0.026	1.00	
Endosulfan II	ND	0.095	0.026	1.00	
4,4'-DDT	ND	0.095	0.025	1.00	
Endosulfan Sulfate	ND	0.095	0.028	1.00	
Methoxychlor	ND	0.095	0.024	1.00	
Chlordane	ND	0.95	0.31	1.00	
Toxaphene	ND	1.9	0.56	1.00	
Endrin Ketone	ND	0.095	0.023	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	50-135	
2,4,5,6-Tetrachloro-m-Xylene	120	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: 381038			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-529-895**	**N/A**	**Aqueous**	**GC 41**	**08/03/16**	**08/03/16 16:21**	**160803L04**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alpha-BHC	ND	0.10	0.028	1.00	
Gamma-BHC	ND	0.10	0.030	1.00	
Beta-BHC	ND	0.10	0.030	1.00	
Heptachlor	ND	0.10	0.026	1.00	
Delta-BHC	ND	0.10	0.029	1.00	
Aldrin	ND	0.10	0.027	1.00	
Heptachlor Epoxide	ND	0.10	0.025	1.00	
Endosulfan I	ND	0.10	0.028	1.00	
Dieldrin	ND	0.10	0.029	1.00	
4,4'-DDE	ND	0.10	0.027	1.00	
Endrin	ND	0.10	0.031	1.00	
Endrin Aldehyde	ND	0.10	0.026	1.00	
4,4'-DDD	ND	0.10	0.027	1.00	
Endosulfan II	ND	0.10	0.027	1.00	
4,4'-DDT	ND	0.10	0.027	1.00	
Endosulfan Sulfate	ND	0.10	0.029	1.00	
Methoxychlor	ND	0.10	0.025	1.00	
Chlordane	ND	1.0	0.33	1.00	
Toxaphene	ND	2.0	0.59	1.00	
Endrin Ketone	ND	0.10	0.024	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	50-135	
2,4,5,6-Tetrachloro-m-Xylene	88	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS4-0.5 (381038-010)	**16-08-0151-2-A**	**08/02/16 07:31**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 01:40**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	102	25-145	

SS32-0.5 (381038-028)	**16-08-0151-5-A**	**08/02/16 07:42**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 01:58**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	93	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 2 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS35-0.5 (381038-031)	**16-08-0151-6-A**	**08/02/16 10:20**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 02:16**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	51	21	1.00	
Aroclor-1221	ND	51	43	1.00	
Aroclor-1232	ND	51	25	1.00	
Aroclor-1242	ND	51	38	1.00	
Aroclor-1248	ND	51	32	1.00	
Aroclor-1254	ND	51	32	1.00	
Aroclor-1260	ND	51	31	1.00	
Aroclor-1262	ND	51	35	1.00	
Aroclor-1268	ND	51	34	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

SS36-0.5 (381038-034)	**16-08-0151-7-A**	**08/02/16 09:30**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 02:34**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	24-168	
2,4,5,6-Tetrachloro-m-Xylene	99	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 3 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS37-0.5 (381038-037)	**16-08-0151-8-A**	**08/02/16 09:33**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 02:52**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

SS37-0.5 DUP (381038-038)	**16-08-0151-9-A**	**08/02/16 09:34**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 03:10**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	92	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS38-0.5 (381038-041)	**16-08-0151-10-A**	**08/02/16 10:12**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 03:28**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	32	50	30	1.00	J
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	53	24-168	
2,4,5,6-Tetrachloro-m-Xylene	57	25-145	

SS39-0.5 (381038-044)	**16-08-0151-11-A**	**08/02/16 10:01**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 15:15**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	30	24-168	
2,4,5,6-Tetrachloro-m-Xylene	26	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 5 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS40-0.5 (381038-047)	**16-08-0151-12-A**	**08/02/16 10:34**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 09:43**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

SS41-0.5 (381038-050)	**16-08-0151-13-A**	**08/02/16 10:50**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 10:01**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	64	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 6 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS42-0.5 (381038-053)	**16-08-0151-14-A**	**08/02/16 10:41**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 10:19**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	51	24-168	
2,4,5,6-Tetrachloro-m-Xylene	44	25-145	

SS43-0.5 (381038-056)	**16-08-0151-15-A**	**08/02/16 10:42**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 10:37**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	43	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	31	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	34	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS43-0.5 DUP (381038-057)	**16-08-0151-16-A**	**08/02/16 10:43**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 10:55**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

SS44-0.5 (381038-060)	**16-08-0151-17-A**	**08/02/16 09:57**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 11:12**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	94	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 8 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS45-0.5 (381038-063)	**16-08-0151-18-A**	**08/02/16 10:13**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 11:30**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

SS46-0.5 (381038-067)	**16-08-0151-19-A**	**08/02/16 10:28**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 11:48**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 9 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS47-0.5 (381038-071)	**16-08-0151-20-A**	**08/02/16 11:12**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 12:06**	**160803L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

SS48-0.5 (381038-074)	**16-08-0151-21-A**	**08/02/16 11:14**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 12:24**	**160803L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS49-0.5 (381038-077)	**16-08-0151-22-A**	**08/02/16 11:20**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 12:42**	**160803L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

SS50-0.5 (381038-080)	**16-08-0151-23-A**	**08/02/16 11:05**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 13:00**	**160803L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 11 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS97-0.5 (381038-143)	**16-08-0151-26-A**	**08/02/16 09:09**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 13:18**	**160803L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

SS100-0.5 (381038-149)	**16-08-0151-27-A**	**08/02/16 09:15**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 13:36**	**160803L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	64	24-168	
2,4,5,6-Tetrachloro-m-Xylene	58	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 381038			Page 12 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-3852**	**N/A**	**Solid**	**GC 66**	**08/03/16**	**08/03/16 23:35**	**160803L08**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

Method Blank	**099-12-535-3853**	**N/A**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 00:47**	**160803L09**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	95	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8082
		Units:	ug/L
Project: 381038			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EQBL0802-1 (381038-162)	**16-08-0151-28-C**	**08/02/16 00:00**	**Aqueous**	**GC 66**	**08/03/16**	**08/03/16 22:42**	**160803L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.95	0.28	1.00	
Aroclor-1221	ND	0.95	0.27	1.00	
Aroclor-1232	ND	0.95	0.24	1.00	
Aroclor-1242	ND	0.95	0.17	1.00	
Aroclor-1248	ND	0.95	0.19	1.00	
Aroclor-1254	ND	0.95	0.21	1.00	
Aroclor-1260	ND	0.95	0.25	1.00	
Aroclor-1262	ND	0.95	0.25	1.00	
Aroclor-1268	ND	0.95	0.20	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	50-135	
2,4,5,6-Tetrachloro-m-Xylene	82	50-135	

EQBL0802-2 (381038-163)	**16-08-0151-29-C**	**08/02/16 00:00**	**Aqueous**	**GC 66**	**08/03/16**	**08/03/16 23:00**	**160803L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	0.95	0.28	1.00	
Aroclor-1221	ND	0.95	0.27	1.00	
Aroclor-1232	ND	0.95	0.24	1.00	
Aroclor-1242	ND	0.95	0.17	1.00	
Aroclor-1248	ND	0.95	0.19	1.00	
Aroclor-1254	ND	0.95	0.21	1.00	
Aroclor-1260	ND	0.95	0.25	1.00	
Aroclor-1262	ND	0.95	0.25	1.00	
Aroclor-1268	ND	0.95	0.20	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	50-135	
2,4,5,6-Tetrachloro-m-Xylene	80	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8082
		Units:	ug/L
Project: 381038			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-533-1184**	**N/A**	**Aqueous**	**GC 66**	**08/03/16**	**08/03/16 22:24**	**160803L05**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	1.0	0.29	1.00	
Aroclor-1221	ND	1.0	0.28	1.00	
Aroclor-1232	ND	1.0	0.25	1.00	
Aroclor-1242	ND	1.0	0.18	1.00	
Aroclor-1248	ND	1.0	0.20	1.00	
Aroclor-1254	ND	1.0	0.23	1.00	
Aroclor-1260	ND	1.0	0.26	1.00	
Aroclor-1262	ND	1.0	0.26	1.00	
Aroclor-1268	ND	1.0	0.21	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	50-135	
2,4,5,6-Tetrachloro-m-Xylene	79	50-135	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: 381038			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SS46-0.5 (381038-067)	**Sample**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:05**	**160803S04**
SS46-0.5 (381038-067)	**Matrix Spike**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 15:20**	**160803S04**
SS46-0.5 (381038-067)	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 15:37**	**160803S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	30.26	400.0	409.5	95	451.1	105	64-130	10	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: 381038			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-08-0063-4	**Sample**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 14:58**	**160803S02**
16-08-0063-4	**Matrix Spike**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 13:40**	**160803S02**
16-08-0063-4	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 13:56**	**160803S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	325.1	81	326.7	82	64-130	1	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: 381038			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SS46-0.5 (381038-067)	**Sample**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 21:05**	**160803S03**
SS46-0.5 (381038-067)	**Matrix Spike**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 14:46**	**160803S03**
SS46-0.5 (381038-067)	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 15:03**	**160803S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	387.6	97	338.8	85	64-130	13	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: 381038			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-08-0063-4	**Sample**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 14:58**	**160803S01**
16-08-0063-4	**Matrix Spike**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 13:10**	**160803S01**
16-08-0063-4	**Matrix Spike Duplicate**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 13:25**	**160803S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	349.3	87	344.7	86	64-130	1	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: 381038			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
COMP10 (381038-165)	**Sample**	**Solid**	**GC 44**	**08/03/16**	**08/04/16 11:10**	**160803S07**
COMP10 (381038-165)	**Matrix Spike**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 20:07**	**160803S07**
COMP10 (381038-165)	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 20:21**	**160803S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	19.80	79	21.42	86	50-135	8	0-25	
Alpha-BHC	ND	25.00	19.92	80	21.72	87	50-135	9	0-25	
Beta-BHC	ND	25.00	18.44	74	19.57	78	50-135	6	0-25	
4,4'-DDD	ND	25.00	22.18	89	23.33	93	50-135	5	0-25	
4,4'-DDE	ND	25.00	22.15	89	23.86	95	50-135	7	0-25	
4,4'-DDT	ND	25.00	18.92	76	20.70	83	50-135	9	0-25	
Delta-BHC	ND	25.00	20.50	82	21.88	88	50-135	7	0-25	
Dieldrin	ND	25.00	19.47	78	20.95	84	50-135	7	0-25	
Endosulfan I	ND	25.00	17.41	70	18.66	75	50-135	7	0-25	
Endosulfan II	ND	25.00	19.07	76	20.58	82	50-135	8	0-25	
Endosulfan Sulfate	ND	25.00	19.12	76	19.88	80	50-135	4	0-25	
Endrin	ND	25.00	20.90	84	22.48	90	50-135	7	0-25	
Endrin Aldehyde	ND	25.00	18.60	74	20.02	80	50-135	7	0-25	
Gamma-BHC	ND	25.00	20.19	81	21.86	87	50-135	8	0-25	
Heptachlor	ND	25.00	20.82	83	22.11	88	50-135	6	0-25	
Heptachlor Epoxide	ND	25.00	18.65	75	19.53	78	50-135	5	0-25	
Methoxychlor	ND	25.00	19.24	77	21.28	85	50-135	10	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
Project: 381038			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SS41-0.5 (381038-050)	**Sample**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 10:01**	**160803S08**
SS41-0.5 (381038-050)	**Matrix Spike**	**Solid**	**GC 66**	**08/03/16**	**08/03/16 23:53**	**160803S08**
SS41-0.5 (381038-050)	**Matrix Spike Duplicate**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 00:11**	**160803S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	96.00	96	96.00	96	50-135	0	0-20	
Aroclor-1260	ND	100.0	84.00	84	81.00	81	50-135	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
Project: 381038			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SS100-0.5 (381038-149)	**Sample**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 13:36**	**160803S09**
SS100-0.5 (381038-149)	**Matrix Spike**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 01:05**	**160803S09**
SS100-0.5 (381038-149)	**Matrix Spike Duplicate**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 01:23**	**160803S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	97.00	97	97.50	98	50-135	1	0-20	
Aroclor-1260	ND	100.0	91.00	91	92.00	92	50-135	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
Project: 381038			Page 1 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-278-1257	**LCS**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 16:43**	**160803B06**
099-15-278-1257	**LCSD**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 17:00**	**160803B06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	2313	116	2261	113	75-117	2	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
Project: 381038			Page 2 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-304-1477	**LCS**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 16:09**	**160803B05**
099-15-304-1477	**LCSD**	**Aqueous**	**GC 45**	**08/03/16**	**08/03/16 16:26**	**160803B05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1960	98	2007	100	75-117	2	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: 381038			Page 3 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1921	**LCS**	**Solid**	**GC 47**	**08/01/16**	**08/03/16 14:28**	**160803B04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	460.4	115	75-123	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: 381038			Page 4 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1920	**LCS**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 12:54**	**160803B02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	345.1	86	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: 381038			Page 5 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-2578	**LCS**	**Solid**	**GC 47**	**08/03/16**	**08/03/16 14:11**	**160803B03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	397.1	99	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: 381038			Page 6 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-2577	**LCS**	**Solid**	**GC 48**	**08/03/16**	**08/03/16 12:39**	**160803B01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	339.0	85	75-123	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: 381038			Page 7 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2489	**LCS**	**Solid**	**GC 44**	**08/03/16**	**08/03/16 20:35**	**160803L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	22.39	90	50-135	36-149	
Alpha-BHC	25.00	23.01	92	50-135	36-149	
Beta-BHC	25.00	20.56	82	50-135	36-149	
4,4'-DDD	25.00	23.27	93	50-135	36-149	
4,4'-DDE	25.00	24.42	98	50-135	36-149	
4,4'-DDT	25.00	20.56	82	50-135	36-149	
Delta-BHC	25.00	23.18	93	50-135	36-149	
Dieldrin	25.00	21.86	87	50-135	36-149	
Endosulfan I	25.00	20.02	80	50-135	36-149	
Endosulfan II	25.00	21.90	88	50-135	36-149	
Endosulfan Sulfate	25.00	20.38	82	50-135	36-149	
Endrin	25.00	23.22	93	50-135	36-149	
Endrin Aldehyde	25.00	20.60	82	50-135	36-149	
Gamma-BHC	25.00	24.12	96	50-135	36-149	
Heptachlor	25.00	23.33	93	50-135	36-149	
Heptachlor Epoxide	25.00	21.64	87	50-135	36-149	
Methoxychlor	25.00	20.74	83	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8081A
Project: 381038			Page 8 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-895	**LCS**	**Aqueous**	**GC 41**	**08/03/16**	**08/03/16 15:51**	**160803L04**
099-12-529-895	**LCSD**	**Aqueous**	**GC 41**	**08/03/16**	**08/03/16 16:06**	**160803L04**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4655	93	0.4602	92	50-135	36-149	1	0-25	
Gamma-BHC	0.5000	0.4741	95	0.4680	94	50-135	36-149	1	0-25	
Beta-BHC	0.5000	0.4406	88	0.4334	87	50-135	36-149	2	0-25	
Heptachlor	0.5000	0.4825	96	0.4750	95	50-135	36-149	2	0-25	
Delta-BHC	0.5000	0.4856	97	0.4774	95	50-135	36-149	2	0-25	
Aldrin	0.5000	0.4593	92	0.4547	91	50-135	36-149	1	0-25	
Heptachlor Epoxide	0.5000	0.4650	93	0.4572	91	50-135	36-149	2	0-25	
Endosulfan I	0.5000	0.4764	95	0.4690	94	50-135	36-149	2	0-25	
Dieldrin	0.5000	0.4827	97	0.4739	95	50-135	36-149	2	0-25	
4,4'-DDE	0.5000	0.4701	94	0.4608	92	50-135	36-149	2	0-25	
Endrin	0.5000	0.4633	93	0.4517	90	50-135	36-149	3	0-25	
Endrin Aldehyde	0.5000	0.4851	97	0.4782	96	50-135	36-149	1	0-25	
4,4'-DDD	0.5000	0.4740	95	0.4650	93	50-135	36-149	2	0-25	
Endosulfan II	0.5000	0.4931	99	0.4828	97	50-135	36-149	2	0-25	
4,4'-DDT	0.5000	0.4886	98	0.4758	95	50-135	36-149	3	0-25	
Endosulfan Sulfate	0.5000	0.4576	92	0.4477	90	50-135	36-149	2	0-25	
Methoxychlor	0.5000	0.4693	94	0.4536	91	50-135	36-149	3	0-25	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
Project: 381038			Page 9 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-3852	**LCS**	**Solid**	**GC 66**	**08/03/16**	**08/03/16 23:18**	**160803L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	97.00	97	50-135	
Aroclor-1260	100.0	81.50	82	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3545
		Method:	EPA 8082
Project: 381038			Page 10 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-3853	**LCS**	**Solid**	**GC 66**	**08/03/16**	**08/04/16 00:29**	**160803L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	96.50	96	50-135	
Aroclor-1260	100.0	84.00	84	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Enthalpy Analytical, Inc.		Date Received:	08/02/16
806 North Batavia		Work Order:	16-08-0151
Orange, CA 92868-1242		Preparation:	EPA 3510C
		Method:	EPA 8082
Project: 381038			Page 11 of 11

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1184	**LCS**	**Aqueous**	**GC 66**	**08/03/16**	**08/03/16 21:48**	**160803L05**
099-12-533-1184	**LCSD**	**Aqueous**	**GC 66**	**08/03/16**	**08/03/16 22:06**	**160803L05**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.750	88	1.870	94	50-135	7	0-25	
Aroclor-1260	2.000	1.460	73	1.530	76	50-135	5	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-08-0151 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Enthalpy Analytical
Formerly Associated Labs
1 Park Plaza, Suite 1000
Irvine, CA 92614
Tel: 714.771.6900 Fax: 714.538.1209
info-sc@enthalpy.com

16-08-0151

MONTROSE ENVIRONMENTAL

Project: 381038 **Due:** ~~08/03/16~~ LW 08/04/16
PM: Ranjit Clarke
Email: ranjit.clarke@enthalpy.com
CC: incomingreports@enthalpy.com

Require: ☐ EDD ☐ EDF ☐ EDT

Report To: ☒ MDL

Subcontract Laboratory:

Eurofins CalScience - Sub
7440 Lincoln Way
Garden Grove, CA 92841

ATTN: Xuan Dang
PO# 381038

Note: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

	Matrix	Sampled	Sample ID	Analysis	Comment
1	Solid	08/02/16 07:35	SS3-0.5 (381038-007)	8081 Pesticides	
	Solid	08/02/16 07:31	SS4-0.5 (381038-010)	8015B EPH Diesel/Motor Oil	
2	Solid	08/02/16 07:31	SS4-0.5 (381038-010)	8081 Pesticides	
	Solid	08/02/16 07:31	SS4-0.5 (381038-010)	8082 PCBs	
3	Solid	08/02/16 13:41	SS9-0.5 (381038-013)	8081 Pesticides	
4	Solid	08/02/16 07:44	SS24-0.5 (381038-022)	8081 Pesticides	
	Solid	08/02/16 07:42	SS32-0.5 (381038-028)	8015B EPH Diesel/Motor Oil	
5	Solid	08/02/16 07:42	SS32-0.5 (381038-028)	8081 Pesticides	
	Solid	08/02/16 07:42	SS32-0.5 (381038-028)	8082 PCBs	
	Solid	08/02/16 10:20	SS35-0.5 (381038-031)	8015B EPH Diesel/Motor Oil	
6	Solid	08/02/16 10:20	SS35-0.5 (381038-031)	8082 PCBs	
	Solid	08/02/16 09:30	SS36-0.5 (381038-034)	8015B EPH Diesel/Motor Oil	
7	Solid	08/02/16 09:30	SS36-0.5 (381038-034)	8082 PCBs	
	Solid	08/02/16 09:33	SS37-0.5 (381038-037)	8015B EPH Diesel/Motor Oil	
8	Solid	08/02/16 09:33	SS37-0.5 (381038-037)	8082 PCBs	
	Solid	08/02/16 09:34	SS37-0.5 DUP (381038-038)	8015B EPH Diesel/Motor Oil	
9	Solid	08/02/16 09:34	SS37-0.5 DUP (381038-038)	8082 PCBs	
	Solid	08/02/16 10:12	SS38-0.5 (381038-041)	8015B EPH Diesel/Motor Oil	
10	Solid	08/02/16 10:12	SS38-0.5 (381038-041)	8082 PCBs	
	Solid	08/02/16 10:01	SS39-0.5 (381038-044)	8015B EPH Diesel/Motor Oil	
11	Solid	08/02/16 10:01	SS39-0.5 (381038-044)	8082 PCBs	
	Solid	08/02/16 10:34	SS40-0.5 (381038-047)	8015B EPH Diesel/Motor Oil	
12	Solid	08/02/16 10:34	SS40-0.5 (381038-047)	8082 PCBs	
	Solid	08/02/16 10:50	SS41-0.5 (381038-050)	8015B EPH Diesel/Motor Oil	
13	Solid	08/02/16 10:50	SS41-0.5 (381038-050)	8082 PCBs	
	Solid	08/02/16 10:41	SS42-0.5 (381038-053)	8015B EPH Diesel/Motor Oil	
14	Solid	08/02/16 10:41	SS42-0.5 (381038-053)	8082 PCBs	
	Solid	08/02/16 10:42	SS43-0.5 (381038-056)	8015B EPH Diesel/Motor Oil	
15	Solid	08/02/16 10:42	SS43-0.5 (381038-056)	8082 PCBs	
	Solid	08/02/16 10:43	SS43-0.5 DUP (381038-057)	8015B EPH Diesel/Motor Oil	
14	Solid	08/02/16 10:43	SS43-0.5 DUP (381038-057)	8082 PCBs	
	Solid	08/02/16 09:57	SS44-0.5 (381038-060)	8015B EPH Diesel/Motor Oil	
17	Solid	08/02/16 09:57	SS44-0.5 (381038-060)	8082 PCBs	
	Solid	08/02/16 10:13	SS45-0.5 (381038-063)	8015B EPH Diesel/Motor Oil	
18	Solid	08/02/16 10:13	SS45-0.5 (381038-063)	8082 PCBs	
	Solid	08/02/16 10:28	SS46-0.5 (381038-067)	8015B EPH Diesel/Motor Oil	
19	Solid	08/02/16 10:28	SS46-0.5 (381038-067)	8082 PCBs	
	Solid	08/02/16 11:12	SS47-0.5 (381038-071)	8015B EPH Diesel/Motor Oil	
20	Solid	08/02/16 11:12	SS47-0.5 (381038-071)	8082 PCBs	
	Solid	08/02/16 11:14	SS48-0.5 (381038-074)	8015B EPH Diesel/Motor Oil	
21	Solid	08/02/16 11:14	SS48-0.5 (381038-074)	8082 PCBs	
	Solid	08/02/16 11:20	SS49-0.5 (381038-077)	8015B EPH Diesel/Motor Oil	
22	Solid	08/02/16 11:20	SS49-0.5 (381038-077)	8082 PCBs	
23	Solid	08/02/16 11:05	SS50-0.5 (381038-080)	8015B EPH Diesel/Motor Oil	

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	Matrix	Sampled	Sample ID	Analysis	Comment
23	Solid	08/02/16 11:05	SS50-0.5 (381038-080)	8082 PCBs	
24	Solid	08/02/16 13:16	SS53-0.5 (381038-083)	8081 Pesticides	
25	Solid	08/02/16 09:17	SS91-0.5 (381038-128)	8081 Pesticides	
	Solid	08/02/16 09:09	SS97-0.5 (381038-143)	8015B EPH Diesel/Motor Oil	
26	Solid	08/02/16 09:09	SS97-0.5 (381038-143)	8081 Pesticides	
	Solid	08/02/16 09:09	SS97-0.5 (381038-143)	8082 PCBs	
	Solid	08/02/16 09:15	SS100-0.5 (381038-149)	8015B EPH Diesel/Motor Oil	
27	Solid	08/02/16 09:15	SS100-0.5 (381038-149)	8081 Pesticides	
	Solid	08/02/16 09:15	SS100-0.5 (381038-149)	8082 PCBs	
	Water	08/02/16 00:00	EQBL0802-1 (381038-162)	8015B EPH Diesel/Motor Oil	
28	Water	08/02/16 00:00	EQBL0802-1 (381038-162)	8081 Pesticides	
	Water	08/02/16 00:00	EQBL0802-2 (381038-163)	8015B EPH Diesel/Motor Oil	
29	Water	08/02/16 00:00	EQBL0802-2 (381038-163)	8081 Pesticides	
	Water	08/02/16 00:00	EQBL0802-2 (381038-163)	8082 PCBs	
30	Solid	08/02/16 00:00	COMP9 (381038-164)	8081 Pesticides	
31	Solid	08/02/16 00:00	COMP10 (381038-165)	8081 Pesticides	
32	Solid	08/02/16 00:00	COMP11 (381038-166)	8081 Pesticides	
33	Solid	08/02/16 00:00	COMP12 (381038-167)	8081 Pesticides	
34	Solid	08/02/16 00:00	COMP11 DUP (381038-168)	8081 Pesticides	

Note:

Relinquished By	Received By:
Christopher Oh	Dannyle ECI
Date/Time 8/2/16 1842	Date/Time 8/2/16 18:42
Date/Time	Date/Time

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WORK ORDER NUMBER: 16-08- 0751

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EA, Inc.

DATE: 08 / 02 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 4.6 °C (w/ CF): 4.6 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 659

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 659
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1017

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and in good condition	☐	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: **(Trip Blank Lot Number: _____)**

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☑ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☑ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: 659

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WORK ORDER NUMBER: 16-08- 0151

SAMPLE ANOMALY REPORT

DATE: 08 / 02 / 2016

SAMPLES, CONTAINERS, AND LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☑ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☐ Sampling date and/or time
  - ☐ Number of container(s)
  - ☑ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Comments

(-28) Received 3 containers instead of 2.
3x1Liter Amber glass bottles
requested analysis per label:
(8081), (8015), (8082)

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments:

Reported by: 1017

Reviewed by: 659

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

Return to Contents

Xuan Dang

From: Ranjit Clarke <Ranjit.Clarke@enthalpy.com>
Sent: Tuesday, August 02, 2016 10:31 PM
To: Xuan Dang
Subject: RE: 16-08-0151

Importance: High

Yes. Please add PCBs to sample -28.

Thanks,

Ranjit

Ranjit Clarke
Senior Project Manager
O: 949-207-1475 / M: 657-274-9864 / F: 714-538-1209
Ranjit.Clarke@enthalpy.com

From: Xuan Dang [mailto:XuanDang@eurofinsUS.com]
Sent: Tuesday, August 02, 2016 10:06 PM
To: Ranjit Clarke <Ranjit.Clarke@enthalpy.com>
Subject: 16-08-0151

Hi Ranjit,
#28 has an extra 1L bottle but only 8081 and 8015 requested on the COC. Do you want to add 8082 as well?
Please advise as soon as you can.

Thank you.
Xuan

Sent from my iPhone

Begin forwarded message:

> **From:** <noreply@eurofinsUS.com>
> **Date:** August 2, 2016 at 9:30:06 PM PDT
> **To:** <XuanDang@eurofinsUS.com>, <NoelCruise@EurofinsUS.com>
> **Subject: ***COC*****
>
> It is just information. Please don't reply this e-mail.

CONFIDENTIALITY NOTICE: The contents of this email message and any attachments are intended solely for the addressee(s) and may contain confidential, proprietary and/or privileged information and may be legally protected from disclosure. If you are not the intended recipient of this message or their agent, or if this message has been addressed to you in error, please immediately alert the sender by reply email and then delete this message and any attachments and the reply from your system. If

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Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	381162
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	09/09/2016
		Date Received:	08/04/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

Supplement 3 - Some sampling times are not lsted on the COC. For these samples, the times were taken from the sample jars.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
381162-044	SS95B-1.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:40	**Site:**			
Sample #:	**381162-044**	**Client Sample #:**	SS95B-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1170681		
Arsenic	**4.31 J**	20	0.4	6	mg/Kg	09/08/16	09/09/16	KLN	J

QCBatchID:	QC1170681	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	09/08/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1170681MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170681LCS1											
Arsenic	50		50.8		mg/Kg	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170681MS1, QC1170681MSD1												**Source: 381162-044**
Arsenic	4.31	50	50	41.7	40.3	mg/Kg	75	72	3.4	75-125	20	M

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 1 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS22A-0.5	08/04/16	0710	Soil	1 Jar	None		X								
2	SS22A - 1.5	↓	0711	↓	↓	↓										Hold & Archive
3	SS22C - 0.5	↓	0710	↓	↓	↓		X								
4	SS 22C - 1.5	↓	0712	↓	↓	↓										Hold & Archive
5	SS 22B -0.5	↓	0715	↓	↓	↓		X								
6	SS21C-0.5	↓	0722	↓	↓	↓		X								
7	SS21C-1.5	↓	0724	↓	↓	↓										Hold & Archive
8	SS21C-2.5	↓	0726	↓	↓	↓										Hold & Archive
9	SS21A -0.5	↓	0726	↓	↓	↓		X								
10	SS21A -1.5	↓	0727	↓	↓	↓										

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASCE	ALTA	08/04/16 14:20
1 Received By:	[illegible]	Dennis Deming	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	[illegible]	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	Enthalpy	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS21A-2.5	08/04/16		Soil	1 Jar	None										Hold & Archive
2	SS21B-0.5	↓		↓	↓	↓		X								
3	SS21B-0.5DUP							X								
4	SS21B-1.5															Hold & Archive
5	SS21B-2.5															Hold & Archive
6	SS32C-0.5							X								
7	SS32C-1.5															Hold & Archive
8	SS32C-2.5															Hold & Archive
9	SS32A-0.5							X								
10	SS32A-1.5	↓		↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASCE	ALTA	08/04/16 14:20
1 Received By:	[signature]	Daining Dennis	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Daining	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongliu Cao	"	8/4/16 15:47
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS32A-2.5	08/04/16	0747	Soil	1 Jar	None										Hold & Archive
2	~~SS32~~ EF SS103C-0.5	↓	0800	↓	↓	↓		X								
3	SS103C-1.5		0805													Hold & Archive
4	SS103C-2.5		0806													Hold & Archive
5	SS103A-0.5		0807					X								
6	SS103A-1.5		0802													Hold & Archive
7	SS103A-2.5		0803													Hold & Archive
8	SS103B-0.5		0808					X								
9	SS103B-1.5		0810													Hold & Archive
10	SS103B-2.5	↓	0811	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	080416 14:20
1 Received By:	[signature]	Dennis Dominguez	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Dominguez	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hoanling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS96A-0.5	08/04/16	0820	Soil	1 Jar	None		X								
2	SS96A-1.5	↓	0822	↓	↓	↓										Hold & Archive
3	SS96A-2.5		0823													Hold & Archive
4	SS96B-0.5		0824					X								
5	SS96B-1.5		0825													Hold & Archive
6	SS96B-2.5		0826													Hold & Archive
7	SS96C-0.5		0819					X								
8	SS96C-1.5		0821													Hold & Archive
9	SS96C-2.5		0822													Hold & Archive
10	SS95A-0.5	↓	0832	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 1420
1 Received By:	[illegible]	Dennis Downing	Enthalpy	8/4/16 1420
2 Relinquished By:	[illegible]	Dennis Downing	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 15:47
3 Relinquished By:				
3 Received By:				

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ENTHALPY analytical, inc.

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Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS95A-1.5	08/04/16	0835	Soil	1 Jar	None										Hold & Archive
2	SS95A-2.5	↓	0837	↓	↓	↓										Hold & Archive
3	SS95B-0.5		0839					X								
4	SS95B-1.5		0840													Hold & Archive
5	SS95B-2.5		0841													Hold & Archive
6	SS95C-0.5		0832					X								
7	SS95C-1.5		0833													Hold & Archive
8	SS95C-2.5		0835													Hold & Archive
9	SS101A-0.5		0859				X	X								
10	SS101A-1.5	↓	0900	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 14:28
1 Received By:	[illegible]	Dennis Deining	Enthalpy	8/4/16 14:30
2 Relinquished By:	[illegible]	Dennis Deining	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 15:51
3 Relinquished By:				
3 Received By:				

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ENTHALPY analytical, inc.

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS101A-2.5	08/04/16	0901	Soil	1 JAR	None										Hold & Archive
2	SS101B-0.5	↓	0855	↓	↓	↓	X	X								
3	SS101B-1.5	↓	0857	↓	↓	↓										Hold & Archive
4	SS101B-2.5	↓	0859	↓	↓	↓										Hold & Archive
5	SS101C-0.5	↓	0850	↓	↓	↓	X	X								
6	SS101C-1.5	↓	0851	↓	↓	↓										Hold & Archive
7	SS101C-2.5	↓	0853	↓	↓	↓										Hold & Archive
8	SS102A-0.5	↓	0910	↓	↓	↓		X								
9	SS102A-1.5	↓	0912	↓	↓	↓										Hold & Archive
10	SS102A-2.5	↓	0913	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
[1] Received By:	[signature]	Dennis Downing	Enthalpy	8/4/16 14:20
[2] Relinquished By:	[signature]	Dennis Downing	Enthalpy	8/4/16 15:47
[2] Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
[3] Relinquished By:				
[3] Received By:				

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ENTHALPY analytical, inc.

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS102B-0.5	08/04/16	0908	Soil	1 JAR	NONE		X								
2	SS102B-1.5	↓	0910	↓	↓	↓										Hold & Archive
3	SS102B-2.5		0912													Hold & Archive
4	SS102C-0.5		0914					X								
5	SS102C-0.5 DUP		0915					X								
6	SS102C-1.5		0916													Hold & Archive
7	SS102C-2.5		0917													Hold & Archive
8	SS1A-0.5		0925					X								
9	SS1A-1.5		0926													Hold & Archive
10	SS1A-2.5	↓	0927	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[signature]	[illegible]	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	[illegible]	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 8 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS1C-0.5	08/04/16	0929	Soil	1 JAR	None		X								
2	SS1C-0.5DUP	↓	0930	↓	↓	↓		X								
3	SS1C-1.5		0931													Hold & Archive
4	SS1C-2.5		0932													Hold & Archive
5	SS2A-0.5		0939					X								
6	SS2A-1.5		0940													Hold & Archive
7	SS2A-2.5		0942													Hold & Archive
8	SS2B-0.5		0944					X								
9	SS2B-1.5		0946													Hold & Archive
10	SS2B-2.5	↓	0948	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/2016 14:20
1 Received By:	[illegible]	Dennis Dorong	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	Dennis Dorong	Enthalpy	8/4/16 15:47
2 Received By:	[illegible] Cao	Hongting Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 9 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS2C-0.5	08/04/16	0946	Soil	1 JAR	None		X								
2	SS2C-1.5	↓	0947	↓	↓	↓										Hold & Archive
3	SS2C-2.5		0948													Hold & Archive
4	SS98B-0.5		1013					X								
5	SS98B-1.5		1014													Hold & Archive
6	SS98B-2.5		1017													Hold & Archive
7	SS98C-0.5		1020					X								
8	SS98C-1.5		1022													Hold & Archive
9	SS98C-2.5		1024													Hold & Archive
10	SS92A-0.5	↓	1049	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	8/4/16 14:20
1 Received By:	[signature]	Dennis Dorney	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Dorney	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 10 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS92A-1.5	08/04/16		Soil	1 JAR	None											Hold & Archive
2	SS92A-2.5	↓		↓	↓	↓											Hold & Archive
3	SS92B-0.5							X									
4	SS92B-0.5 DUP							X									
5	SS92B-1.5																Hold & Archive
6	SS92B-2.5																Hold & Archive
7	SS92C-0.5							X									
8	SS92C-1.5																Hold & Archive
9	SS92C-2.5																Hold & Archive
10	SS93A-0.5	↓		↓	↓	↓		X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[signature]	Dennis Downey	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Downey	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 11 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS93A-1.5	08/04/16	1101	Soil	1 JAR	None										Hold & Archive
2	SS93A-2.5	↓	1105	↓	↓	↓										Hold & Archive
3	SS93B-0.5		1110					X								
4	SS93B-1.5		1112													Hold & Archive
5	SS93B-2.5		1114													Hold & Archive
6	SS93C-0.5		1116					X								
7	SS93C-1.5		1118													Hold & Archive
8	SS93C-2.5		1119													Hold & Archive
9	SS38A-0.5		1138					X								
10	SS38A-0.5DUP	↓	1138	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/2016 14:20
1 Received By:	[signature]	Dennis Dorsey	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Dorsey	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 12 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS38A-1.5	08/04/16		Soil	1 JAR	None										Hold & Archive
2	SS38A-2.5	↓		↓	↓	↓										Hold & Archive
3	SS38B-0.5							X								
4	SS38B-1.5															Hold & Archive
5	SS38B-2.5															Hold & Archive
6	SS38C-0.5							X								
7	SS38C-1.5															Hold & Archive
8	SS68A-0.5															Hold & Archive
9	SS68A-1.5							X								
10	SS68A-2.5	↓		↓	↓	↓										

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[illegible]	Dennis Dorsey	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	Dennis Dorsey	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 1535
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 381162	Standard:		4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 13 of	2 Day:		1 Day:	X	Same Day:	
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS68B-0.5	08/04/16		Soil	1 JAR	None		X	
2	SS68B-1.5								Hold & Archive
3	SS68B-2.5								Hold & Archive
4	SS68C-0.5							X	
5	SS68C-1.5								Hold & Archive
6	SS68C-2.5								Hold & Archive
7	SS55A-0.5						X		
8	SS55A-1.5								Hold & Archive
9	SS55A-2.5								Hold & Archive
10	SS55B-0.5						X		

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[signature]	Dennis Deming	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Deming	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hoagling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 14 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS55B-1.5	08/04/16	1345	Soil	1 JAR	None											Hold & Archive
2	SS55B-2.5	↓	1347	↓	↓	↓											Hold & Archive
3	SS55C-0.5		1338				X										
4	SS55C-1.5		1341														Hold & Archive
5	SS55C-2.5		1343	↓	↓	↓											Hold & Archive
6	EQBL0804-1		1400	H_2O	1 Bottle	None	X	X									
7	EQBL0804-2		1400	↓	↓	↓	X	X									
8																	
9																	
10		↓															

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:00
1 Received By:	[signature]	Dennis Dorsey	Enthalpy	8/04/16 - 14:20
2 Relinquished By:	[signature]	Dennis Dorsey	Enthalpy	8/4/16 - 15:47
2 Received By:	[signature]	HongLing Chen	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: AVTA ENVIRONMENTAL Project: JEFFERSON HIGH SCHOOL

Date Received: 8/04/16. Sampler's Signature Present: Yes (No)

Sample(s) received in a cooler? (Yes) How many? 3 No (skip section 2) Sample Temp (°C):

Sample Temp (°C) from each cooler: #1: 3.4°C #2: 3.3°C #3: 3.5°C #4:

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information:

Section 2

Was the cooler packed with: ✓ Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other

Cooler Temp (°C): #1: 2.4°C #2: 1.6°C #3: 3.2°C #4:

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?		✓	
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay department immediately.*			✓

Section 4

Explanations/Comments: RECEIVED (2) CONTAINERS FOR "SS93A-2.5". ID WAS CHANGED ON (1) OF THE CONTAINERS TO COINCIDE WITH SAMPLING TIMES.

Section 5

Was the Project Manager notified via email of discrepancies: (Yes) No N/A

Was the email sent to: R.C.

Project Manager's response:

Completed By: Date: 8/04/16.

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Thursday, September 08, 2016 10:15 AM
To: Ranjit Clarke
Subject: Thomas Jefferson High School

Hi Ranjit,

Please run the following two samples for arsenic by EPA Method 6020 on a Rush 24-hour basis.

- Sample SS88C-1.5 collected on 8/5/2016 from lab report 381187
- Sample SS95B-0.5 collected on 8/4/2016 from lab report 381162

Please let me know if you need any additional information.

Thanks,

Eric Fraske, PE
Project Manager/Senior III

ALTA ENVIRONMENTAL
Expertise to Reduce Your Environmental and Safety Risks

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	381162
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	09/13/2016
		Date Received:	08/04/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

Supplement 4 - Some sampling times are not lsted on the COC. For these samples, the times were taken from the sample jars.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
381162-043	SS95B-0.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:39	**Site:**			
Sample #:	**381162-043**	**Client Sample #:**	SS95B-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1170784		
Arsenic	**6.53 J**	50	1	15	mg/Kg	09/12/16	09/13/16	KLN	J

QCBatchID:	**QC1170784**	**Analyst:**	mhuo	**Method:**	EPA 6020
Matrix:	Solid	**Analyzed:**	09/13/2016	**Instrument:**	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1170784MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170784LCS1											
Arsenic	100		110		mg/Kg	110			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170784MS1, QC1170784MSD1												**Source: 381364-046**
Arsenic	9.79	100	100	107	98.5	mg/Kg	97	89	8.3	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 1 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS22A-0.5	08/04/16	0710	Soil	1 Jar	None		X								
2	SS22A - 1.5	↓	0711	↓	↓	↓										Hold & Archive
3	SS22C - 0.5	↓	0710	↓	↓	↓		X								
4	SS 22C - 1.5	↓	0712	↓	↓	↓										Hold & Archive
5	SS 22B -0.5	↓	0715	↓	↓	↓		X								
6	SS21C-0.5	↓	0722	↓	↓	↓		X								
7	SS21C-1.5	↓	0724	↓	↓	↓										Hold & Archive
8	SS21C-2.5	↓	0726	↓	↓	↓										Hold & Archive
9	SS21A -0.5	↓	0726	↓	↓	↓		X								
10	SS21A -1.5	↓	0727	↓	↓	↓										

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASCE	ALTA	08/04/16 14:20
1 Received By:	[illegible]	Dennis Deming	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	[illegible]	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	Enthalpy	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS21A-2.5	08/04/16		Soil	1 Jar	None										Hold & Archive
2	SS21B-0.5	↓		↓	↓	↓		X								
3	SS21B-0.5DUP							X								
4	SS21B-1.5															Hold & Archive
5	SS21B-2.5															Hold & Archive
6	SS32C-0.5							X								
7	SS32C-1.5															Hold & Archive
8	SS32C-2.5															Hold & Archive
9	SS32A-0.5							X								
10	SS32A-1.5	↓		↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASCE	ALTA	08/04/16 14:20
1 Received By:	[signature]	Daining Dennis	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Daining	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongliu Cao	"	8/4/16 15:47
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS32A-2.5	08/04/16	0747	Soil	1 Jar	None										Hold & Archive
2	~~SS32~~ EF SS103C-0.5	↓	0800	↓	↓	↓		X								
3	SS103C-1.5		0805													Hold & Archive
4	SS103C-2.5		0806													Hold & Archive
5	SS103A-0.5		0807					X								
6	SS103A-1.5		0802													Hold & Archive
7	SS103A-2.5		0803													Hold & Archive
8	SS103B-0.5		0808					X								
9	SS103B-1.5		0810													Hold & Archive
10	SS103B-2.5	↓	0811	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	080416 14:20
1 Received By:	[signature]	Dennis Dominguez	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Dominguez	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hoanling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS96A-0.5	08/04/16	0820	Soil	1 Jar	None		X								
2	SS96A-1.5	↓	0822	↓	↓	↓										Hold & Archive
3	SS96A-2.5		0823													Hold & Archive
4	SS96B-0.5		0824					X								
5	SS96B-1.5		0825													Hold & Archive
6	SS96B-2.5		0826													Hold & Archive
7	SS96C-0.5		0819					X								
8	SS96C-1.5		0821													Hold & Archive
9	SS96C-2.5		0822													Hold & Archive
10	SS95A-0.5	↓	0832	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 1420
1 Received By:	[illegible]	Dennis Downing	Enthalpy	8/4/16 1420
2 Relinquished By:	[illegible]	Dennis Downing	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 15:47
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS95A-1.5	08/04/16	0835	Soil	1 Jar	None										Hold & Archive
2	SS95A-2.5	↓	0837	↓	↓	↓										Hold & Archive
3	SS95B-0.5		0839					X								
4	SS95B-1.5		0840													Hold & Archive
5	SS95B-2.5		0841													Hold & Archive
6	SS95C-0.5		0832					X								
7	SS95C-1.5		0833													Hold & Archive
8	SS95C-2.5		0835													Hold & Archive
9	SS101A-0.5		0859				X	X								
10	SS101A-1.5	↓	0900	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 14:28
1 Received By:	[illegible]	Dennis Deining	Enthalpy	8/4/16 14:30
2 Relinquished By:	[illegible]	Dennis Deining	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 15:51
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 6 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS101A-2.5	08/04/16	0901	Soil	1 JAR	None										Hold & Archive
2	SS101B-0.5	↓	0855	↓	↓	↓	X	X								
3	SS101B-1.5	↓	0857	↓	↓	↓										Hold & Archive
4	SS101B-2.5	↓	0859	↓	↓	↓										Hold & Archive
5	SS101C-0.5	↓	0850	↓	↓	↓	X	X								
6	SS101C-1.5	↓	0851	↓	↓	↓										Hold & Archive
7	SS101C-2.5	↓	0853	↓	↓	↓										Hold & Archive
8	SS102A-0.5	↓	0910	↓	↓	↓		X								
9	SS102A-1.5	↓	0912	↓	↓	↓										Hold & Archive
10	SS102A-2.5	↓	0913	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
[1] Received By:	[signature]	Dennis Downing	Enthalpy	8/4/16 14:20
[2] Relinquished By:	[signature]	Dennis Downing	Enthalpy	8/4/16 15:47
[2] Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
[3] Relinquished By:				
[3] Received By:				

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806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 7 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS102B-0.5	08/04/16	0908	Soil	1 JAR	NONE		X								
2	SS102B-1.5	↓	0910	↓	↓	↓										Hold & Archive
3	SS102B-2.5		0912													Hold & Archive
4	SS102C-0.5		0914					X								
5	SS102C-0.5 DUP		0915					X								
6	SS102C-1.5		0916													Hold & Archive
7	SS102C-2.5		0917													Hold & Archive
8	SS1A-0.5		0925					X								
9	SS1A-1.5		0926													Hold & Archive
10	SS1A-2.5	↓	0927	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[signature]	[illegible]	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	[illegible]	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS1C-0.5	08/04/16	0929	Soil	1 JAR	None		X								
2	SS1C-0.5DUP	↓	0930	↓	↓	↓		X								
3	SS1C-1.5		0931													Hold & Archive
4	SS1C-2.5		0932													Hold & Archive
5	SS2A-0.5		0939					X								
6	SS2A-1.5		0940													Hold & Archive
7	SS2A-2.5		0942													Hold & Archive
8	SS2B-0.5		0944					X								
9	SS2B-1.5		0946													Hold & Archive
10	SS2B-2.5	↓	0948	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/2016 14:20
1 Received By:	[illegible]	Dennis Dorong	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	Dennis Dorong	Enthalpy	8/4/16 15:47
2 Received By:	[illegible] Cao	Hongting Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS2C-0.5	08/04/16	0946	Soil	1 JAR	None		X								
2	SS2C-1.5	↓	0947	↓	↓	↓										Hold & Archive
3	SS2C-2.5		0948													Hold & Archive
4	SS98B-0.5		1013					X								
5	SS98B-1.5		1014													Hold & Archive
6	SS98B-2.5		1017													Hold & Archive
7	SS98C-0.5		1020					X								
8	SS98C-1.5		1022													Hold & Archive
9	SS98C-2.5		1024													Hold & Archive
10	SS92A-0.5	↓	1049	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	8/4/16 14:20
1 Received By:	[signature]	Dennis Dorney	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Dorney	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 10 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS92A-1.5	08/04/16		Soil	1 JAR	None											Hold & Archive
2	SS92A-2.5	↓		↓	↓	↓											Hold & Archive
3	SS92B-0.5							X									
4	SS92B-0.5 DUP							X									
5	SS92B-1.5																Hold & Archive
6	SS92B-2.5																Hold & Archive
7	SS92C-0.5							X									
8	SS92C-1.5																Hold & Archive
9	SS92C-2.5																Hold & Archive
10	SS93A-0.5	↓		↓	↓	↓		X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[signature]	Dennis Downey	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Downey	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 11 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS93A-1.5	08/04/16	1101	Soil	1 JAR	None										Hold & Archive
2	SS93A-2.5	↓	1105	↓	↓	↓										Hold & Archive
3	SS93B-0.5		1110					X								
4	SS93B-1.5		1112													Hold & Archive
5	SS93B-2.5		1114													Hold & Archive
6	SS93C-0.5		1116					X								
7	SS93C-1.5		1118													Hold & Archive
8	SS93C-2.5		1119													Hold & Archive
9	SS38A-0.5		1138					X								
10	SS38A-0.5DUP	↓	1138	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/2016 14:20
1 Received By:	[signature]	Dennis Dorsey	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Dorsey	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 12 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS38A-1.5	08/04/16		Soil	1 JAR	None										Hold & Archive
2	SS38A-2.5	↓		↓	↓	↓										Hold & Archive
3	SS38B-0.5							X								
4	SS38B-1.5															Hold & Archive
5	SS38B-2.5															Hold & Archive
6	SS38C-0.5							X								
7	SS38C-1.5															Hold & Archive
8	SS68A-0.5															Hold & Archive
9	SS68A-1.5							X								
10	SS68A-2.5	↓		↓	↓	↓										

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[illegible]	Dennis Dorsey	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	Dennis Dorsey	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 1535
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 381162	Standard:		4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 13 of	2 Day:		1 Day:	X	Same Day:	
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS68B-0.5	08/04/16		Soil	1 JAR	None		X	
2	SS68B-1.5								Hold & Archive
3	SS68B-2.5								Hold & Archive
4	SS68C-0.5							X	
5	SS68C-1.5								Hold & Archive
6	SS68C-2.5								Hold & Archive
7	SS55A-0.5						X		
8	SS55A-1.5								Hold & Archive
9	SS55A-2.5								Hold & Archive
10	SS55B-0.5						X		

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[signature]	Dennis Deming	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Deming	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hoagling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 14 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS55B-1.5	08/04/16	1345	Soil	1 JAR	None											Hold & Archive
2	SS55B-2.5	↓	1347	↓	↓	↓											Hold & Archive
3	SS55C-0.5		1338				X										
4	SS55C-1.5		1341														Hold & Archive
5	SS55C-2.5		1343	↓	↓	↓											Hold & Archive
6	EQBL0804-1		1400	H_2O	1 Bottle	None	X	X									
7	EQBL0804-2		1400	↓	↓	↓	X	X									
8																	
9																	
10		↓															

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:00
1 Received By:	[signature]	Dennis Dorsey	Enthalpy	8/04/16 - 14:20
2 Relinquished By:	[signature]	Dennis Dorsey	Enthalpy	8/4/16 - 15:47
2 Received By:	[signature]	HongLing Chen	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: AVTA ENVIRONMENTAL Project: JEFFERSON HIGH SCHOOL

Date Received: 8/04/16. Sampler's Signature Present: Yes (No)

Sample(s) received in a cooler? (Yes) How many? 3 No (skip section 2) Sample Temp (°C):

Sample Temp (°C) from each cooler: #1: 3.4°C #2: 3.3°C #3: 3.5°C #4:

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information:

Section 2

Was the cooler packed with: ✓ Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other

Cooler Temp (°C): #1: 2.4°C #2: 1.6°C #3: 3.2°C #4:

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?		✓	
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay department immediately.*			✓

Section 4

Explanations/Comments: RECEIVED (2) CONTAINERS FOR "SS93A-2.5". ID WAS CHANGED ON (1) OF THE CONTAINERS TO COINCIDE WITH SAMPLING TIMES.

Section 5

Was the Project Manager notified via email of discrepancies: (Yes) No N/A

Was the email sent to: R.C.

Project Manager's response:

Completed By: Date: 8/04/16.

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Thursday, September 08, 2016 10:15 AM
To: Ranjit Clarke
Subject: Thomas Jefferson High School

Hi Ranjit,

Please run the following two samples for arsenic by EPA Method 6020 on a Rush 24-hour basis.

- Sample SS88C-1.5 collected on 8/5/2016 from lab report 381187
- Sample SS95B-0.5 collected on 8/4/2016 from lab report 381162

Please let me know if you need any additional information.

Thanks,

Eric Fraske, PE
Project Manager/Senior III

ALTA ENVIRONMENTAL
Expertise to Reduce Your Environmental and Safety Risks

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	381162
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	08/05/2016
		Date Received:	08/04/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

Some sampling times are not lsted on the COC. For these samples, the times were taken from the sample jars.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
381162-001	SS22A-0.5	381162-025	SS103A-0.5	381162-049	SS101A-0.5
381162-002	SS22A-1.5	381162-026	SS103A-1.5	381162-050	SS101A-1.5
381162-003	SS22C-0.5	381162-027	SS103A-2.5	381162-051	SS101A-2.5
381162-004	SS22C-1.5	381162-028	SS103B-0.5	381162-052	SS101B-0.5
381162-005	SS22B-0.5	381162-029	SS103B-1.5	381162-053	SS101B-1.5
381162-006	SS21C-0.5	381162-030	SS103B-2.5	381162-054	SS101B-2.5
381162-007	SS21C-1.5	381162-031	SS96A-0.5	381162-055	SS101C-0.5
381162-008	SS21C-2.5	381162-032	SS96A-1.5	381162-056	SS101C-1.5
381162-009	SS21A-0.5	381162-033	SS96A-2.5	381162-057	SS101C-2.5
381162-010	SS21A-1.5	381162-034	SS96B-0.5	381162-058	SS102A-0.5
381162-011	SS21A-2.5	381162-035	SS96B-1.5	381162-059	SS102A-1.5
381162-012	SS21B-0.5	381162-036	SS96B-2.5	381162-060	SS102A-2.5
381162-013	SS21B-0.5 DUP	381162-037	SS96C-0.5	381162-061	SS102B-0.5
381162-014	SS21B-1.5	381162-038	SS96C-1.5	381162-062	SS102B-1.5
381162-015	SS21B-2.5	381162-039	SS96C-2.5	381162-063	SS102B-2.5
381162-016	SS32C-0.5	381162-040	SS95A-0.5	381162-064	SS102C-0.5
381162-017	SS32C-1.5	381162-041	SS95A-1.5	381162-065	SS102C-0.5 DUP
381162-018	SS32C-2.5	381162-042	SS95A-2.5	381162-066	SS102C-1.5
381162-019	SS32A-0.5	381162-043	SS95B-0.5	381162-067	SS102C-2.5
381162-020	SS32A-1.5	381162-044	SS95B-1.5	381162-068	SS1A-0.5
381162-021	SS32A-2.5	381162-045	SS95B-2.5	381162-069	SS1A-1.5
381162-022	SS103C-0.5	381162-046	SS95C-0.5	381162-070	SS1A-2.5
381162-023	SS103C-1.5	381162-047	SS95C-1.5	381162-071	SS1C-0.5
381162-024	SS103C-2.5	381162-048	SS95C-2.5	381162-072	SS1C-0.5 DUP

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:10 **Site:**
Sample #: 381162-001 **Client Sample #:** SS22A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**68.8**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:11 **Site:**
Sample #: 381162-002 **Client Sample #:** SS22A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:10 **Site:**
Sample #: 381162-003 **Client Sample #:** SS22C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**59.7**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:12 **Site:**
Sample #: 381162-004 **Client Sample #:** SS22C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:15 **Site:**
Sample #: 381162-005 **Client Sample #:** SS22B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**47.1**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:22 **Site:**
Sample #: 381162-006 **Client Sample #:** SS21C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**131**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:24 **Site:**
Sample #: 381162-007 **Client Sample #:** SS21C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:26 **Site:**
Sample #: 381162-008 **Client Sample #:** SS21C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 07:26	Site:			
Sample #:	381162-009	Client Sample #:	SS21A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**14.7**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 07:27	Site:			
Sample #:	381162-010	Client Sample #:	SS21A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 07:28	Site:			
Sample #:	381162-011	Client Sample #:	SS21A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 07:28	Site:			
Sample #:	381162-012	Client Sample #:	SS21B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**17.0**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 07:29	Site:			
Sample #:	381162-013	Client Sample #:	SS21B-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**27.4**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 07:31	Site:			
Sample #:	381162-014	Client Sample #:	SS21B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 07:32	Site:			
Sample #:	381162-015	Client Sample #:	SS21B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 07:43	Site:			
Sample #:	381162-016	Client Sample #:	SS32C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**73.0**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:45 **Site:**
Sample #: 381162-017 **Client Sample #:** SS32C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:49 **Site:**
Sample #: 381162-018 **Client Sample #:** SS32C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:45 **Site:**
Sample #: 381162-019 **Client Sample #:** SS32A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**201**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:46 **Site:**
Sample #: 381162-020 **Client Sample #:** SS32A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 07:47 **Site:**
Sample #: 381162-021 **Client Sample #:** SS32A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:00 **Site:**
Sample #: 381162-022 **Client Sample #:** SS103C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**144**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:03 **Site:**
Sample #: 381162-023 **Client Sample #:** SS103C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:06 **Site:**
Sample #: 381162-024 **Client Sample #:** SS103C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:07 **Site:**
Sample #: 381162-025 **Client Sample #:** SS103A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**36.9**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:02 **Site:**
Sample #: 381162-026 **Client Sample #:** SS103A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:03 **Site:**
Sample #: 381162-027 **Client Sample #:** SS103A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:08 **Site:**
Sample #: 381162-028 **Client Sample #:** SS103B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**116**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:10 **Site:**
Sample #: 381162-029 **Client Sample #:** SS103B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:11 **Site:**
Sample #: 381162-030 **Client Sample #:** SS103B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:20 **Site:**
Sample #: 381162-031 **Client Sample #:** SS96A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169680		
Lead	**49.9**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:22 **Site:**
Sample #: 381162-032 **Client Sample #:** SS96A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:23	**Site:**			
Sample #:	**381162-033**	**Client Sample #:**	SS96A-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:24	**Site:**			
Sample #:	**381162-034**	**Client Sample #:**	SS96B-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169680
Lead	**46.1**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:25	**Site:**			
Sample #:	**381162-035**	**Client Sample #:**	SS96B-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:26	**Site:**			
Sample #:	**381162-036**	**Client Sample #:**	SS96B-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:19	**Site:**			
Sample #:	**381162-037**	**Client Sample #:**	SS96C-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169680
Lead	**602**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:21	**Site:**			
Sample #:	**381162-038**	**Client Sample #:**	SS96C-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:22	**Site:**			
Sample #:	**381162-039**	**Client Sample #:**	SS96C-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 08:32	**Site:**			
Sample #:	**381162-040**	**Client Sample #:**	SS95A-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169680
Lead	**132**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 08:35	Site:			
Sample #:	381162-041	Client Sample #:	SS95A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 08:37	Site:			
Sample #:	381162-042	Client Sample #:	SS95A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 08:39	Site:			
Sample #:	381162-043	Client Sample #:	SS95B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**58.4**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 08:40	Site:			
Sample #:	381162-044	Client Sample #:	SS95B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 08:41	Site:			
Sample #:	381162-045	Client Sample #:	SS95B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 08:32	Site:			
Sample #:	381162-046	Client Sample #:	SS95C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**59.5**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 08:33	Site:			
Sample #:	381162-047	Client Sample #:	SS95C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 08:35	Site:			
Sample #:	381162-048	Client Sample #:	SS95C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:59 **Site:**
Sample #: 381162-049 **Client Sample #:** SS101A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**27.5**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169705		
Arsenic	**10.6**	20	0.4	6	mg/Kg	08/04/16	08/05/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:00 **Site:**
Sample #: 381162-050 **Client Sample #:** SS101A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:01 **Site:**
Sample #: 381162-051 **Client Sample #:** SS101A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:55 **Site:**
Sample #: 381162-052 **Client Sample #:** SS101B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**5.99**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169705		
Arsenic	**17.6**	20	0.4	6	mg/Kg	08/04/16	08/05/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:57 **Site:**
Sample #: 381162-053 **Client Sample #:** SS101B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:59 **Site:**
Sample #: 381162-054 **Client Sample #:** SS101B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:50 **Site:**
Sample #: 381162-055 **Client Sample #:** SS101C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**0.71**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169705		
Arsenic	**3.30 J**	20	0.4	6	mg/Kg	08/04/16	08/05/16	MH	J

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:51 **Site:**
Sample #: 381162-056 **Client Sample #:** SS101C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 08:53 **Site:**
Sample #: 381162-057 **Client Sample #:** SS101C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:10 **Site:**
Sample #: 381162-058 **Client Sample #:** SS102A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**74.8**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:12 **Site:**
Sample #: 381162-059 **Client Sample #:** SS102A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:13 **Site:**
Sample #: 381162-060 **Client Sample #:** SS102A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:08 **Site:**
Sample #: 381162-061 **Client Sample #:** SS102B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**3.04**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:10 **Site:**
Sample #: 381162-062 **Client Sample #:** SS102B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:12 **Site:**
Sample #: 381162-063 **Client Sample #:** SS102B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:14 **Site:**
Sample #: 381162-064 **Client Sample #:** SS102C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**54.6**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:15 **Site:**
Sample #: 381162-065 **Client Sample #:** SS102C-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**22.1**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:16 **Site:**
Sample #: 381162-066 **Client Sample #:** SS102C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:17 **Site:**
Sample #: 381162-067 **Client Sample #:** SS102C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:25 **Site:**
Sample #: 381162-068 **Client Sample #:** SS1A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**169**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:26 **Site:**
Sample #: 381162-069 **Client Sample #:** SS1A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:27 **Site:**
Sample #: 381162-070 **Client Sample #:** SS1A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:29 **Site:**
Sample #: 381162-071 **Client Sample #:** SS1C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**70.0**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:30 **Site:**
Sample #: 381162-072 **Client Sample #:** SS1C-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**12.1**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:31 **Site:**
Sample #: 381162-073 **Client Sample #:** SS1C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:32 **Site:**
Sample #: 381162-074 **Client Sample #:** SS1C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:39 **Site:**
Sample #: 381162-075 **Client Sample #:** SS2A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**174**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:40 **Site:**
Sample #: 381162-076 **Client Sample #:** SS2A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:42 **Site:**
Sample #: 381162-077 **Client Sample #:** SS2A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:44 **Site:**
Sample #: 381162-078 **Client Sample #:** SS2B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**28.4**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/04/2016 09:46 **Site:**
Sample #: 381162-079 **Client Sample #:** SS2B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 09:48	Site:			
Sample #:	381162-080	Client Sample #:	SS2B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 09:46	Site:			
Sample #:	381162-081	Client Sample #:	SS2C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169688
Lead	**27.8**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 09:47	Site:			
Sample #:	381162-082	Client Sample #:	SS2C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 09:48	Site:			
Sample #:	381162-083	Client Sample #:	SS2C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:13	Site:			
Sample #:	381162-084	Client Sample #:	SS98B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169688
Lead	**27.8**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:14	Site:			
Sample #:	381162-085	Client Sample #:	SS98B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:17	Site:			
Sample #:	381162-086	Client Sample #:	SS98B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:20	Site:			
Sample #:	381162-087	Client Sample #:	SS98C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169688
Lead	**24.8**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:22	Site:			
Sample #:	381162-088	Client Sample #:	SS98C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:24	Site:			
Sample #:	381162-089	Client Sample #:	SS98C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:49	Site:			
Sample #:	381162-090	Client Sample #:	SS92A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**31.1**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:51	Site:			
Sample #:	381162-091	Client Sample #:	SS92A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:53	Site:			
Sample #:	381162-092	Client Sample #:	SS92A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:43	Site:			
Sample #:	381162-093	Client Sample #:	SS92B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**21.7**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:44	Site:			
Sample #:	381162-094	Client Sample #:	SS92B-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169688		
Lead	**23.4**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:45	Site:			
Sample #:	381162-095	Client Sample #:	SS92B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:47	Site:			
Sample #:	381162-096	Client Sample #:	SS92B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:59	Site:			
Sample #:	381162-097	Client Sample #:	SS92C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169691
Lead	**55.7**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:00	Site:			
Sample #:	381162-098	Client Sample #:	SS92C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:01	Site:			
Sample #:	381162-099	Client Sample #:	SS92C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 10:59	Site:			
Sample #:	381162-100	Client Sample #:	SS93A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169691
Lead	**204**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:01	Site:			
Sample #:	381162-101	Client Sample #:	SS93A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:05	Site:			
Sample #:	381162-102	Client Sample #:	SS93A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:10	Site:			
Sample #:	381162-103	Client Sample #:	SS93B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169691
Lead	**113**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:12	Site:			
Sample #:	381162-104	Client Sample #:	SS93B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:14	Site:			
Sample #:	381162-105	Client Sample #:	SS93B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:16	Site:			
Sample #:	381162-106	Client Sample #:	SS93C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169691		
Lead	**75.0**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:18	Site:			
Sample #:	381162-107	Client Sample #:	SS93C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:19	Site:			
Sample #:	381162-108	Client Sample #:	SS93C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:38	Site:			
Sample #:	381162-109	Client Sample #:	SS38A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169691		
Lead	**26.4**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:38	Site:			
Sample #:	381162-110	Client Sample #:	SS38A-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169691		
Lead	**28.8**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:39	Site:			
Sample #:	381162-111	Client Sample #:	SS38A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:40	Site:			
Sample #:	381162-112	Client Sample #:	SS38A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:44	Site:			
Sample #:	381162-113	Client Sample #:	SS38B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169691
Lead	**34.4**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:46	Site:			
Sample #:	381162-114	Client Sample #:	SS38B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:48	Site:			
Sample #:	381162-115	Client Sample #:	SS38B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:36	Site:			
Sample #:	381162-116	Client Sample #:	SS38C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169691
Lead	**71.7**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 11:38	Site:			
Sample #:	381162-117	Client Sample #:	SS38C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:24	Site:			
Sample #:	381162-118	Client Sample #:	SS68A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:25	Site:			
Sample #:	381162-119	Client Sample #:	SS68A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169691
Lead	**5.41**	1	0.32	0.5	mg/Kg	08/04/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:26	Site:			
Sample #:	381162-120	Client Sample #:	SS68A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:26	Site:			
Sample #:	381162-121	Client Sample #:	SS68B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169700
Lead	**81.5**	1	0.32	0.5	mg/Kg	08/05/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:29	Site:			
Sample #:	381162-122	Client Sample #:	SS68B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:30	Site:			
Sample #:	381162-123	Client Sample #:	SS68B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:22	Site:			
Sample #:	381162-124	Client Sample #:	SS68C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169700
Lead	**125**	1	0.32	0.5	mg/Kg	08/05/16	08/05/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:23	Site:			
Sample #:	381162-125	Client Sample #:	SS68C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:24	Site:			
Sample #:	381162-126	Client Sample #:	SS68C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:47	Site:			
Sample #:	381162-127	Client Sample #:	SS55A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169705
Arsenic	**2.28 J**	20	0.4	6	mg/Kg	08/04/16	08/05/16	MH	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:48	Site:			
Sample #:	381162-128	Client Sample #:	SS55A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:49	Site:			
Sample #:	381162-129	Client Sample #:	SS55A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:44	Site:			
Sample #:	381162-130	Client Sample #:	SS55B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169705		
Arsenic	**2.62 J**	20	0.4	6	mg/Kg	08/04/16	08/05/16	MH	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:45	Site:			
Sample #:	381162-131	Client Sample #:	SS55B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:47	Site:			
Sample #:	381162-132	Client Sample #:	SS55B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:38	Site:			
Sample #:	381162-133	Client Sample #:	SS55C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169705		
Arsenic	**12.8**	20	0.4	6	mg/Kg	08/04/16	08/05/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:41	Site:			
Sample #:	381162-134	Client Sample #:	SS55C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/04/2016 13:43	Site:			
Sample #:	381162-135	Client Sample #:	SS55C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 14:00	**Site:**			
Sample #:	**381162-136**	**Client Sample #:**	EQBL0804-1	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169683		
Lead	ND	1	0.004	0.005	mg/L	08/04/16	08/05/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169706		
Arsenic	ND	2	0.26	4	ug/L	08/04/16	08/05/16	MH	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/04/2016 14:00	**Site:**			
Sample #:	**381162-137**	**Client Sample #:**	EQBL0804-2	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169683		
Lead	ND	1	0.004	0.005	mg/L	08/04/16	08/05/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169706		
Arsenic	ND	2	0.26	4	ug/L	08/04/16	08/05/16	MH	

QCBatchID: QC1169680	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 08/05/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169680MB1					
Cadmium	ND	mg/Kg	0.21	0.5	
Lead	ND	mg/Kg	0.32	0.5	
Zinc	**6.88**	mg/Kg	0.28	5	B

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169680LCS1											
Cadmium	200		210		mg/Kg	105			80-120		
Lead	200		221		mg/Kg	111			80-120		
Zinc	200		209		mg/Kg	105			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169680MS1, QC1169680MSD1												**Source: 381162-001**
Cadmium	0.78	100	100	110	102	mg/Kg	109	101	7.5	75-125	20	
Lead	68.8	100	100	198	180	mg/Kg	129	111	9.5	75-125	20	M
Zinc	122	100	100	248	226	mg/Kg	126	104	9.3	75-125	20	M

QCBatchID:	QC1169683	Analyst:	jeannynguye	Method:	EPA 6010B
Matrix:	Water	Analyzed:	08/05/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169683MB1					
Lead	ND	mg/L	0.004	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169683LCS1											
Lead	2		2.01		mg/L	101			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169683MS1, QC1169683MSD1												**Source: 381162-137**
Lead	ND	1	1	1.05	1.04	mg/L	105	104	1.0	75-125	20	

QCBatchID:	QC1169688	Analyst:	jeannynguye	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/05/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169688MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169688LCS1											
Lead	200		218		mg/Kg	109			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169688MS1, QC1169688MSD1												**Source: 381162-043**
Lead	58.4	100	100	172	162	mg/Kg	114	104	6.0	75-125	20	

QCBatchID: QC1169691	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 08/05/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169691MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	**9.39**	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169691LCS1											
Antimony	200		216		mg/Kg	108			80-120		
Arsenic	200		194		mg/Kg	97			80-120		
Barium	200		193		mg/Kg	97			80-120		
Beryllium	200		193		mg/Kg	97			80-120		
Cadmium	200		196		mg/Kg	98			80-120		
Chromium	200		196		mg/Kg	98			80-120		
Cobalt	200		195		mg/Kg	98			80-120		
Copper	200		184		mg/Kg	92			80-120		
Lead	200		208		mg/Kg	104			80-120		
Molybdenum	200		208		mg/Kg	104			80-120		
Nickel	200		197		mg/Kg	99			80-120		
Selenium	200		184		mg/Kg	92			80-120		
Silver	200		174		mg/Kg	87			80-120		
Thallium	200		200		mg/Kg	100			80-120		
Vanadium	200		189		mg/Kg	95			80-120		
Zinc	200		194		mg/Kg	97			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169691MS1, QC1169691MSD1												**Source: 381162-100**
Antimony	ND	100	100	27.8	30.8	mg/Kg	29	32	10.2	75-125	20	M
Arsenic	12.7	100	100	110	118	mg/Kg	97	105	7.0	75-125	20	
Barium	72.5	100	100	172	180	mg/Kg	100	108	4.5	75-125	20	
Beryllium	ND	100	100	95.6	104	mg/Kg	97	105	8.4	75-125	20	
Cadmium	0.67	100	100	100	106	mg/Kg	99	105	5.8	75-125	20	
Chromium	16.6	100	100	112	118	mg/Kg	95	101	5.2	75-125	20	
Cobalt	6.24	100	100	103	109	mg/Kg	97	103	5.7	75-125	20	
Copper	22.2	100	100	120	125	mg/Kg	98	103	4.1	75-125	20	
Lead	204	100	100	218	236	mg/Kg	14	32	7.9	75-125	20	M

QCBatchID: QC1169691	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 08/05/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169691MS1, QC1169691MSD1											**Source:**	**381162-100**
Molybdenum	0.83	100	100	92.8	101	mg/Kg	92	100	8.5	75-125	20	
Nickel	9.81	100	100	111	121	mg/Kg	101	111	8.6	75-125	20	
Selenium	ND	100	100	91.2	100	mg/Kg	94	103	9.2	75-125	20	
Silver	ND	100	100	87.8	91.7	mg/Kg	90	94	3.6	75-125	20	
Thallium	ND	100	100	90.7	99.6	mg/Kg	93	102	9.4	75-125	20	
Vanadium	24.9	100	100	122	130	mg/Kg	97	105	6.3	75-125	20	
Zinc	207	100	100	276	285	mg/Kg	69	78	3.2	75-125	20	M

QCBatchID:	QC1169700	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/05/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169700MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169700LCS1											
Lead	200		196		mg/Kg	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169700MS1, QC1169700MSD1												**Source: 381162-121**
Lead	81.5	100	100	172	190	mg/Kg	91	109	9.9	75-125	20	

QCBatchID:	QC1169705	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	08/05/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169705MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169705LCS1											
Arsenic	50		55.2		mg/Kg	110			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169705MS1, QC1169705MSD1												**Source: 381162-049**
Arsenic	10.6	50	50	66.0	66.2	mg/Kg	111	111	0.3	75-125	20	

QCBatchID:	QC1169706	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Water	Analyzed:	08/05/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169706MB1					
Arsenic	ND	ug/L	0.13	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169706LCS1											
Arsenic	50		43.5		ug/L	87			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169706MS1, QC1169706MSD1												**Source: 381162-137**
Arsenic	ND	50	50	42.0	41.2	ug/L	84	82	1.9	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 1 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS22A-0.5	08/04/16	0710	Soil	1 Jar	None		X								
2	SS22A - 1.5	↓	0711	↓	↓	↓										Hold & Archive
3	SS22C - 0.5	↓	0710	↓	↓	↓		X								
4	SS 22C - 1.5	↓	0712	↓	↓	↓										Hold & Archive
5	SS 22B -0.5	↓	0715	↓	↓	↓		X								
6	SS21C-0.5	↓	0722	↓	↓	↓		X								
7	SS21C-1.5	↓	0724	↓	↓	↓										Hold & Archive
8	SS21C-2.5	↓	0726	↓	↓	↓										Hold & Archive
9	SS21A -0.5	↓	0726	↓	↓	↓		X								
10	SS21A -1.5	↓	0727	↓	↓	↓										

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASCE	ALTA	08/04/16 14:20
1 Received By:	[illegible]	Dennis Deming	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	[illegible]	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	Enthalpy	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 2 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS21A-2.5	08/04/16		Soil	1 Jar	None										Hold & Archive
2	SS21B-0.5	↓		↓	↓	↓		X								
3	SS21B-0.5DUP							X								
4	SS21B-1.5															Hold & Archive
5	SS21B-2.5															Hold & Archive
6	SS32C-0.5							X								
7	SS32C-1.5															Hold & Archive
8	SS32C-2.5															Hold & Archive
9	SS32A-0.5							X								
10	SS32A-1.5	↓		↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASCE	ALTA	08/04/16 14:20
1 Received By:	[signature]	Daining Dennis	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Daining	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongliu Cao	"	8/4/16 15:47
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 3 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS32A-2.5	08/04/16	0747	Soil	1 Jar	None										Hold & Archive
2	~~SS32~~ EF SS103C-0.5	↓	0800	↓	↓	↓		X								
3	SS103C-1.5		0805													Hold & Archive
4	SS103C-2.5		0806													Hold & Archive
5	SS103A-0.5		0807					X								
6	SS103A-1.5		0802													Hold & Archive
7	SS103A-2.5		0803													Hold & Archive
8	SS103B-0.5		0808					X								
9	SS103B-1.5		0810													Hold & Archive
10	SS103B-2.5	↓	0811	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	080416 14:20
1 Received By:	[signature]	Dennis Dominguez	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Dominguez	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hoanling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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Email:	eric.fraske@altaenviron.com	P.O. #:	
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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS96A-0.5	08/04/16	0820	Soil	1 Jar	None		X								
2	SS96A-1.5	↓	0822	↓	↓	↓										Hold & Archive
3	SS96A-2.5		0823													Hold & Archive
4	SS96B-0.5		0824					X								
5	SS96B-1.5		0825													Hold & Archive
6	SS96B-2.5		0826													Hold & Archive
7	SS96C-0.5		0819					X								
8	SS96C-1.5		0821													Hold & Archive
9	SS96C-2.5		0822													Hold & Archive
10	SS95A-0.5	↓	0832	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 1420
1 Received By:	[illegible]	Dennis Downing	Enthalpy	8/4/16 1420
2 Relinquished By:	[illegible]	Dennis Downing	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 15:47
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS95A-1.5	08/04/16	0835	Soil	1 Jar	None										Hold & Archive
2	SS95A-2.5	↓	0837	↓	↓	↓										Hold & Archive
3	SS95B-0.5		0839					X								
4	SS95B-1.5		0840													Hold & Archive
5	SS95B-2.5		0841													Hold & Archive
6	SS95C-0.5		0832					X								
7	SS95C-1.5		0833													Hold & Archive
8	SS95C-2.5		0835													Hold & Archive
9	SS101A-0.5		0859				X	X								
10	SS101A-1.5	↓	0900	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 14:28
1 Received By:	[illegible]	Dennis Deining	Enthalpy	8/4/16 14:30
2 Relinquished By:	[illegible]	Dennis Deining	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 15:51
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS101A-2.5	08/04/16	0901	Soil	1 JAR	None										Hold & Archive
2	SS101B-0.5	↓	0855	↓	↓	↓	X	X								
3	SS101B-1.5	↓	0857	↓	↓	↓										Hold & Archive
4	SS101B-2.5	↓	0859	↓	↓	↓										Hold & Archive
5	SS101C-0.5	↓	0850	↓	↓	↓	X	X								
6	SS101C-1.5	↓	0851	↓	↓	↓										Hold & Archive
7	SS101C-2.5	↓	0853	↓	↓	↓										Hold & Archive
8	SS102A-0.5	↓	0910	↓	↓	↓		X								
9	SS102A-1.5	↓	0912	↓	↓	↓										Hold & Archive
10	SS102A-2.5	↓	0913	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
[1] Received By:	[signature]	Dennis Downing	Enthalpy	8/4/16 14:20
[2] Relinquished By:	[signature]	Dennis Downing	Enthalpy	8/4/16 15:47
[2] Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
[3] Relinquished By:				
[3] Received By:				

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS102B-0.5	08/04/16	0908	Soil	1 JAR	NONE		X								
2	SS102B-1.5	↓	0910	↓	↓	↓										Hold & Archive
3	SS102B-2.5		0912													Hold & Archive
4	SS102C-0.5		0914					X								
5	SS102C-0.5 DUP		0915					X								
6	SS102C-1.5		0916													Hold & Archive
7	SS102C-2.5		0917													Hold & Archive
8	SS1A-0.5		0925					X								
9	SS1A-1.5		0926													Hold & Archive
10	SS1A-2.5	↓	0927	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[signature]	[illegible]	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	[illegible]	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS1C-0.5	08/04/16	0929	Soil	1 JAR	None		X								
2	SS1C-0.5DUP	↓	0930	↓	↓	↓		X								
3	SS1C-1.5		0931													Hold & Archive
4	SS1C-2.5		0932													Hold & Archive
5	SS2A-0.5		0939					X								
6	SS2A-1.5		0940													Hold & Archive
7	SS2A-2.5		0942													Hold & Archive
8	SS2B-0.5		0944					X								
9	SS2B-1.5		0946													Hold & Archive
10	SS2B-2.5	↓	0948	↓	↓	↓										Hold & Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/2016 14:20
1 Received By:	[illegible]	Dennis Dorong	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	Dennis Dorong	Enthalpy	8/4/16 15:47
2 Received By:	[illegible] Cao	Hongting Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS2C-0.5	08/04/16	0946	Soil	1 JAR	None		X								
2	SS2C-1.5	↓	0947	↓	↓	↓										Hold & Archive
3	SS2C-2.5		0948													Hold & Archive
4	SS98B-0.5		1013					X								
5	SS98B-1.5		1014													Hold & Archive
6	SS98B-2.5		1017													Hold & Archive
7	SS98C-0.5		1020					X								
8	SS98C-1.5		1022													Hold & Archive
9	SS98C-2.5		1024													Hold & Archive
10	SS92A-0.5	↓	1049	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	8/4/16 14:20
1 Received By:	[signature]	Dennis Dorney	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Dorney	Enthalpy	8/4/16 15:47
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3 Relinquished By:				
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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS92A-1.5	08/04/16		Soil	1 JAR	None											Hold & Archive
2	SS92A-2.5	↓		↓	↓	↓											Hold & Archive
3	SS92B-0.5							X									
4	SS92B-0.5 DUP							X									
5	SS92B-1.5																Hold & Archive
6	SS92B-2.5																Hold & Archive
7	SS92C-0.5							X									
8	SS92C-1.5																Hold & Archive
9	SS92C-2.5																Hold & Archive
10	SS93A-0.5	↓		↓	↓	↓		X									

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1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
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2 Relinquished By:	[signature]	Dennis Downey	Enthalpy	8/4/16 15:47
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1	SS93A-1.5	08/04/16	1101	Soil	1 JAR	None										Hold & Archive
2	SS93A-2.5	↓	1105	↓	↓	↓										Hold & Archive
3	SS93B-0.5		1110					X								
4	SS93B-1.5		1112													Hold & Archive
5	SS93B-2.5		1114													Hold & Archive
6	SS93C-0.5		1116					X								
7	SS93C-1.5		1118													Hold & Archive
8	SS93C-2.5		1119													Hold & Archive
9	SS38A-0.5		1138					X								
10	SS38A-0.5DUP	↓	1138	↓	↓	↓		X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/2016 14:20
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2 Relinquished By:	[signature]	Dennis Dorsey	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hongling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS38A-1.5	08/04/16		Soil	1 JAR	None										Hold & Archive
2	SS38A-2.5	↓		↓	↓	↓										Hold & Archive
3	SS38B-0.5							X								
4	SS38B-1.5															Hold & Archive
5	SS38B-2.5															Hold & Archive
6	SS38C-0.5							X								
7	SS38C-1.5															Hold & Archive
8	SS68A-0.5															Hold & Archive
9	SS68A-1.5							X								
10	SS68A-2.5	↓		↓	↓	↓										

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[illegible]	Dennis Dorsey	Enthalpy	8/4/16 14:20
2 Relinquished By:	[illegible]	Dennis Dorsey	Enthalpy	8/4/16 15:47
2 Received By:	[illegible]	Hongling Cao	"	8/4/16 1535
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 381162	Standard:		4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 13 of	2 Day:		1 Day:	X	Same Day:	
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS68B-0.5	08/04/16		Soil	1 JAR	None		X	
2	SS68B-1.5								Hold & Archive
3	SS68B-2.5								Hold & Archive
4	SS68C-0.5							X	
5	SS68C-1.5								Hold & Archive
6	SS68C-2.5								Hold & Archive
7	SS55A-0.5						X		
8	SS55A-1.5								Hold & Archive
9	SS55A-2.5								Hold & Archive
10	SS55B-0.5						X		

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:20
1 Received By:	[signature]	Dennis Deming	Enthalpy	8/4/16 14:20
2 Relinquished By:	[signature]	Dennis Deming	Enthalpy	8/4/16 15:47
2 Received By:	[signature]	Hoagling Cao	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381162 Page: 14 of	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Company:	Alta Environmental	Name:	Jefferson High School
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Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS55B-1.5	08/04/16	1345	Soil	1 JAR	None											Hold & Archive
2	SS55B-2.5	↓	1347	↓	↓	↓											Hold & Archive
3	SS55C-0.5		1338				X										
4	SS55C-1.5		1341														Hold & Archive
5	SS55C-2.5		1343	↓	↓	↓											Hold & Archive
6	EQBL0804-1		1400	H_2O	1 Bottle	None	X	X									
7	EQBL0804-2		1400	↓	↓	↓	X	X									
8																	
9																	
10		↓															

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	08/04/16 14:00
1 Received By:	[signature]	Dennis Dorsey	Enthalpy	8/04/16 - 14:20
2 Relinquished By:	[signature]	Dennis Dorsey	Enthalpy	8/4/16 - 15:47
2 Received By:	[signature]	HongLing Chen	"	8/4/16 15:57
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: AVTA ENVIRONMENTAL Project: JEFFERSON HIGH SCHOOL

Date Received: 8/04/16. Sampler's Signature Present: Yes (No)

Sample(s) received in a cooler? (Yes) How many? 3 No (skip section 2) Sample Temp (°C):

Sample Temp (°C) from each cooler: #1: 3.4°C #2: 3.3°C #3: 3.5°C #4:

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information:

Section 2

Was the cooler packed with: ✓ Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other

Cooler Temp (°C): #1: 2.4°C #2: 1.6°C #3: 3.2°C #4:

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?		✓	
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay department immediately.*			✓

Section 4

Explanations/Comments: RECEIVED (2) CONTAINERS FOR "SS93A-2.5". ID WAS CHANGED ON (1) OF THE CONTAINERS TO COINCIDE WITH SAMPLING TIMES.

Section 5

Was the Project Manager notified via email of discrepancies: (Yes) No N/A

Was the email sent to: R.C.

Project Manager's response:

Completed By: Date: 8/04/16.

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	381187
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	09/09/2016
		Date Received:	08/05/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angles, CA

Supplement 3

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
381187-072	SS88C-1.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 08:51	**Site:**			
Sample #:	**381187-072**	**Client Sample #:**	SS88C-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1170681		
Arsenic	**6.20**	20	0.4	6	mg/Kg	09/08/16	09/09/16	KLN	

QCBatchID:	QC1170681	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	09/08/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1170681MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170681LCS1											
Arsenic	50		50.8		mg/Kg	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170681MS1, QC1170681MSD1												**Source: 381162-044**
Arsenic	4.31	50	50	41.7	40.3	mg/Kg	75	72	3.4	75-125	20	M

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

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806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 1 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS27A-0.5	8/5/16	0703	SOIL	1 GLASS JAR		X	X								
2	-0.5 DUP		0703				X	X								
3	-1.5		0704													HOLD/ARCHIVE
4	-2.5		0705													HOLD/ARCHIVE
5	SS27B-0.5		0700				X	X								
6	-1.5		0703													HOLD/ARCHIVE
7	-2.5		0707													HOLD/ARCHIVE
8	SS27C-0.5		0700				X	X								
9	-1.5		0703													HOLD/ARCHIVE
10	-2.5		0705													HOLD/ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	ENTHALPY ANALYTICAL	08/05/16 12:30
2 Relinquished By:		T. NASH	E.A.	08/05/16 1335
2 Received By:		ZAID P.		8/5/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 381187	Standard:		4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 14	2 Day:		1 Day:	X	Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS47A-0.5	8/5/16	0714	SOIL	1 GLASS JAR			X	
2	-1.5		0717						HOLD/ARCHIVE
3	-2.5		0723						HOLD/ARCHIVE
4	SS47B-0.5		0712					X	
5	-1.5		0714						HOLD/ARCHIVE
6	-2.5		0717						HOLD/ARCHIVE
7	SS47C-0.5		0713					X	
8	SS43A-0.5		0737					X	
9	SS43C-0.5		0730					X	
10	-1.5		0732						HOLD/ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:	[signature]	T. Nash	ENTHALPY ANALYTICAL	08/05/16 12:30
2 Relinquished By:	[signature]	T. Nash	E.A	08/05/16 1335
2 Received By:	[signature]	ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

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Chain of Custody Record

Lab No: 381187

Page: 3 of 14

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2 Day:		1 Day:	X	Same Day:	

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	5543A-0.5 DUP	8/5/16	0737	SOIL	1 GLASS JAR			X	
2	-1.5		0739						HOLD / ARCHIVE
3	-2.5		0740						HOLD / ARCHIVE
4	5543C-2.5		0734						HOLD / ARCHIVE
5	5543B-0.5		0730					X	
6	-1.5		0732						HOLD / ARCHIVE
7	-2.5		0738						HOLD / ARCHIVE
8	5553A-0.5		0753					X	
9	5553A -1.5		0754						HOLD / ARCHIVE
10	-2.5		0755						HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BIXBY	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	ENTHALPY ANALYTICAL	08/05/16 12:30
2 Relinquished By:		T. NASH	E.A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

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Lab No: 381187

Page: 4 of 14

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2 Day:		1 Day:	X	Same Day:	

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS53B-0.5	8/5/16	0753	SOIL	1 GLASS JAR			X	
2	-1.5		0755						HOLD/ARCHIVE
3	-2.5		0756						HOLD/ARCHIVE
4	SS53C-0.5		0749					X	
5	-1.5		0750						HOLD/ARCHIVE
6	-2.5		0751						HOLD/ARCHIVE
7	SS54A-0.5		0806					X	
8	-1.5		0808						HOLD/ARCHIVE
9	-2.5		0809						HOLD/ARCHIVE
10	SS54B-0.5		0806					X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:	[signature]	T. NASH	EA	08/05/16 12:30
2 Relinquished By:	[signature]	T. NASH	EA	08/05/16 1335
2 Received By:	[signature]	ZADP		8/05/16 1340
3 Relinquished By:				
3 Received By:				

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS54A-0.5 DUP	8/5/16	0806	SOIL	1 GLASS JAR			X								
2	SS54B -1.5		0808													HOLD/ARCHIVE
3	-2.5		0810													HOLD/ARCHIVE
4	SS54C-0.5		0804					X								
5	-1.5		0805													HOLD/ARCHIVE
6	-2.5		0806													HOLD/ARCHIVE
7	SS79A-0.5		0820					X								
8	-1.5		0821													HOLD/ARCHIVE
9	-2.5		0824													HOLD/ARCHIVE
10	SS79B-0.5		0826					X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	E. A.	8/5/16 12:30
2 Relinquished By:		T. NASH	E. A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381187

Page: 6 of 14

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS79B-1.5	8/5/16	0828	SOIL	1 GLASS JAR				HOLD/ARCHIVE
2	SS79B-2.5		0829						HOLD/ARCHIVE
3	SS79C-0.5		0819					X	
4	-1.5		0821						HOLD/ARCHIVE
5	-2.5		0822						HOLD/ARCHIVE
6	SS87A-0.5		0838					X	
7	-1.5		0839						HOLD/ARCHIVE
8	-2.5		0841						HOLD/ARCHIVE
9	SS87B-0.5		0839					X	
10	-1.5		0841						HOLD/ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		E. Nash	E.A.	8/5/16 12:30
2 Relinquished By:		E. Nash	E.A.	08/05/16 1335
2 Received By:		TADP.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

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Page: 7 of 14

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Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

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Email:	eric.fraske@altaenviron.com	P.O. #:	
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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS87B-2.5	8/5/16	0842	SOIL	1 GLASS JAR				HOLD / ARCHIVE
2	SS87C-0.5		0845					X	
3	-1.5		0846						HOLD / ARCHIVE
4	-2.5		0847						HOLD / ARCHIVE
5	SS88A-0.5		0850				X	X	
6	-1.5		0851						HOLD / ARCHIVE
7	SS88B-0.5		0857				X	X	
8	-0.5 DUP		0857				X	X	
9	-1.5		0900						HOLD / ARCHIVE
10	-2.5		0903						HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	E. A.	8/5/16 12:30
2 Relinquished By:		T. NASH	E. A.	08/05/16 1335
2 Received By:		ZADP.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

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Lab No: 381187

Page: 8 of 14

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2 Day:		1 Day:	X	Same Day:	

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Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS88C -0.5	8/5/16	0847	SOIL	1 GLASS JAR		X	X	
2	-1.5		0851						HOLD / ARCHIVE
3	-2.5		0854						HOLD / ARCHIVE
4	SS70A -0.5		0945					X	
5	-1.5		0952						HOLD / ARCHIVE
6	-2.5		0955						HOLD / ARCHIVE
7	SS70B -0.5		0945					X	
8	SS70C -0.5		0939					X	
9	-2.5		0944						HOLD / ARCHIVE
10	-2.5		0945						HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN GOLD	ALTA ENV IRON MENTAL	8/5/16
1 Received By:		T. NASH	E.A	8/5/16 12:30
2 Relinquished By:		T. NASH	E.A	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 9 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS73A-0.5	8/5/16	0953	SOIL	1 GLASS JAR			X	
2	-1.5		0954						HOLD/ARCHIVE
3	-2.5		0956						HOLD/ARCHIVE
4	SS73B-0.5		1000					X	
5	-0.5 DUP		1000					X	
6	-1.5		1003						HOLD/ARCHIVE
7	-2.5		1005						HOLD/ARCHIVE
8	SS73C-0.5		1001					X	
9	-1.5		1003						HOLD/ARCHIVE
10	-2.5		1004						HOLD/ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NAGY	E.A.	8/5/16 12:30
2 Relinquished By:		T. NAGY	E.A.	08/05/16 1335
2 Received By:		[illegible]		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 10 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS 74A-0.5	8/5/16	1017	Soil	1 Glass Jar			X	
2	-1.5		1019						HOLD/ARCHIVE
3	-2.5		1021						HOLD/ARCHIVE
4	SS74B-0.5		1014					X	
5	-1.5		1017						HOLD/ARCHIVE
6	-2.5		1018						HOLD/ARCHIVE
7	SS74C-0.5		1015					X	
8	-1.5		1016						HOLD/ARCHIVE
9	-2.5		1017						HOLD/ARCHIVE
10	SS77A-0.5		1025					X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BUD	ALTA ENVIRONMENTAL	8/9/16
1 Received By:		E. Fraske	E.A.	8/9/16 12:30
2 Relinquished By:		T. Nasy	E.A.	08/09/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 381187	Standard:		4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 11 of 14	2 Day:		1 Day:	X	Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

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Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS 77A-1.5	8/5/16	1026	Soil	1 Glass Jar			0.8								HOLD / ARCHIVE
2	↓ -2.5		1027													HOLD / ARCHIVE
3	SS77B-0.5		1030					X								
4	↓ -1.5		1032													HOLD / ARCHIVE
5	↓ -2.5		1033													HOLD / ARCHIVE
6	SS77C-0.5		1024					X								
7	↓ -1.5		1026													HOLD / ARCHIVE
8	↓ -2.5		1028													HOLD / ARCHIVE
9	SS76A-0.5		1049					X								
10	↓ -1.5		1050													HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	DAN BOND	ALTA ENVIRONMENTAL	8/5/16
1 Received By:	[signature]	T. NOSU	E.A.	8/5/16 12:30
2 Relinquished By:	[signature]	T. NOSU	E.A.	08/05/16 1335
2 Received By:	[signature]	ZAD P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.

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ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381187

Page: 12 of 14

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

Analysis Request

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS76A - 2.5	8/5/16	1051	Soil	1 glass jar												HOLD / ARCHIVE
2	SS76B - 0.5		1046					X									
3	- 1.5		1048														HOLD / ARCHIVE
4	- 2.5		1050														HOLD / ARCHIVE
5	SS76C - 0.5		1049					X									
6	- 1.5		1051														HOLD / ARCHIVE
7	- 2.5		1053														HOLD / ARCHIVE
8	SS82A - 0.5		1103					X									
9	- 1.5		1105														HOLD / ARCHIVE
10	- 2.5		1106														HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	E.A.	8/5/16 12:30
2 Relinquished By:		T. NASH	E.A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

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Lab No: 381187

Page: 13 of 14

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Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS82B - 0.5	8/5/16	1101	Soil	1 GLASS JAR			X								~~HOLD/ARCHIVE~~ DJB
2	- 1.5		1102													HOLD/ARCHIVE
3	- 2.5		1103													HOLD/ARCHIVE
4	SS82C - 0.5		1101					X								
5	- 1.5		1103													HOLD/ARCHIVE
6	- 2.5		1106													HOLD/ARCHIVE
7	SS80A - 0.5		1207					X								
8	- 1.5		1209													HOLD/ARCHIVE
9	- 2.5		1210													HOLD/ARCHIVE
10	SS80B - 0.5		1212					X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BRO	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NOSH	E.A.	8/5/16 12:30
2 Relinquished By:		T. NOSH	E.A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

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806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 14 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS 80B-1.5	8/5/16	1214	Soil	1 Glass Jar			[redacted]									HOLD / ARCHIVE
2	-2.5		1215														HOLD / ARCHIVE
3	SS 80C-0.5		1206					X									
4	0.5 DUP		1208					X									
5	-1.5		1210														HOLD / ARCHIVE
6	-2.5		1207														HOLD / ARCHIVE
7	EQBL0805-1						X	X									
8	EQBL0805-2						X	X									
9																	
10																	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	E. A.	8/5/16 12:37
2 Relinquished By:		T. NASH	E. A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ALTA ENVIRONMENTAL Project: JEFFERSON H.S.

Date Received: 08/05/16 Sampler's Signature Present: Yes (No)

Sample(s) received in a cooler? (Yes) How many? 3 No (skip section 2) Sample Temp (°C):_____

Sample Temp (°C) from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information:_____

Section 2

Was the cooler packed with: ✓ Ice ____ Ice Packs ____ Bubble Wrap ____ Styrofoam ____ Paper ____ None ____ Other_____

Cooler Temp (°C): #1: -0.6° #2: 1.1° #3: 0.8° #4: _____

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?		✓	
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay department immediately.*			✓

Section 4

Explanations/Comments:_____

Section 5

Was the Project Manager notified via email of discrepancies: Yes No (N/A)

Was the email sent to:_____

Project Manager's response:

Completed By: [signature] Date: 08/05/16

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Thursday, September 08, 2016 10:15 AM
To: Ranjit Clarke
Subject: Thomas Jefferson High School

Hi Ranjit,

Please run the following two samples for arsenic by EPA Method 6020 on a Rush 24-hour basis.

- Sample SS88C-1.5 collected on 8/5/2016 from lab report 381187
- Sample SS95B-0.5 collected on 8/4/2016 from lab report 381162

Please let me know if you need any additional information.

Thanks,

Eric Fraske, PE
Project Manager/Senior III

ALTA ENVIRONMENTAL
Expertise to Reduce Your Environmental and Safety Risks

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

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MONTROSE ENVIRONMENTAL

Client: Alta Environmental
Address: 3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807
Attn: Eric Fraske

Lab Request: 381187
Report Date: 08/08/2016
Date Received: 08/05/2016
Client ID: 11397

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angles, CA

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
381187-001	SS27A-0.5	381187-025	SS43B-0.5	381187-049	SS79A-2.5
381187-002	SS27A-0.5 DUP	381187-026	SS43B-1.5	381187-050	SS79B-0.5
381187-003	SS27A-1.5	381187-027	SS43B-2.5	381187-051	SS79B-1.5
381187-004	SS27A-2.5	381187-028	SS53A-0.5	381187-052	SS79B-2.5
381187-005	SS27B-0.5	381187-029	SS53A-1.5	381187-053	SS79C-0.5
381187-006	SS27B-1.5	381187-030	SS53A-2.5	381187-054	SS79C-1.5
381187-007	SS27B-2.5	381187-031	SS53B-0.5	381187-055	SS79C-2.5
381187-008	SS27C-0.5	381187-032	SS53B-1.5	381187-056	SS87A-0.5
381187-009	SS27C-1.5	381187-033	SS53B-2.5	381187-057	SS87A-1.5
381187-010	SS27C-2.5	381187-034	SS53C-0.5	381187-058	SS87A-2.5
381187-011	SS47A-0.5	381187-035	SS53C-1.5	381187-059	SS87B-0.5
381187-012	SS47A-1.5	381187-036	SS53C-2.5	381187-060	SS87B-1.5
381187-013	SS47A-2.5	381187-037	SS54A-0.5	381187-061	SS87B-2.5
381187-014	SS47B-0.5	381187-038	SS54A-1.5	381187-062	SS87C-0.5
381187-015	SS47B-1.5	381187-039	SS54A-2.5	381187-063	SS87C-1.5
381187-016	SS47B-2.5	381187-040	SS54B-0.5	381187-064	SS87C-2.5
381187-017	SS47C-0.5	381187-041	SS54B-0.5 DUP	381187-065	SS88A-0.5
381187-018	SS43A-0.5	381187-042	SS54B-1.5	381187-066	SS88A-1.5
381187-019	SS43C-0.5	381187-043	SS54B-2.5	381187-067	SS88B-0.5
381187-020	SS43C-1.5	381187-044	SS54C-0.5	381187-068	SS88B-0.5 DUP
381187-021	SS43A-0.5 DUP	381187-045	SS54C-1.5	381187-069	SS88B-1.5
381187-022	SS43A-1.5	381187-046	SS54C-2.5	381187-070	SS88B-2.5
381187-023	SS43A-2.5	381187-047	SS79A-0.5	381187-071	SS88C-0.5
381187-024	SS43C-2.5	381187-048	SS79A-1.5	381187-072	SS88C-1.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:03 **Site:**
Sample #: 381187-001 **Client Sample #:** SS27A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**87.5**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169717		
Arsenic	**6.35**	5	0.1	1.5	mg/Kg	08/06/16	08/08/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:03 **Site:**
Sample #: 381187-002 **Client Sample #:** SS27A-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**64.6**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169717		
Arsenic	**4.32**	5	0.1	1.5	mg/Kg	08/06/16	08/08/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:04 **Site:**
Sample #: 381187-003 **Client Sample #:** SS27A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:05 **Site:**
Sample #: 381187-004 **Client Sample #:** SS27A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:00 **Site:**
Sample #: 381187-005 **Client Sample #:** SS27B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**107**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169717		
Arsenic	**4.55**	5	0.1	1.5	mg/Kg	08/06/16	08/08/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:03 **Site:**
Sample #: 381187-006 **Client Sample #:** SS27B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:07 **Site:**
Sample #: 381187-007 **Client Sample #:** SS27B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:00	Site:			
Sample #:	381187-008	Client Sample #:	SS27C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**133**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169717		
Arsenic	**13.6**	5	0.1	1.5	mg/Kg	08/06/16	08/08/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:03	Site:			
Sample #:	381187-009	Client Sample #:	SS27C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:05	Site:			
Sample #:	381187-010	Client Sample #:	SS27C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:14	Site:			
Sample #:	381187-011	Client Sample #:	SS47A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**55.5**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:17	Site:			
Sample #:	381187-012	Client Sample #:	SS47A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:23	Site:			
Sample #:	381187-013	Client Sample #:	SS47A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:12	Site:			
Sample #:	381187-014	Client Sample #:	SS47B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**30.7**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:14	Site:			
Sample #:	381187-015	Client Sample #:	SS47B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:17	Site:			
Sample #:	381187-016	Client Sample #:	SS47B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:13	Site:			
Sample #:	381187-017	Client Sample #:	SS47C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**62.7**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:37	Site:			
Sample #:	381187-018	Client Sample #:	SS43A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**30.0**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:30	Site:			
Sample #:	381187-019	Client Sample #:	SS43C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**21.6**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:32	Site:			
Sample #:	381187-020	Client Sample #:	SS43C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:37	Site:			
Sample #:	381187-021	Client Sample #:	SS43A-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**14.4**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 07:39	Site:			
Sample #:	381187-022	Client Sample #:	SS43A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:40 **Site:**
Sample #: **381187-023** **Client Sample #:** SS43A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:34 **Site:**
Sample #: **381187-024** **Client Sample #:** SS43C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:30 **Site:**
Sample #: **381187-025** **Client Sample #:** SS43B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**63.7**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:32 **Site:**
Sample #: **381187-026** **Client Sample #:** SS43B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:38 **Site:**
Sample #: **381187-027** **Client Sample #:** SS43B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:53 **Site:**
Sample #: **381187-028** **Client Sample #:** SS53A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**49.7**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:54 **Site:**
Sample #: **381187-029** **Client Sample #:** SS53A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:55 **Site:**
Sample #: **381187-030** **Client Sample #:** SS53A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:53 **Site:**
Sample #: 381187-031 **Client Sample #:** SS53B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**56.2**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:55 **Site:**
Sample #: 381187-032 **Client Sample #:** SS53B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:56 **Site:**
Sample #: 381187-033 **Client Sample #:** SS53B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:49 **Site:**
Sample #: 381187-034 **Client Sample #:** SS53C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**48.0**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:50 **Site:**
Sample #: 381187-035 **Client Sample #:** SS53C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 07:51 **Site:**
Sample #: 381187-036 **Client Sample #:** SS53C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:06 **Site:**
Sample #: 381187-037 **Client Sample #:** SS54A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**2.42**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:08 **Site:**
Sample #: 381187-038 **Client Sample #:** SS54A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:09 **Site:**
Sample #: 381187-039 **Client Sample #:** SS54A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:06 **Site:**
Sample #: 381187-040 **Client Sample #:** SS54B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**53.0**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:06 **Site:**
Sample #: 381187-041 **Client Sample #:** SS54B-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**64.2**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:08 **Site:**
Sample #: 381187-042 **Client Sample #:** SS54B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:10 **Site:**
Sample #: 381187-043 **Client Sample #:** SS54B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:04 **Site:**
Sample #: 381187-044 **Client Sample #:** SS54C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**63.6**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:05 **Site:**
Sample #: 381187-045 **Client Sample #:** SS54C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:06 **Site:**
Sample #: 381187-046 **Client Sample #:** SS54C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:20 **Site:**
Sample #: 381187-047 **Client Sample #:** SS79A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**110**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:21 **Site:**
Sample #: 381187-048 **Client Sample #:** SS79A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:24 **Site:**
Sample #: 381187-049 **Client Sample #:** SS79A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:26 **Site:**
Sample #: 381187-050 **Client Sample #:** SS79B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169719		
Lead	**60.5**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:28 **Site:**
Sample #: 381187-051 **Client Sample #:** SS79B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:29 **Site:**
Sample #: 381187-052 **Client Sample #:** SS79B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:19 **Site:**
Sample #: 381187-053 **Client Sample #:** SS79C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**32.9**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 08:21 **Site:**
Sample #: 381187-054 **Client Sample #:** SS79C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:22	Site:			
Sample #:	381187-055	Client Sample #:	SS79C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:38	Site:			
Sample #:	381187-056	Client Sample #:	SS87A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**99.1**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:39	Site:			
Sample #:	381187-057	Client Sample #:	SS87A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:41	Site:			
Sample #:	381187-058	Client Sample #:	SS87A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:39	Site:			
Sample #:	381187-059	Client Sample #:	SS87B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**47.9**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:41	Site:			
Sample #:	381187-060	Client Sample #:	SS87B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:42	Site:			
Sample #:	381187-061	Client Sample #:	SS87B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:45	Site:			
Sample #:	381187-062	Client Sample #:	SS87C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**131**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:46	Site:			
Sample #:	381187-063	Client Sample #:	SS87C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:47	Site:			
Sample #:	381187-064	Client Sample #:	SS87C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:50	Site:			
Sample #:	381187-065	Client Sample #:	SS88A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**5.81**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169717		
Arsenic	**4.85**	5	0.1	1.5	mg/Kg	08/06/16	08/08/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:51	Site:			
Sample #:	381187-066	Client Sample #:	SS88A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:57	Site:			
Sample #:	381187-067	Client Sample #:	SS88B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**55.4**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169717		
Arsenic	**5.92**	5	0.1	1.5	mg/Kg	08/06/16	08/08/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:57	Site:			
Sample #:	381187-068	Client Sample #:	SS88B-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**59.6**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169717		
Arsenic	**8.76**	5	0.1	1.5	mg/Kg	08/06/16	08/08/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:00	Site:			
Sample #:	381187-069	Client Sample #:	SS88B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:03	Site:			
Sample #:	381187-070	Client Sample #:	SS88B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:47	Site:			
Sample #:	381187-071	Client Sample #:	SS88C-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**154**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169717		
Arsenic	**14.4**	5	0.1	1.5	mg/Kg	08/06/16	08/08/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:51	Site:			
Sample #:	381187-072	Client Sample #:	SS88C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 08:54	Site:			
Sample #:	381187-073	Client Sample #:	SS88C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:45	Site:			
Sample #:	381187-074	Client Sample #:	SS70A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**75.4**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:52	Site:			
Sample #:	381187-075	Client Sample #:	SS70A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:55	Site:			
Sample #:	381187-076	Client Sample #:	SS70A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:45	Site:			
Sample #:	381187-077	Client Sample #:	SS70B-0.5	Sample Type:	

Method: EPA 6010B NELAC | Prep Method: EPA 3050B | QCBatchID: QC1169720

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Lead	**134**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:39	Site:			
Sample #:	381187-078	Client Sample #:	SS70C-0.5	Sample Type:	

Method: EPA 6010B NELAC | Prep Method: EPA 3050B | QCBatchID: QC1169720

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Lead	**64.2**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:44	Site:			
Sample #:	381187-079	Client Sample #:	SS70C-1.5	Sample Type:	

Method: | Prep Method: | QCBatchID:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:45	Site:			
Sample #:	381187-080	Client Sample #:	SS70C-2.5	Sample Type:	

Method: | Prep Method: | QCBatchID:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:53	Site:			
Sample #:	381187-081	Client Sample #:	SS73A-0.5	Sample Type:	

Method: EPA 6010B NELAC | Prep Method: EPA 3050B | QCBatchID: QC1169720

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Lead	**40.7**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:54	Site:			
Sample #:	381187-082	Client Sample #:	SS73A-1.5	Sample Type:	

Method: | Prep Method: | QCBatchID:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 09:56	Site:			
Sample #:	381187-083	Client Sample #:	SS73A-2.5	Sample Type:	

Method: | Prep Method: | QCBatchID:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 10:00	Site:			
Sample #:	381187-084	Client Sample #:	SS73B-0.5	Sample Type:	

Method: EPA 6010B NELAC | Prep Method: EPA 3050B | QCBatchID: QC1169720

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Lead	**22.7**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:00 **Site:**
Sample #: 381187-085 **Client Sample #:** SS73B-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**27.0**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:03 **Site:**
Sample #: 381187-086 **Client Sample #:** SS73B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:05 **Site:**
Sample #: 381187-087 **Client Sample #:** SS73B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:01 **Site:**
Sample #: 381187-088 **Client Sample #:** SS73C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**121**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:03 **Site:**
Sample #: 381187-089 **Client Sample #:** SS73C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:04 **Site:**
Sample #: 381187-090 **Client Sample #:** SS73C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:17 **Site:**
Sample #: 381187-091 **Client Sample #:** SS74A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**247**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:19 **Site:**
Sample #: 381187-092 **Client Sample #:** SS74A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:21 **Site:**
Sample #: 381187-093 **Client Sample #:** SS74A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:14 **Site:**
Sample #: 381187-094 **Client Sample #:** SS74B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**75.0**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:17 **Site:**
Sample #: 381187-095 **Client Sample #:** SS74B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:18 **Site:**
Sample #: 381187-096 **Client Sample #:** SS74B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:15 **Site:**
Sample #: 381187-097 **Client Sample #:** SS74C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**157**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:16 **Site:**
Sample #: 381187-098 **Client Sample #:** SS74C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:17 **Site:**
Sample #: 381187-099 **Client Sample #:** SS74C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:25 **Site:**
Sample #: 381187-100 **Client Sample #:** SS77A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169720		
Lead	**468**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 10:26	**Site:**			
Sample #:	**381187-101**	**Client Sample #:**	SS77A-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 10:27	**Site:**			
Sample #:	**381187-102**	**Client Sample #:**	SS77A-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 10:30	**Site:**			
Sample #:	**381187-103**	**Client Sample #:**	SS77B-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169720
Lead	**415**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 10:32	**Site:**			
Sample #:	**381187-104**	**Client Sample #:**	SS77B-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 10:33	**Site:**			
Sample #:	**381187-105**	**Client Sample #:**	SS77B-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 10:24	**Site:**			
Sample #:	**381187-106**	**Client Sample #:**	SS77C-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169721
Lead	**82.6**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 10:26	**Site:**			
Sample #:	**381187-107**	**Client Sample #:**	SS77C-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 10:28	**Site:**			
Sample #:	**381187-108**	**Client Sample #:**	SS77C-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:49 **Site:**
Sample #: 381187-109 **Client Sample #:** SS76A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**106**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:50 **Site:**
Sample #: 381187-110 **Client Sample #:** SS76A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:51 **Site:**
Sample #: 381187-111 **Client Sample #:** SS76A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:46 **Site:**
Sample #: 381187-112 **Client Sample #:** SS76B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**29.2**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:48 **Site:**
Sample #: 381187-113 **Client Sample #:** SS76B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:50 **Site:**
Sample #: 381187-114 **Client Sample #:** SS76B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:49 **Site:**
Sample #: 381187-115 **Client Sample #:** SS76C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**273**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:51 **Site:**
Sample #: 381187-116 **Client Sample #:** SS76C-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 10:53 **Site:**
Sample #: 381187-117 **Client Sample #:** SS76C-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 11:03 **Site:**
Sample #: 381187-118 **Client Sample #:** SS82A-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**32.2**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 11:05 **Site:**
Sample #: 381187-119 **Client Sample #:** SS82A-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 11:06 **Site:**
Sample #: 381187-120 **Client Sample #:** SS82A-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 11:01 **Site:**
Sample #: 381187-121 **Client Sample #:** SS82B-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**39.4**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 11:02 **Site:**
Sample #: 381187-122 **Client Sample #:** SS82B-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 11:03 **Site:**
Sample #: 381187-123 **Client Sample #:** SS82B-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/05/2016 11:01 **Site:**
Sample #: 381187-124 **Client Sample #:** SS82C-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**54.5**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 11:03	Site:			
Sample #:	381187-125	Client Sample #:	SS82C-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 11:06	Site:			
Sample #:	381187-126	Client Sample #:	SS82C-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 12:07	Site:			
Sample #:	381187-127	Client Sample #:	SS80A-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**57.0**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 12:09	Site:			
Sample #:	381187-128	Client Sample #:	SS80A-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 12:10	Site:			
Sample #:	381187-129	Client Sample #:	SS80A-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 12:12	Site:			
Sample #:	381187-130	Client Sample #:	SS80B-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**62.2**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 12:14	Site:			
Sample #:	381187-131	Client Sample #:	SS80B-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/05/2016 12:15	Site:			
Sample #:	381187-132	Client Sample #:	SS80B-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 12:06	**Site:**			
Sample #:	**381187-133**	**Client Sample #:**	SS80C-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**131**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 12:08	**Site:**			
Sample #:	**381187-134**	**Client Sample #:**	SS80C-0.5 DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169721		
Lead	**146**	1	0.32	0.5	mg/Kg	08/05/16	08/06/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 12:10	**Site:**			
Sample #:	**381187-135**	**Client Sample #:**	SS80C-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016 12:07	**Site:**			
Sample #:	**381187-136**	**Client Sample #:**	SS80C-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016	**Site:**			
Sample #:	**381187-137**	**Client Sample #:**	EQBL0805-1	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169722		
Lead	ND	1	0.004	0.005	mg/L	08/06/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169718		
Arsenic	ND	1	0.13	2	ug/L	08/06/16	08/08/16	MH	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/05/2016	**Site:**			
Sample #:	**381187-138**	**Client Sample #:**	EQBL0805-2	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169722		
Lead	ND	1	0.004	0.005	mg/L	08/06/16	08/06/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169718		
Arsenic	ND	1	0.13	2	ug/L	08/06/16	08/08/16	MH	

QCBatchID:	QC1169717	Analyst:	mhuo	Method:	EPA 6020
Matrix:	Solid	Analyzed:	08/05/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169717MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169717LCS1											
Arsenic	50		50.9		mg/Kg	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169717MS1, QC1169717MSD1												**Source: 381187-001**
Arsenic	6.35	50	50	57.2	52.7	mg/Kg	102	93	8.2	75-125	20	

QCBatchID: QC1169718	Analyst: mhuo	Method: EPA 6020
Matrix: Water	Analyzed: 08/05/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169718MB1					
Arsenic	ND	ug/L	0.13	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169718LCS1											
Arsenic	50		42.4		ug/L	85			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169718MS1, QC1169718MSD1												**Source: 381187-137**
Arsenic	ND	50	50	40.5	38.2	ug/L	81	76	5.8	75-125	20	

QCBatchID:	QC1169719	Analyst:	jeannynguye	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/06/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169719MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169719LCS1											
Lead	100		104		mg/Kg	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169719MS1, QC1169719MSD1												**Source: 381187-001**
Lead	87.5	100	100	139	143	mg/Kg	52	56	2.8	75-125	20	M

QCBatchID:	QC1169720	Analyst:	jeannynguye	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/06/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169720MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169720LCS1											
Lead	100		102		mg/Kg	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169720MS1, QC1169720MSD1												**Source: 381187-053**
Lead	32.9	100	100	125	133	mg/Kg	92	100	6.2	75-125	20	

QCBatchID:	QC1169721	Analyst:	jeannynguye	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/06/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169721MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169721LCS1											
Lead	100		100		mg/Kg	100			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169721MS1, QC1169721MSD1												**Source: 381187-106**
Lead	82.6	100	100	195	172	mg/Kg	112	89	12.5	75-125	20	

QCBatchID: QC1169722	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Water	Analyzed: 08/06/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169722MB1					
Lead	ND	mg/L	0.004	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169722LCS1											
Lead	2		2.09		mg/L	105			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169722MS1, QC1169722MSD1												**Source: 381187-137**
Lead	ND	1	1	0.964	1.03	mg/L	96	103	6.6	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 1 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS27A-0.5	8/5/16	0703	SOIL	1 GLASS JAR		X	X								
2	-0.5 DUP		0703				X	X								
3	-1.5		0704													HOLD/ARCHIVE
4	-2.5		0705													HOLD/ARCHIVE
5	SS27B-0.5		0700				X	X								
6	-1.5		0703													HOLD/ARCHIVE
7	-2.5		0707													HOLD/ARCHIVE
8	SS27C-0.5		0700				X	X								
9	-1.5		0703													HOLD/ARCHIVE
10	-2.5		0705													HOLD/ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	ENTHALPY ANALYTICAL	08/05/16 12:30
2 Relinquished By:		T. NASH	E.A.	08/05/16 1335
2 Received By:		ZAID P.		8/5/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 381187	Standard:		4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 14	2 Day:		1 Day:	X	Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS47A-0.5	8/5/16	0714	SOIL	1 GLASS JAR			X	
2	-1.5		0717						HOLD/ARCHIVE
3	-2.5		0723						HOLD/ARCHIVE
4	SS47B-0.5		0712					X	
5	-1.5		0714						HOLD/ARCHIVE
6	-2.5		0717						HOLD/ARCHIVE
7	SS47C-0.5		0713					X	
8	SS43A-0.5		0737					X	
9	SS43C-0.5		0730					X	
10	-1.5		0732						HOLD/ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:	[signature]	T. Nash	ENTHALPY ANALYTICAL	08/05/16 12:30
2 Relinquished By:	[signature]	T. Nash	E.A	08/05/16 1335
2 Received By:	[signature]	ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381187

Page: 3 of 14

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	5543A-0.5 DUP	8/5/16	0737	SOIL	1 GLASS JAR			X	
2	-1.5		0739						HOLD / ARCHIVE
3	-2.5		0740						HOLD / ARCHIVE
4	5543C-2.5		0734						HOLD / ARCHIVE
5	5543B-0.5		0730					X	
6	-1.5		0732						HOLD / ARCHIVE
7	-2.5		0738						HOLD / ARCHIVE
8	5553A-0.5		0753					X	
9	5553A -1.5		0754						HOLD / ARCHIVE
10	-2.5		0755						HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BIXBY	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	ENTHALPY ANALYTICAL	08/05/16 12:30
2 Relinquished By:		T. NASH	E.A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.

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Chain of Custody Record

Lab No: 381187

Page: 4 of 14

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS53B-0.5	8/5/16	0753	SOIL	1 GLASS JAR			X	
2	-1.5		0755						HOLD/ARCHIVE
3	-2.5		0756						HOLD/ARCHIVE
4	SS53C-0.5		0749					X	
5	-1.5		0750						HOLD/ARCHIVE
6	-2.5		0751						HOLD/ARCHIVE
7	SS54A-0.5		0806					X	
8	-1.5		0808						HOLD/ARCHIVE
9	-2.5		0809						HOLD/ARCHIVE
10	SS54B-0.5		0806					X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:	[signature]	T. NASH	EA	08/05/16 12:30
2 Relinquished By:	[signature]	T. NASH	EA	08/05/16 1335
2 Received By:	[signature]	ZADP		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 5 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS54A-0.5 DUP	8/5/16	0806	SOIL	1 GLASS JAR			X								
2	SS54B -1.5		0808													HOLD/ARCHIVE
3	-2.5		0810													HOLD/ARCHIVE
4	SS54C-0.5		0804					X								
5	-1.5		0805													HOLD/ARCHIVE
6	-2.5		0806													HOLD/ARCHIVE
7	SS79A-0.5		0820					X								
8	-1.5		0821													HOLD/ARCHIVE
9	-2.5		0824													HOLD/ARCHIVE
10	SS79B-0.5		0826					X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	E. A.	8/5/16 12:30
2 Relinquished By:		T. NASH	E. A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

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ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381187

Page: 6 of 14

Turn Around Time (Rush by advanced notice only)

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2 Day:		1 Day:	X	Same Day:	

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Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS79B-1.5	8/5/16	0828	SOIL	1 GLASS JAR				HOLD/ARCHIVE
2	SS79B-2.5		0829						HOLD/ARCHIVE
3	SS79C-0.5		0819					X	
4	-1.5		0821						HOLD/ARCHIVE
5	-2.5		0822						HOLD/ARCHIVE
6	SS87A-0.5		0838					X	
7	-1.5		0839						HOLD/ARCHIVE
8	-2.5		0841						HOLD/ARCHIVE
9	SS87B-0.5		0839					X	
10	-1.5		0841						HOLD/ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		E. Nash	E.A.	8/5/16 12:30
2 Relinquished By:		E. Nash	E.A.	08/05/16 1335
2 Received By:		TADP.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

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ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381187

Page: 7 of 14

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS87B-2.5	8/5/16	0842	SOIL	1 GLASS JAR				HOLD / ARCHIVE
2	SS87C-0.5		0845					X	
3	-1.5		0846						HOLD / ARCHIVE
4	-2.5		0847						HOLD / ARCHIVE
5	SS88A-0.5		0850				X	X	
6	-1.5		0851						HOLD / ARCHIVE
7	SS88B-0.5		0857				X	X	
8	-0.5 DUP		0857				X	X	
9	-1.5		0900						HOLD / ARCHIVE
10	-2.5		0903						HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	E. A.	8/5/16 12:30
2 Relinquished By:		T. NASH	E. A.	08/05/16 1335
2 Received By:		ZADP.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

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ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381187

Page: 8 of 14

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS88C -0.5	8/5/16	0847	SOIL	1 GLASS JAR		X	X	
2	-1.5		0851						HOLD / ARCHIVE
3	-2.5		0854						HOLD / ARCHIVE
4	SS70A -0.5		0945					X	
5	-1.5		0952						HOLD / ARCHIVE
6	-2.5		0955						HOLD / ARCHIVE
7	SS70B -0.5		0945					X	
8	SS70C -0.5		0939					X	
9	-2.5		0944						HOLD / ARCHIVE
10	-2.5		0945						HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN GOLD	ALTA ENV IRON MENTAL	8/5/16
1 Received By:		T. NASH	E.A	8/5/16 12:30
2 Relinquished By:		T. NASH	E.A	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 9 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS73A-0.5	8/5/16	0953	SOIL	1 GLASS JAR			X	
2	-1.5		0954						HOLD/ARCHIVE
3	-2.5		0956						HOLD/ARCHIVE
4	SS73B-0.5		1000					X	
5	-0.5 DUP		1000					X	
6	-1.5		1003						HOLD/ARCHIVE
7	-2.5		1005						HOLD/ARCHIVE
8	SS73C-0.5		1001					X	
9	-1.5		1003						HOLD/ARCHIVE
10	-2.5		1004						HOLD/ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NAGY	E.A.	8/5/16 12:30
2 Relinquished By:		T. NAGY	E.A.	08/05/16 1335
2 Received By:		[illegible]		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 10 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Company:	Alta Environmental	Name:	Jefferson High School
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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS 74A-0.5	8/5/16	1017	Soil	1 Glass Jar			X	
2	-1.5		1019						HOLD/ARCHIVE
3	-2.5		1021						HOLD/ARCHIVE
4	SS74B-0.5		1014					X	
5	-1.5		1017						HOLD/ARCHIVE
6	-2.5		1018						HOLD/ARCHIVE
7	SS74C-0.5		1015					X	
8	-1.5		1016						HOLD/ARCHIVE
9	-2.5		1017						HOLD/ARCHIVE
10	SS77A-0.5		1025					X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BUD	ALTA ENVIRONMENTAL	8/9/16
1 Received By:		E. Fraske	E.A.	8/9/16 12:30
2 Relinquished By:		T. Nasy	E.A.	08/09/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 381187	Standard:		4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 11 of 14	2 Day:		1 Day:	X	Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

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Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS 77A-1.5	8/5/16	1026	Soil	1 Glass Jar			0.8								HOLD / ARCHIVE
2	↓ -2.5		1027													HOLD / ARCHIVE
3	SS77B-0.5		1030					X								
4	↓ -1.5		1032													HOLD / ARCHIVE
5	↓ -2.5		1033													HOLD / ARCHIVE
6	SS77C-0.5		1024					X								
7	↓ -1.5		1026													HOLD / ARCHIVE
8	↓ -2.5		1028													HOLD / ARCHIVE
9	SS76A-0.5		1049					X								
10	↓ -1.5		1050													HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	DAN BOND	ALTA ENVIRONMENTAL	8/5/16
1 Received By:	[signature]	T. NOSU	E.A.	8/5/16 12:30
2 Relinquished By:	[signature]	T. NOSU	E.A.	08/05/16 1335
2 Received By:	[signature]	ZAD P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

Phone: (714) 771-6900 Fax: (714)771-9933

Billing: Enthalpy - SoCal

c/o Montrose Environmental Group

1 Park Plaza, Suite 1000, Irvine, CA 92614

ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381187

Page: 12 of 14

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:	X	Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

Analysis Request

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS76A - 2.5	8/5/16	1051	Soil	1 glass jar												HOLD / ARCHIVE
2	SS76B - 0.5		1046					X									
3	- 1.5		1048														HOLD / ARCHIVE
4	- 2.5		1050														HOLD / ARCHIVE
5	SS76C - 0.5		1049					X									
6	- 1.5		1051														HOLD / ARCHIVE
7	- 2.5		1053														HOLD / ARCHIVE
8	SS82A - 0.5		1103					X									
9	- 1.5		1105														HOLD / ARCHIVE
10	- 2.5		1106														HOLD / ARCHIVE

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	E.A.	8/5/16 12:30
2 Relinquished By:		T. NASH	E.A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.

806 N. Batavia St., Orange, CA 92868

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ENTHALPY analytical, inc.

Chain of Custody Record

Lab No: 381187

Page: 13 of 14

Turn Around Time (Rush by advanced notice only)

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2 Day:		1 Day:	X	Same Day:	

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Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS82B - 0.5	8/5/16	1101	Soil	1 GLASS JAR			X								~~HOLD/ARCHIVE~~ DJB
2	- 1.5		1102													HOLD/ARCHIVE
3	- 2.5		1103													HOLD/ARCHIVE
4	SS82C - 0.5		1101					X								
5	- 1.5		1103													HOLD/ARCHIVE
6	- 2.5		1106													HOLD/ARCHIVE
7	SS80A - 0.5		1207					X								
8	- 1.5		1209													HOLD/ARCHIVE
9	- 2.5		1210													HOLD/ARCHIVE
10	SS80B - 0.5		1212					X								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BRO	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NOSH	E.A.	8/5/16 12:30
2 Relinquished By:		T. NOSH	E.A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381187 Page: 14 of 14	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS 80B-1.5	8/5/16	1214	Soil	1 Glass Jar			[redacted]									HOLD / ARCHIVE
2	-2.5		1215														HOLD / ARCHIVE
3	SS 80C-0.5		1206					X									
4	0.5 DUP		1208					X									
5	-1.5		1210														HOLD / ARCHIVE
6	-2.5		1207														HOLD / ARCHIVE
7	EQBL0805-1						X	X									
8	EQBL0805-2						X	X									
9																	
10																	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		DAN BOYD	ALTA ENVIRONMENTAL	8/5/16
1 Received By:		T. NASH	E. A.	8/5/16 12:37
2 Relinquished By:		T. NASH	E. A.	08/05/16 1335
2 Received By:		ZAID P.		8/05/16 1340
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ALTA ENVIRONMENTAL Project: JEFFERSON H.S.

Date Received: 08/05/16 Sampler's Signature Present: Yes (No)

Sample(s) received in a cooler? (Yes) How many? 3 No (skip section 2) Sample Temp (°C):_____

Sample Temp (°C) from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information:_____

Section 2

Was the cooler packed with: ✓ Ice ____ Ice Packs ____ Bubble Wrap ____ Styrofoam ____ Paper ____ None ____ Other_____

Cooler Temp (°C): #1: -0.6° #2: 1.1° #3: 0.8° #4: _____

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?		✓	
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay department immediately.*			✓

Section 4

Explanations/Comments:_____

Section 5

Was the Project Manager notified via email of discrepancies: Yes No (N/A)

Was the email sent to:_____

Project Manager's response:

Completed By: [signature] Date: 08/05/16

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	381364
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	09/13/2016
		Date Received:	08/11/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

Supplement 2

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
381364-046	SS93D-1.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/11/2016 08:41	**Site:**			
Sample #:	**381364-046**	**Client Sample #:**	SS93D-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1170775		
Lead	**27.6**	1	0.32	0.5	mg/Kg	09/13/16	09/13/16	JN	

QCBatchID: QC1170775	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 09/13/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1170775MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	**1.06**	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170775LCS1											
Antimony	100		107		mg/Kg	107			80-120		
Arsenic	100		93.1		mg/Kg	93			80-120		
Barium	100		97.9		mg/Kg	98			80-120		
Beryllium	100		88.5		mg/Kg	89			80-120		
Cadmium	100		97.2		mg/Kg	97			80-120		
Chromium	100		98.3		mg/Kg	98			80-120		
Cobalt	100		99.9		mg/Kg	100			80-120		
Copper	100		93.5		mg/Kg	94			80-120		
Lead	100		99.1		mg/Kg	99			80-120		
Molybdenum	100		105		mg/Kg	105			80-120		
Nickel	100		101		mg/Kg	101			80-120		
Selenium	100		85.4		mg/Kg	85			80-120		
Silver	100		94.8		mg/Kg	95			80-120		
Thallium	100		87.4		mg/Kg	87			80-120		
Vanadium	100		97.6		mg/Kg	98			80-120		
Zinc	100		91.9		mg/Kg	92			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170775MS1, QC1170775MSD1												**Source: 382368-001**
Antimony	ND	100	100	40.9	39.6	mg/Kg	42	40	3.2	75-125	20	M
Arsenic	0.80	100	100	95.1	93.1	mg/Kg	94	92	2.1	75-125	20	
Barium	29.0	100	100	127	133	mg/Kg	98	104	4.6	75-125	20	
Beryllium	ND	100	100	91.3	89.7	mg/Kg	92	90	1.8	75-125	20	
Cadmium	ND	100	100	94.1	91.2	mg/Kg	95	92	3.1	75-125	20	
Chromium	8.08	100	100	105	102	mg/Kg	97	94	2.9	75-125	20	
Cobalt	2.83	100	100	99.9	95.7	mg/Kg	97	93	4.3	75-125	20	
Copper	ND	100	100	95.4	94.7	mg/Kg	96	95	0.7	75-125	20	
Lead	2.09	100	100	98.6	97.3	mg/Kg	97	95	1.3	75-125	20	

QCBatchID: QC1170775	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 09/13/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1170775MS1, QC1170775MSD1												**Source: 382368-001**
Molybdenum	ND	100	100	95.2	93.4	mg/Kg	96	94	1.9	75-125	20	
Nickel	4.03	100	100	104	98.9	mg/Kg	100	95	5.0	75-125	20	
Selenium	ND	100	100	85.8	82.9	mg/Kg	88	85	3.4	75-125	20	
Silver	ND	50	50	90.5	88.0	mg/Kg				75-125	20	
Thallium	ND	100	100	80.4	78.3	mg/Kg	83	81	2.6	75-125	20	
Vanadium	13.8	100	100	110	108	mg/Kg	96	94	1.8	75-125	20	
Zinc	9.24	100	100	104	100	mg/Kg	95	91	3.9	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381364 Page: 1 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS1D-0.5	08/11/16	0736	Soil	1 x 8 ounce jar	None		X									
2	SS1D-0.5DUP	08/11/16	0736	Soil	1 x 8 ounce jar	None		X									
3	SS1D-1.5	08/11/16	0738	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS1D-2.5	08/11/16	0741	Soil	1 x 8 ounce jar	None											Hold and Archive
5	SS2D-0.5	08/11/16	0742	Soil	1 x 8 ounce jar	None		X									
6	SS2D-1.5	08/11/16	0743	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS2D-2.5	08/11/16	0744	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS27D-0.5	08/11/16	0823	Soil	1 x 8 ounce jar	None		X									
9	SS27D-1.5	08/11/16	0824	Soil	1 x 8 ounce jar	None											Hold and Archive
10	SS27D-2.5	08/11/16	0826	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
1 Received By:	[signature]	Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 301364 Page: 2 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS27E-0.5	08/11/16	0840	Soil	1 x 8 ounce jar	None		X									
2	SS27E-1.5	08/11/16	0842	Soil	1 x 8 ounce jar	None											Hold and Archive
3	SS27E-2.5	08/11/16	0844	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS27F-0.5	08/11/16	0850	Soil	1 x 8 ounce jar	None	X	X									
5	SS27F-0.5DUP	08/11/16	0850	Soil	1 x 8 ounce jar	None	X	X									
6	SS27F-1.5	08/11/16	0855	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS27F-2.5	08/11/16	0857	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS32D-0.5	08/11/16	0659	Soil	1 x 8 ounce jar	None		X									
9	SS32D-1.5	08/11/16	0701	Soil	1 x 8 ounce jar	None											Hold and Archive
10	SS32D-2.5	08/11/16	0703	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Bina Patel	Alta	08/11/16
1 Received By:	[illegible]	Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381364 Page: 3 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS55D-0.5	08/11/16	1006	Soil	1 x 8 ounce jar	None	X										
2	SS55D-1.5	08/11/16	1008	Soil	1 x 8 ounce jar	None											Hold and Archive
3	SS55D-2.5	08/11/16	1010	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS68D-0.5	08/11/16	1014	Soil	1 x 8 ounce jar	None		X									
5	SS68D-0.5DUP	08/11/16	1015	Soil	1 x 8 ounce jar	None		X									
6	SS68D-1.5	08/11/16	1017	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS68D-2.5	08/11/16	1018	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS79D-0.5	08/11/16	0912	Soil	1 x 8 ounce jar	None		X									
9	SS79D-0.5DUP	08/11/16	0913	Soil	1 x 8 ounce jar	None		X									
10	SS79D-1.5	08/11/16	0914	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
[1] Received By:	[signature]	Tony D	EA	08/11/16 1521
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
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Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS79D-2.5	08/11/16	0916	Soil	1 x 8 ounce jar	None											Hold and Archive
2	SS79E-0.5	08/11/16	0910	Soil	1 x 8 ounce jar	None		X									
3	SS79E-1.5	08/11/16	0912	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS79E-2.5	08/11/16	0913	Soil	1 x 8 ounce jar	None											Hold and Archive
5	SS79F-0.5	08/11/16	0918	Soil	1 x 8 ounce jar	None		X									
6	SS79F-1.5	08/11/16	0920	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS79F-2.5	08/11/16	0922	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS87D-0.5	08/11/16	0934	Soil	1 x 8 ounce jar	None		X									
9	SS87D-0.5DUP	08/11/16	0935	Soil	1 x 8 ounce jar	None		X									
10	SS87D-1.5	08/11/16	0936	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
1 Received By:		Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

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806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381364 Page: 5 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS87D-2.5	08/11/16	~~0910~~ BP. 0937	Soil	1 x 8 ounce jar	None											Hold and Archive
2	SS87E-0.5	08/11/16	0925	Soil	1 x 8 ounce jar	None		X									
3	SS87E-1.5	08/11/16	0926	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS87E-2.5	08/11/16	0927	Soil	1 x 8 ounce jar	None											Hold and Archive
5	SS93D-0.5	08/11/16	0839	Soil	1 x 8 ounce jar	None		X									
6	SS93D-1.5	08/11/16	0841	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS93D-2.5	08/11/16	0843	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS93E-0.5	08/11/16	0831	Soil	1 x 8 ounce jar	None		X									
9	SS93E-1.5	08/11/16	0833	Soil	1 x 8 ounce jar	None											Hold and Archive
10	SS93E-2.5	08/11/16	0835	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
[1] Received By:	[signature]	Tony D	EA	8/11/16 1521
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381364 Page: 6 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS93F-0.5	08/11/16	0808	Soil	1 x 8 ounce jar	None		X									
2	SS93F-1.5	08/11/16	0810	Soil	1 x 8 ounce jar	None											Hold and Archive
3	SS93F-2.5	08/11/16	0812	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS95D-0.5	08/11/16	0802	Soil	1 x 8 ounce jar	None		X									
5	SS95D-1.5	08/11/16	0803	Soil	1 x 8 ounce jar	None											Hold and Archive
6	SS95D-2.5	08/11/16	0804	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS103D-0.5	08/11/16	0729	Soil	1 x 8 ounce jar	None		X									
8	SS103D-1.5	08/11/16	0733	Soil	1 x 8 ounce jar	None											Hold and Archive
9	SS103D-2.5	08/11/16	0735	Soil	1 x 8 ounce jar	None											Hold and Archive
10	SS103E-0.5	08/11/16	0719	Soil	1 x 8 ounce jar	None		X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Rina Patel	Alta	08/11/16
1 Received By:	[signature]	Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

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ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
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Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS103E-0.5DUP	08/11/16	0720	Soil	1 x 8 ounce jar	None		X								
2	SS103E-1.5	08/11/16	0722	Soil	1 x 8 ounce jar	None										Hold and Archive
3	SS103E-2.5	08/11/16	0724	Soil	1 x 8 ounce jar	None										Hold and Archive
4	SS103F-0.5	08/11/16	0708	Soil	1 x 8 ounce jar	None		X								
5	SS103F-1.5	08/11/16	0710	Soil	1 x 8 ounce jar	None										Hold and Archive
6	SS103F-2.5	08/11/16	0712	Soil	1 x 8 ounce jar	None										Hold and Archive
7	EQBL0811-1	08/11/16	1030	water	1 x poly (500 mL)	HNO_3	X	X								
8	EQBL0811-2	08/11/16	1030	water	1 x poly (500 mL)	HNO_3	X	X								
9																
10																

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
1 Received By:	[signature]	Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Alta Environmental Project: Jefferson High School

Date Received: 8/11/16 Sampler's Signature Present: Yes No

Sample(s) received in a cooler? Yes How many? 2 No (skip section 2) Sample Temp (°C):

Sample Temp (°C) from each cooler: #1: 11.6 #2: 12.7 #3: #4:

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information:

Section 2

Was the cooler packed with: X Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other

Cooler Temp (°C): #1: -0.2 #2: -0.2 #3: #4:

Section 3	YES	NO	N/A
Was a COC received?	X		
Were IDs present?	X		
Were sampling dates & times present?	X		
Was a signature present?	X		
Were tests clearly indicated?	X		
Were custody seals present?		X	
If Yes – were they intact?			X
Were all samples sealed in plastic bags?		X	
Did all samples arrive intact? If no, indicate below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were correct containers used for the tests required?	X		
Was a sufficient amount of sample sent for tests indicated?	X		
Was there headspace in VOA vials?			X
Were the containers labeled with correct preservatives?			X
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay department immediately.*			X

Section 4

Explanations/Comments:

Section 5

Was the Project Manager notified via email of discrepancies: Yes No N/A

Was the email sent to:

Project Manager's response:

Completed By: Date: 8/11/16

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Monday, September 12, 2016 2:18 PM
To: Ranjit Clarke
Subject: RE: Thomas Jefferson High School

Hi Ranjit,

Sorry, I hit send too quickly on my last email. SS93D-1.5 at Jefferson High School was collected on 8/11/2016 and is associated with lab report 381364.

Thanks,

Eric Fraske, PE
Project Manager/Senior III

ALTA ENVIRONMENTAL
Expertise to Reduce Your Environmental and Safety Risks

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

From: Eric Fraske
Sent: Monday, September 12, 2016 2:17 PM
To: 'Ranjit Clarke' <Ranjit.Clarke@enthalpy.com>
Subject: Thomas Jefferson High School

Hi Ranjit,

Please analyze sample ss93D-1.5 for lead by method 6010 on a 24-rush schedule.

Thanks,

Eric Fraske, PE
Project Manager/Senior III

ALTA ENVIRONMENTAL
Expertise to Reduce Your Environmental and Safety Risks

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Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Alta Environmental
Address: 3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807
Attn: Eric Fraske

Lab Request: 381364
Report Date: 08/15/2016
Date Received: 08/11/2016
Client ID: 11397

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
381364-001	SS1D-0.5	381364-025	SS68D-0.5 DUP	381364-049	SS93E-1.5
381364-002	SS1D-0.5 DUP	381364-026	SS68D-1.5	381364-050	SS93E-2.5
381364-003	SS1D-1.5	381364-027	SS68D-2.5	381364-051	SS93F-0.5
381364-004	SS1D-2.5	381364-028	SS79D-0.5	381364-052	SS93F-1.5
381364-005	SS2D-0.5	381364-029	SS79D-0.5 DUP	381364-053	SS93F-2.5
381364-006	SS2D-1.5	381364-030	SS79D-1.5	381364-054	SS95D-0.5
381364-007	SS2D-2.5	381364-031	SS79D-2.5	381364-055	SS95D-1.5
381364-008	SS27D-0.5	381364-032	SS79E-0.5	381364-056	SS95D-2.5
381364-009	SS27D-1.5	381364-033	SS79E-1.5	381364-057	SS103D-0.5
381364-010	SS27D-2.5	381364-034	SS79E-2.5	381364-058	SS103D-1.5
381364-011	SS27E-0.5	381364-035	SS79F-0.5	381364-059	SS103D-2.5
381364-012	SS27E-1.5	381364-036	SS79F-1.5	381364-060	SS103E-0.5
381364-013	SS27E-2.5	381364-037	SS79F-2.5	381364-061	SS103E-0.5 DUP
381364-014	SS27F-0.5	381364-038	SS87D-0.5	381364-062	SS103E-1.5
381364-015	SS27F-0.5 DUP	381364-039	SS87D-0.5 DUP	381364-063	SS103E-2.5
381364-016	SS27F-1.5	381364-040	SS87D-1.5	381364-064	SS103F-0.5
381364-017	SS27F-2.5	381364-041	SS87D-2.5	381364-065	SS103F-1.5
381364-018	SS32D-0.5	381364-042	SS87E-0.5	381364-066	SS103F-2.5
381364-019	SS32D-1.5	381364-043	SS87E-1.5	381364-067	EQBL0811-1
381364-020	SS32D-2.5	381364-044	SS87E-2.5	381364-068	EQBL0811-2
381364-021	SS55D-0.5	381364-045	SS93D-0.5		
381364-022	SS55D-1.5	381364-046	SS93D-1.5		
381364-023	SS55D-2.5	381364-047	SS93D-2.5		
381364-024	SS68D-0.5	381364-048	SS93E-0.5		

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:36	Site:			
Sample #:	381364-001	Client Sample #:	SS1D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**15.1**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:36	Site:			
Sample #:	381364-002	Client Sample #:	SS1D-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**23.6**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:38	Site:			
Sample #:	381364-003	Client Sample #:	SS1D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:41	Site:			
Sample #:	381364-004	Client Sample #:	SS1D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:42	Site:			
Sample #:	381364-005	Client Sample #:	SS2D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**117**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:43	Site:			
Sample #:	381364-006	Client Sample #:	SS2D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:44	Site:			
Sample #:	381364-007	Client Sample #:	SS2D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:23	Site:			
Sample #:	381364-008	Client Sample #:	SS27D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**65.2**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:24	Site:			
Sample #:	381364-009	Client Sample #:	SS27D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:26	Site:			
Sample #:	381364-010	Client Sample #:	SS27D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:40	Site:			
Sample #:	381364-011	Client Sample #:	SS27E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**50.3**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:42	Site:			
Sample #:	381364-012	Client Sample #:	SS27E-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:44	Site:			
Sample #:	381364-013	Client Sample #:	SS27E-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:50	Site:			
Sample #:	381364-014	Client Sample #:	SS27F-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**63.8**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169923		
Arsenic	**3.79**	10	0.2	3	mg/Kg		08/12/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:50	Site:			
Sample #:	381364-015	Client Sample #:	SS27F-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**31.7**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169923		
Arsenic	**3.99**	10	0.2	3	mg/Kg		08/12/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:55 **Site:**
Sample #: 381364-016 **Client Sample #:** SS27F-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:57 **Site:**
Sample #: 381364-017 **Client Sample #:** SS27F-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 06:59 **Site:**
Sample #: 381364-018 **Client Sample #:** SS32D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**63.4**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 07:01 **Site:**
Sample #: 381364-019 **Client Sample #:** SS32D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 07:03 **Site:**
Sample #: 381364-020 **Client Sample #:** SS32D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 10:06 **Site:**
Sample #: 381364-021 **Client Sample #:** SS55D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169923		
Arsenic	**2.39 J**	10	0.2	3	mg/Kg		08/12/16	MH	J

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 10:08 **Site:**
Sample #: 381364-022 **Client Sample #:** SS55D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 10:10 **Site:**
Sample #: 381364-023 **Client Sample #:** SS55D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 10:14 **Site:**
Sample #: 381364-024 **Client Sample #:** SS68D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**241**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 10:15 **Site:**
Sample #: 381364-025 **Client Sample #:** SS68D-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**31.8**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 10:17 **Site:**
Sample #: 381364-026 **Client Sample #:** SS68D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 10:18 **Site:**
Sample #: 381364-027 **Client Sample #:** SS68D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:12 **Site:**
Sample #: 381364-028 **Client Sample #:** SS79D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**57.1**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:13 **Site:**
Sample #: 381364-029 **Client Sample #:** SS79D-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**121**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:14 **Site:**
Sample #: 381364-030 **Client Sample #:** SS79D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:16 **Site:**
Sample #: 381364-031 **Client Sample #:** SS79D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:10 **Site:**
Sample #: 381364-032 **Client Sample #:** SS79E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**49.8**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:12 **Site:**
Sample #: 381364-033 **Client Sample #:** SS79E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:13 **Site:**
Sample #: 381364-034 **Client Sample #:** SS79E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:18 **Site:**
Sample #: 381364-035 **Client Sample #:** SS79F-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**88.2**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:20 **Site:**
Sample #: 381364-036 **Client Sample #:** SS79F-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:22 **Site:**
Sample #: 381364-037 **Client Sample #:** SS79F-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:34 **Site:**
Sample #: 381364-038 **Client Sample #:** SS87D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**108**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 09:35 **Site:**
Sample #: 381364-039 **Client Sample #:** SS87D-0.5 DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**40.2**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 09:36	Site:			
Sample #:	381364-040	Client Sample #:	SS87D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 09:37	Site:			
Sample #:	381364-041	Client Sample #:	SS87D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 09:25	Site:			
Sample #:	381364-042	Client Sample #:	SS87E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169905
Lead	**57.0**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 09:26	Site:			
Sample #:	381364-043	Client Sample #:	SS87E-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 09:27	Site:			
Sample #:	381364-044	Client Sample #:	SS87E-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:39	Site:			
Sample #:	381364-045	Client Sample #:	SS93D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID:		QC1169905
Lead	**180**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:41	Site:			
Sample #:	381364-046	Client Sample #:	SS93D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:43	Site:			
Sample #:	381364-047	Client Sample #:	SS93D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:31 **Site:**
Sample #: 381364-048 **Client Sample #:** SS93E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**74.6**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:33 **Site:**
Sample #: 381364-049 **Client Sample #:** SS93E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:35 **Site:**
Sample #: 381364-050 **Client Sample #:** SS93E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:08 **Site:**
Sample #: 381364-051 **Client Sample #:** SS93F-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169905		
Lead	**22.3**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:10 **Site:**
Sample #: 381364-052 **Client Sample #:** SS93F-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:12 **Site:**
Sample #: 381364-053 **Client Sample #:** SS93F-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:02 **Site:**
Sample #: 381364-054 **Client Sample #:** SS95D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169907		
Lead	**31.8**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 08/11/2016 08:03 **Site:**
Sample #: 381364-055 **Client Sample #:** SS95D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 08:04	Site:			
Sample #:	381364-056	Client Sample #:	SS95D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:29	Site:			
Sample #:	381364-057	Client Sample #:	SS103D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169907		
Lead	**112**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:33	Site:			
Sample #:	381364-058	Client Sample #:	SS103D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:35	Site:			
Sample #:	381364-059	Client Sample #:	SS103D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:19	Site:			
Sample #:	381364-060	Client Sample #:	SS103E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169907		
Lead	**56.2**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:20	Site:			
Sample #:	381364-061	Client Sample #:	SS103E-0.5 DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169907		
Lead	**84.3**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:22	Site:			
Sample #:	381364-062	Client Sample #:	SS103E-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	08/11/2016 07:24	Site:			
Sample #:	381364-063	Client Sample #:	SS103E-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/11/2016 07:08	**Site:**			
Sample #:	**381364-064**	**Client Sample #:**	SS103F-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1169907		
Lead	**63.6**	1	0.32	0.5	mg/Kg	08/11/16	08/12/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/11/2016 07:10	**Site:**			
Sample #:	**381364-065**	**Client Sample #:**	SS103F-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/11/2016 07:12	**Site:**			
Sample #:	**381364-066**	**Client Sample #:**	SS103F-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/11/2016 10:30	**Site:**			
Sample #:	**381364-067**	**Client Sample #:**	EQBL0811-1	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169917		
Lead	ND	1	0.004	0.005	mg/L	08/11/16	08/12/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169918		
Arsenic	ND	1	0.13	2	ug/L	08/12/16	08/15/16	MH	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	08/11/2016 10:30	**Site:**			
Sample #:	**381364-068**	**Client Sample #:**	EQBL0811-2	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169917		
Lead	ND	1	0.004	0.005	mg/L	08/11/16	08/12/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1169918		
Arsenic	ND	1	0.13	2	ug/L	08/12/16	08/15/16	MH	

QCBatchID:	QC1169905	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/12/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169905MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169905LCS1											
Lead	100		97.3		mg/Kg	97			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169905MS1, QC1169905MSD1												**Source: 381364-001**
Lead	15.1	100	100	118	112	mg/Kg	103	97	5.2	75-125	20	

QCBatchID:	QC1169907	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	08/12/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169907MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169907LCS1											
Lead	100		90.4		mg/Kg	90			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169907MS1, QC1169907MSD1												**Source: 381364-054**
Lead	31.8	100	100	128	138	mg/Kg	96	106	7.5	75-125	20	

QCBatchID: QC1169917	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Water	Analyzed: 08/12/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169917MB1					
Lead	ND	mg/L	0.004	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169917LCS1											
Lead	2		1.88		mg/L	94			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169917MS1, QC1169917MSD1												**Source: 381364-067**
Lead	ND	1	1	0.965	0.978	mg/L	97	98	1.3	75-125	20	

QCBatchID: QC1169918	Analyst: mhuo	Method: EPA 6020
Matrix: Water	Analyzed: 08/12/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169918MB1					
Arsenic	ND	ug/L	0.13	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169918LCS1											
Arsenic	50		51.4		ug/L	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169918MS1, QC1169918MSD1												**Source: 381364-068**
Arsenic	ND	50	50	50.3	50.4	ug/L	101	101	0.2	75-125	20	

QCBatchID: QC1169923	Analyst: mhuo	Method: EPA 6020
Matrix: Solid	Analyzed: 08/12/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1169923MB1					
Arsenic	ND	mg/Kg	0.02	0.3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169923LCS1											
Arsenic	50		51.4		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1169923MS1, QC1169923MSD1												**Source: 381364-014**
Arsenic	3.79	50	50	50.2	51.9	mg/Kg	93	104	3.3	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381364 Page: 1 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS1D-0.5	08/11/16	0736	Soil	1 x 8 ounce jar	None		X									
2	SS1D-0.5DUP	08/11/16	0736	Soil	1 x 8 ounce jar	None		X									
3	SS1D-1.5	08/11/16	0738	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS1D-2.5	08/11/16	0741	Soil	1 x 8 ounce jar	None											Hold and Archive
5	SS2D-0.5	08/11/16	0742	Soil	1 x 8 ounce jar	None		X									
6	SS2D-1.5	08/11/16	0743	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS2D-2.5	08/11/16	0744	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS27D-0.5	08/11/16	0823	Soil	1 x 8 ounce jar	None		X									
9	SS27D-1.5	08/11/16	0824	Soil	1 x 8 ounce jar	None											Hold and Archive
10	SS27D-2.5	08/11/16	0826	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
1 Received By:	[signature]	Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 301364 Page: 2 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS27E-0.5	08/11/16	0840	Soil	1 x 8 ounce jar	None		X									
2	SS27E-1.5	08/11/16	0842	Soil	1 x 8 ounce jar	None											Hold and Archive
3	SS27E-2.5	08/11/16	0844	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS27F-0.5	08/11/16	0850	Soil	1 x 8 ounce jar	None	X	X									
5	SS27F-0.5DUP	08/11/16	0850	Soil	1 x 8 ounce jar	None	X	X									
6	SS27F-1.5	08/11/16	0855	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS27F-2.5	08/11/16	0857	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS32D-0.5	08/11/16	0659	Soil	1 x 8 ounce jar	None		X									
9	SS32D-1.5	08/11/16	0701	Soil	1 x 8 ounce jar	None											Hold and Archive
10	SS32D-2.5	08/11/16	0703	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Bina Patel	Alta	08/11/16
1 Received By:	[illegible]	Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381364 Page: 3 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

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Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS55D-0.5	08/11/16	1006	Soil	1 x 8 ounce jar	None	X										
2	SS55D-1.5	08/11/16	1008	Soil	1 x 8 ounce jar	None											Hold and Archive
3	SS55D-2.5	08/11/16	1010	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS68D-0.5	08/11/16	1014	Soil	1 x 8 ounce jar	None		X									
5	SS68D-0.5DUP	08/11/16	1015	Soil	1 x 8 ounce jar	None		X									
6	SS68D-1.5	08/11/16	1017	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS68D-2.5	08/11/16	1018	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS79D-0.5	08/11/16	0912	Soil	1 x 8 ounce jar	None		X									
9	SS79D-0.5DUP	08/11/16	0913	Soil	1 x 8 ounce jar	None		X									
10	SS79D-1.5	08/11/16	0914	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
[1] Received By:	[signature]	Tony D	EA	08/11/16 1521
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

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Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS79D-2.5	08/11/16	0916	Soil	1 x 8 ounce jar	None											Hold and Archive
2	SS79E-0.5	08/11/16	0910	Soil	1 x 8 ounce jar	None		X									
3	SS79E-1.5	08/11/16	0912	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS79E-2.5	08/11/16	0913	Soil	1 x 8 ounce jar	None											Hold and Archive
5	SS79F-0.5	08/11/16	0918	Soil	1 x 8 ounce jar	None		X									
6	SS79F-1.5	08/11/16	0920	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS79F-2.5	08/11/16	0922	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS87D-0.5	08/11/16	0934	Soil	1 x 8 ounce jar	None		X									
9	SS87D-0.5DUP	08/11/16	0935	Soil	1 x 8 ounce jar	None		X									
10	SS87D-1.5	08/11/16	0936	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
1 Received By:		Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

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806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381364 Page: 5 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS87D-2.5	08/11/16	~~0910~~ BP. 0937	Soil	1 x 8 ounce jar	None											Hold and Archive
2	SS87E-0.5	08/11/16	0925	Soil	1 x 8 ounce jar	None		X									
3	SS87E-1.5	08/11/16	0926	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS87E-2.5	08/11/16	0927	Soil	1 x 8 ounce jar	None											Hold and Archive
5	SS93D-0.5	08/11/16	0839	Soil	1 x 8 ounce jar	None		X									
6	SS93D-1.5	08/11/16	0841	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS93D-2.5	08/11/16	0843	Soil	1 x 8 ounce jar	None											Hold and Archive
8	SS93E-0.5	08/11/16	0831	Soil	1 x 8 ounce jar	None		X									
9	SS93E-1.5	08/11/16	0833	Soil	1 x 8 ounce jar	None											Hold and Archive
10	SS93E-2.5	08/11/16	0835	Soil	1 x 8 ounce jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
[1] Received By:	[signature]	Tony D	EA	8/11/16 1521
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 381364 Page: 6 of 7	Standard: ; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: X ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS93F-0.5	08/11/16	0808	Soil	1 x 8 ounce jar	None		X									
2	SS93F-1.5	08/11/16	0810	Soil	1 x 8 ounce jar	None											Hold and Archive
3	SS93F-2.5	08/11/16	0812	Soil	1 x 8 ounce jar	None											Hold and Archive
4	SS95D-0.5	08/11/16	0802	Soil	1 x 8 ounce jar	None		X									
5	SS95D-1.5	08/11/16	0803	Soil	1 x 8 ounce jar	None											Hold and Archive
6	SS95D-2.5	08/11/16	0804	Soil	1 x 8 ounce jar	None											Hold and Archive
7	SS103D-0.5	08/11/16	0729	Soil	1 x 8 ounce jar	None		X									
8	SS103D-1.5	08/11/16	0733	Soil	1 x 8 ounce jar	None											Hold and Archive
9	SS103D-2.5	08/11/16	0735	Soil	1 x 8 ounce jar	None											Hold and Archive
10	SS103E-0.5	08/11/16	0719	Soil	1 x 8 ounce jar	None		X									

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Rina Patel	Alta	08/11/16
1 Received By:	[signature]	Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: Page: 7 of 7	Standard: ☐ 4 Day: ☐ 3 Day: ☐ 2 Day: ☐ 1 Day: X Same Day: ☐
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS103E-0.5DUP	08/11/16	0720	Soil	1 x 8 ounce jar	None		X								
2	SS103E-1.5	08/11/16	0722	Soil	1 x 8 ounce jar	None										Hold and Archive
3	SS103E-2.5	08/11/16	0724	Soil	1 x 8 ounce jar	None										Hold and Archive
4	SS103F-0.5	08/11/16	0708	Soil	1 x 8 ounce jar	None		X								
5	SS103F-1.5	08/11/16	0710	Soil	1 x 8 ounce jar	None										Hold and Archive
6	SS103F-2.5	08/11/16	0712	Soil	1 x 8 ounce jar	None										Hold and Archive
7	EQBL0811-1	08/11/16	1030	water	1 x poly (500 mL)	HNO_3	X	X								
8	EQBL0811-2	08/11/16	1030	water	1 x poly (500 mL)	HNO_3	X	X								
9																
10																

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Bina Patel	Alta	08/11/16
1 Received By:	[signature]	Tony D	EA	8/11/16 1521
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Alta Environmental Project: Jefferson High School

Date Received: 8/11/16 Sampler's Signature Present: Yes No

Sample(s) received in a cooler? Yes How many? 2 No (skip section 2) Sample Temp (°C):

Sample Temp (°C) from each cooler: #1: 11.6 #2: 12.7 #3: #4:

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information:

Section 2

Was the cooler packed with: X Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other

Cooler Temp (°C): #1: -0.2 #2: -0.2 #3: #4:

Section 3	YES	NO	N/A
Was a COC received?	X		
Were IDs present?	X		
Were sampling dates & times present?	X		
Was a signature present?	X		
Were tests clearly indicated?	X		
Were custody seals present?		X	
If Yes – were they intact?			X
Were all samples sealed in plastic bags?		X	
Did all samples arrive intact? If no, indicate below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were correct containers used for the tests required?	X		
Was a sufficient amount of sample sent for tests indicated?	X		
Was there headspace in VOA vials?			X
Were the containers labeled with correct preservatives?			X
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay department immediately.*			X

Section 4

Explanations/Comments:

Section 5

Was the Project Manager notified via email of discrepancies: Yes No N/A

Was the email sent to:

Project Manager's response:

Completed By: Date: 8/11/16

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Formerly Associated Labs
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Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	384618
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	12/02/2016
		Date Received:	11/21/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Thomas Jefferson High School
LAUS-16-6101

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
384618-001	SS103G-0.5	384618-025	SS93G-0.5	384618-049	SS68F-0.5
384618-002	SS103G-1.5	384618-026	SS93G-1.5	384618-050	SS68F-1.5
384618-003	SS103G-2.5	384618-027	SS93G-2.5	384618-051	SS68F-2.5
384618-004	SS103H-0.5	384618-028	SS93H-0.5	384618-052	SS68G-0.5
384618-005	SS103H-1.5	384618-029	SS93H-1.5	384618-053	SS68G-1.5
384618-006	SS103H-2.5	384618-030	SS93H-2.5	384618-054	SS68G-2.5
384618-007	SS103I-0.5	384618-031	SS27G-0.5	384618-055	SS68H-0.5
384618-008	SS103I-1.5	384618-032	SS27G-1.5	384618-056	SS68H-1.5
384618-009	SS103I-2.5	384618-033	SS27G-2.5	384618-057	SS68H-2.5
384618-010	SS103J-0.5	384618-034	SS27I-0.5	384618-058	SS79G-0.5
384618-011	SS103J-1.5	384618-035	SS27I-1.5	384618-059	SS79G-1.5
384618-012	SS103J-2.5	384618-036	SS27I-2.5	384618-060	SS79G-2.5
384618-013	SS103K-0.5	384618-037	SS27J-0.5	384618-061	SS79H-0.5
384618-014	SS103K-1.5	384618-038	SS27J-1.5	384618-062	SS79H-1.5
384618-015	SS103K-2.5	384618-039	SS27J-2.5	384618-063	SS79H-2.5
384618-016	SS103L-0.5	384618-040	SS27K-0.5	384618-064	SS87E-0.5
384618-017	SS103L-1.5	384618-041	SS27K-1.5	384618-065	SS87E-1.5
384618-018	SS103L-2.5	384618-042	SS27K-2.5	384618-066	SS87E-2.5
384618-019	SS96D-0.5	384618-043	SS27L-0.5	384618-067	SS87F-0.5
384618-020	SS96D-1.5	384618-044	SS27L-1.5	384618-068	SS87F-1.5
384618-021	SS96D-2.5	384618-045	SS27L-2.5	384618-069	SS87F-2.5
384618-022	SS96E-0.5	384618-046	SS68E-0.5	384618-070	SS87G-0.5
384618-023	SS96E-1.5	384618-047	SS68E-1.5	384618-071	SS87G-1.5
384618-024	SS96E-2.5	384618-048	SS68E-2.5	384618-072	SS87G-2.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:28 **Site:**
Sample #: 384618-001 **Client Sample #:** SS103G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**145**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:28 **Site:**
Sample #: 384618-002 **Client Sample #:** SS103G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:28 **Site:**
Sample #: 384618-003 **Client Sample #:** SS103G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:30 **Site:**
Sample #: 384618-004 **Client Sample #:** SS103H-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:30 **Site:**
Sample #: 384618-005 **Client Sample #:** SS103H-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:30 **Site:**
Sample #: 384618-006 **Client Sample #:** SS103H-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:21 **Site:**
Sample #: 384618-007 **Client Sample #:** SS103I-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**92.0**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:21 **Site:**
Sample #: 384618-008 **Client Sample #:** SS103I-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:21	Site:			
Sample #:	384618-009	Client Sample #:	SS103I-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:23	Site:			
Sample #:	384618-010	Client Sample #:	SS103J-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:23	Site:			
Sample #:	384618-011	Client Sample #:	SS103J-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:23	Site:			
Sample #:	384618-012	Client Sample #:	SS103J-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:28	Site:			
Sample #:	384618-013	Client Sample #:	SS103K-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**68.0**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:29	Site:			
Sample #:	384618-014	Client Sample #:	SS103K-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:29	Site:			
Sample #:	384618-015	Client Sample #:	SS103K-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:27	Site:			
Sample #:	384618-016	Client Sample #:	SS103L-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:27 **Site:**
Sample #: 384618-017 **Client Sample #:** SS103L-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:27 **Site:**
Sample #: 384618-018 **Client Sample #:** SS103L-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-019 **Client Sample #:** SS96D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**318**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-020 **Client Sample #:** SS96D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-021 **Client Sample #:** SS96D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-022 **Client Sample #:** SS96E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-023 **Client Sample #:** SS96E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-024 **Client Sample #:** SS96E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:45 **Site:**
Sample #: 384618-025 **Client Sample #:** SS93G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**60.8**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:46 **Site:**
Sample #: 384618-026 **Client Sample #:** SS93G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:46 **Site:**
Sample #: 384618-027 **Client Sample #:** SS93G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:44 **Site:**
Sample #: 384618-028 **Client Sample #:** SS93H-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:45 **Site:**
Sample #: 384618-029 **Client Sample #:** SS93H-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:45 **Site:**
Sample #: 384618-030 **Client Sample #:** SS93H-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:49 **Site:**
Sample #: 384618-031 **Client Sample #:** SS27G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**268**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172947		
Arsenic	**10.1**	20	0.4	6	mg/Kg	11/30/16	11/30/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:53 **Site:**
Sample #: 384618-032 **Client Sample #:** SS27G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:53 **Site:**
Sample #: 384618-033 **Client Sample #:** SS27G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:38 **Site:**
Sample #: 384618-034 **Client Sample #:** SS27I-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**58.5**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:38 **Site:**
Sample #: 384618-035 **Client Sample #:** SS27I-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:38 **Site:**
Sample #: 384618-036 **Client Sample #:** SS27I-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:40 **Site:**
Sample #: 384618-037 **Client Sample #:** SS27J-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:41 **Site:**
Sample #: 384618-038 **Client Sample #:** SS27J-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:42 **Site:**
Sample #: 384618-039 **Client Sample #:** SS27J-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:35	Site:			
Sample #:	384618-040	Client Sample #:	SS27K-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:38	Site:			
Sample #:	384618-041	Client Sample #:	SS27K-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:40	Site:			
Sample #:	384618-042	Client Sample #:	SS27K-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:41	Site:			
Sample #:	384618-043	Client Sample #:	SS27L-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**24.4**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:41	Site:			
Sample #:	384618-044	Client Sample #:	SS27L-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:42	Site:			
Sample #:	384618-045	Client Sample #:	SS27L-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:19	Site:			
Sample #:	384618-046	Client Sample #:	SS68E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**58.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:20	Site:			
Sample #:	384618-047	Client Sample #:	SS68E-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:21	**Site:**			
Sample #:	**384618-048**	**Client Sample #:**	SS68E-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:21	**Site:**			
Sample #:	**384618-049**	**Client Sample #:**	SS68F-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:24	**Site:**			
Sample #:	**384618-050**	**Client Sample #:**	SS68F-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:25	**Site:**			
Sample #:	**384618-051**	**Client Sample #:**	SS68F-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:24	**Site:**			
Sample #:	**384618-052**	**Client Sample #:**	SS68G-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**166**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:24	**Site:**			
Sample #:	**384618-053**	**Client Sample #:**	SS68G-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:25	**Site:**			
Sample #:	**384618-054**	**Client Sample #:**	SS68G-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:27	**Site:**			
Sample #:	**384618-055**	**Client Sample #:**	SS68H-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:27	Site:			
Sample #:	384618-056	Client Sample #:	SS68H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:28	Site:			
Sample #:	384618-057	Client Sample #:	SS68H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:41	Site:			
Sample #:	384618-058	Client Sample #:	SS79G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**101**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:42	Site:			
Sample #:	384618-059	Client Sample #:	SS79G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:42	Site:			
Sample #:	384618-060	Client Sample #:	SS79G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:32	Site:			
Sample #:	384618-061	Client Sample #:	SS79H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:33	Site:			
Sample #:	384618-062	Client Sample #:	SS79H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:34	Site:			
Sample #:	384618-063	Client Sample #:	SS79H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 09:19 **Site:**
Sample #: 384618-064 **Client Sample #:** SS87E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**97.1**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:20 **Site:**
Sample #: 384618-065 **Client Sample #:** SS87E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 09:20 **Site:**
Sample #: 384618-066 **Client Sample #:** SS87E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 09:15 **Site:**
Sample #: 384618-067 **Client Sample #:** SS87F-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 09:15 **Site:**
Sample #: 384618-068 **Client Sample #:** SS87F-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 09:15 **Site:**
Sample #: 384618-069 **Client Sample #:** SS87F-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 09:28 **Site:**
Sample #: 384618-070 **Client Sample #:** SS87G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**99.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 09:29 **Site:**
Sample #: 384618-071 **Client Sample #:** SS87G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:29	Site:			
Sample #:	384618-072	Client Sample #:	SS87G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:19	Site:			
Sample #:	384618-073	Client Sample #:	SS87H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:20	Site:			
Sample #:	384618-074	Client Sample #:	SS87H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:20	Site:			
Sample #:	384618-075	Client Sample #:	SS87H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:00	Site:			
Sample #:	384618-076	Client Sample #:	SS80D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**32.3**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:02	Site:			
Sample #:	384618-077	Client Sample #:	SS80D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:02	Site:			
Sample #:	384618-078	Client Sample #:	SS80D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:02	Site:			
Sample #:	384618-079	Client Sample #:	SS80E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:21 **Site:**
Sample #: 384618-080 **Client Sample #:** SS77D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**848**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:22 **Site:**
Sample #: 384618-081 **Client Sample #:** SS77D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:22 **Site:**
Sample #: 384618-082 **Client Sample #:** SS77D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:19 **Site:**
Sample #: 384618-083 **Client Sample #:** SS77G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**165**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:19 **Site:**
Sample #: 384618-084 **Client Sample #:** SS77G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:19 **Site:**
Sample #: 384618-085 **Client Sample #:** SS77G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-086 **Client Sample #:** SS76D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**54.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-087 **Client Sample #:** SS76D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-088 **Client Sample #:** SS76D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:21 **Site:**
Sample #: 384618-089 **Client Sample #:** SS76E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:24 **Site:**
Sample #: 384618-090 **Client Sample #:** SS76E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:25 **Site:**
Sample #: 384618-091 **Client Sample #:** SS76E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:45 **Site:**
Sample #: 384618-092 **Client Sample #:** SS74D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**43.1**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:46 **Site:**
Sample #: 384618-093 **Client Sample #:** SS74D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:47 **Site:**
Sample #: 384618-094 **Client Sample #:** SS74D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:38 **Site:**
Sample #: 384618-095 **Client Sample #:** SS70F-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**109**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:38	Site:			
Sample #:	384618-096	Client Sample #:	SS70F-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:39	Site:			
Sample #:	384618-097	Client Sample #:	SS70F-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:29	Site:			
Sample #:	384618-098	Client Sample #:	SS70G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:29	Site:			
Sample #:	384618-099	Client Sample #:	SS70G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:30	Site:			
Sample #:	384618-100	Client Sample #:	SS70G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:35	Site:			
Sample #:	384618-101	Client Sample #:	SS70H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**78.7**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:36	Site:			
Sample #:	384618-102	Client Sample #:	SS70H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:37	Site:			
Sample #:	384618-103	Client Sample #:	SS70H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:43	Site:			
Sample #:	384618-104	Client Sample #:	SS70I-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:44	Site:			
Sample #:	384618-105	Client Sample #:	SS70I-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:45	Site:			
Sample #:	384618-106	Client Sample #:	SS70I-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:29	Site:			
Sample #:	384618-107	Client Sample #:	SS103K-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**81.6**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:45	Site:			
Sample #:	384618-108	Client Sample #:	SS93G-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**25.3**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:50	Site:			
Sample #:	384618-109	Client Sample #:	SS27G-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**33.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172947		
Arsenic	**9.34**	20	0.4	6	mg/Kg	11/30/16	11/30/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:19	Site:			
Sample #:	384618-110	Client Sample #:	SS87E-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**85.4**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-111 **Client Sample #:** SS76D-0.5DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID: QC1172941		
Lead	**50.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:21 **Site:**
Sample #: 384618-112 **Client Sample #:** SS77D-0.5DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID: QC1172941		
Lead	**242**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:00 **Site:**
Sample #: 384618-113 **Client Sample #:** SS80D-0.5DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID: QC1172941		
Lead	**127**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:35 **Site:**
Sample #: 384618-114 **Client Sample #:** SS70H-0.5DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID: QC1172941		
Lead	**65.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:19 **Site:**
Sample #: 384618-115 **Client Sample #:** SS68E-0.5DUP **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B							QCBatchID: QC1172941		
Lead	**53.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Water **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:40 **Site:**
Sample #: 384618-116 **Client Sample #:** EB112116A **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3010A							QCBatchID: QC1172781		
Lead	ND	1	0.004	0.005	mg/L	11/23/16	11/23/16	KLN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3010A							QCBatchID: QC1172783		
Arsenic	ND	1	0.13	2	ug/L	11/23/16	11/23/16	MH	

Matrix: Water **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:40 **Site:**
Sample #: 384618-117 **Client Sample #:** EB112116B **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3010A							QCBatchID: QC1172781		
Lead	ND	1	0.004	0.005	mg/L	11/23/16	11/23/16	KLN	
Method: EPA 6020 *NELAC* Prep Method: EPA 3010A							QCBatchID: QC1172783		
Arsenic	ND	1	0.13	2	ug/L	11/23/16	11/23/16	MH	

QCBatchID: QC1172781	Analyst: dswafford	Method: EPA 6010B
Matrix: Water	Analyzed: 11/23/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172781MB1					
Arsenic	ND	mg/L	0.004	0.01	
Lead	ND	mg/L	0.004	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172781LCS1											
Arsenic	2		1.79		mg/L	90			80-120		
Lead	2		1.76		mg/L	88			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172781MS1, QC1172781MSD1												**Source: 384618-116**
Arsenic	ND	1	1	0.964	0.887	mg/L	96	89	8.3	75-125	20	
Lead	ND	1	1	0.944	0.877	mg/L	94	88	7.4	75-125	20	

QCBatchID: QC1172783	Analyst: dswafford	Method: EPA 6020
Matrix: Water	Analyzed: 11/23/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172783MB1					
Arsenic	ND	ug/L	0.13	2	
Copper	ND	ug/L	0.11	3	
Lead	ND	ug/L	0.1	5	
Zinc	**2.62 J**	ug/L	0.16	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172783LCS1											
Arsenic	50		52.9		ug/L	106			80-120		
Copper	50		51.6		ug/L	103			80-120		
Lead	50		50.6		ug/L	101			80-120		
Zinc	50		57.3		ug/L	115			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172783MS1, QC1172783MSD1												**Source: 384404-054**
Arsenic	ND	50	50	52.5	53.1	ug/L	105	106	1.1	75-125	20	
Copper	1.66	50	50	52.8	53.1	ug/L	102	103	0.6	75-125	20	
Lead	0.2	50	50	52.5	53.6	ug/L	105	107	2.1	75-125	20	
Zinc	80.9	50	50	132	138	ug/L	102	114	4.4	75-125	20	

QCBatchID: QC1172940	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172940MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940LCS1											
Antimony	100		95.6		mg/Kg	96			80-120		
Arsenic	100		95.3		mg/Kg	95			80-120		
Barium	100		106		mg/Kg	106			80-120		
Beryllium	100		106		mg/Kg	106			80-120		
Cadmium	100		99.5		mg/Kg	100			80-120		
Chromium	100		106		mg/Kg	106			80-120		
Cobalt	100		108		mg/Kg	108			80-120		
Copper	100		108		mg/Kg	108			80-120		
Lead	100		102		mg/Kg	102			80-120		
Molybdenum	100		90.8		mg/Kg	91			80-120		
Nickel	100		106		mg/Kg	106			80-120		
Selenium	100		93.6		mg/Kg	94			80-120		
Silver	100		98.9		mg/Kg	99			80-120		
Thallium	100		97.4		mg/Kg	97			80-120		
Vanadium	100		109		mg/Kg	109			80-120		
Zinc	100		105		mg/Kg	105			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940MS1, QC1172940MSD1												**Source: 384593-001**
Antimony	2.32	100	100	34.8	38.3	mg/Kg	32	36	9.6	75-125	20	M
Arsenic	107	100	100	217	218	mg/Kg	110	111	0.5	75-125	20	
Barium	654	100	100	915	823	mg/Kg	261	169	10.6	75-125	20	NC
Beryllium	ND	100	100	95.2	95.9	mg/Kg	95	96	0.7	75-125	20	
Cadmium	5.23	100	100	105	104	mg/Kg	100	99	1.0	75-125	20	
Chromium	13.0	100	100	109	108	mg/Kg	96	95	0.9	75-125	20	
Cobalt	27.4	100	100	119	120	mg/Kg	92	93	0.8	75-125	20	
Copper	1500	100	100	1880	1710	mg/Kg	380	210	9.5	75-125	20	NC
Lead	68.9	100	100	158	157	mg/Kg	89	88	0.6	75-125	20	

QCBatchID: QC1172940	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940MS1, QC1172940MSD1											**Source:**	**384593-001**
Molybdenum	3.59	100	100	98.4	98.9	mg/Kg	95	95	0.5	75-125	20	
Nickel	2.63	100	100	90.6	91.5	mg/Kg	88	89	1.0	75-125	20	
Selenium	20.9	100	100	114	113	mg/Kg	93	92	0.9	75-125	20	
Silver	1.23	100	100	97.6	96.7	mg/Kg	96	95	0.9	75-125	20	
Thallium	0.95	100	100	96.5	95.0	mg/Kg	96	94	1.6	75-125	20	
Vanadium	21.8	100	100	124	122	mg/Kg	102	100	1.6	75-125	20	
Zinc	4120	100	100	4390	4410	mg/Kg	270	290	0.5	75-125	20	NC

QCBatchID: QC1172941	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172941MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941LCS1											
Antimony	100		101		mg/Kg	101			80-120		
Arsenic	100		99.8		mg/Kg	100			80-120		
Barium	100		103		mg/Kg	103			80-120		
Beryllium	100		102		mg/Kg	102			80-120		
Cadmium	100		99.4		mg/Kg	99			80-120		
Chromium	100		104		mg/Kg	104			80-120		
Cobalt	100		109		mg/Kg	109			80-120		
Copper	100		104		mg/Kg	104			80-120		
Lead	100		102		mg/Kg	102			80-120		
Molybdenum	100		96.1		mg/Kg	96			80-120		
Nickel	100		108		mg/Kg	108			80-120		
Selenium	100		95.6		mg/Kg	96			80-120		
Silver	100		101		mg/Kg	101			80-120		
Thallium	100		104		mg/Kg	104			80-120		
Vanadium	100		104		mg/Kg	104			80-120		
Zinc	100		103		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941MS1, QC1172941MSD1												**Source: 384618-101**
Antimony	ND	100	100	27.7	23.9	mg/Kg	30	26	14.7	75-125	20	M
Arsenic	4.72	100	100	101	97.0	mg/Kg	96	92	4.0	75-125	20	
Barium	92.4	100	100	194	188	mg/Kg	102	96	3.1	75-125	20	
Beryllium	ND	100	100	98.2	91.4	mg/Kg	100	93	7.2	75-125	20	
Cadmium	0.55	100	100	93.6	90.0	mg/Kg	93	89	3.9	75-125	20	
Chromium	13.5	100	100	110	108	mg/Kg	97	95	1.8	75-125	20	
Cobalt	7.15	100	100	106	101	mg/Kg	99	94	4.8	75-125	20	
Copper	20.0	100	100	124	117	mg/Kg	104	97	5.8	75-125	20	
Lead	78.7	100	100	169	175	mg/Kg	90	96	3.5	75-125	20	

QCBatchID: QC1172941	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941MS1, QC1172941MSD1												**Source: 384618-101**
Molybdenum	ND	100	100	87.4	82.1	mg/Kg	87	82	6.3	75-125	20	
Nickel	10.5	100	100	108	103	mg/Kg	98	93	4.7	75-125	20	
Selenium	ND	100	100	60.7	55.2	mg/Kg	91	85	9.5	75-125	20	
Silver	ND	100	100	95.5	88.8	mg/Kg	95	89	7.3	75-125	20	
Thallium	ND	100	100	89.8	86.8	mg/Kg	92	89	3.4	75-125	20	
Vanadium	26.8	100	100	127	122	mg/Kg	100	95	4.0	75-125	20	
Zinc	135	100	100	233	245	mg/Kg	98	110	5.0	75-125	20	

QCBatchID: QC1172947	Analyst: dswafford	Method: EPA 6020
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result		Units	MDL	RDL	Notes
QC1172947MB1						
Antimony	ND		mg/Kg	0.06	0.5	
Arsenic	**0.025**	**J**	mg/Kg	0.02	0.3	
Barium	**0.033**	**J**	mg/Kg	0.02	0.5	
Beryllium	ND		mg/Kg	0.02	0.5	
Cadmium	ND		mg/Kg	0.02	0.5	
Chromium	ND		mg/Kg	0.02	0.5	
Cobalt	ND		mg/Kg	0.02	0.5	
Copper	ND		mg/Kg	0.02	0.5	
Lead	**0.351**	**J**	mg/Kg	0.02	0.5	
Molybdenum	**0.043**	**J**	mg/Kg	0.02	0.5	
Nickel	ND		mg/Kg	0.04	0.5	
Selenium	**0.078**	**J**	mg/Kg	0.04	0.5	
Silver	ND		mg/Kg	0.02	0.5	
Thallium	ND		mg/Kg	0.02	0.5	
Vanadium	ND		mg/Kg	0.02	0.5	
Zinc	**2.60**		mg/Kg	0.09	1	B

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172947LCS1											
Antimony	50		52.5		mg/Kg	105			80-120		
Arsenic	50		52.6		mg/Kg	105			80-120		
Barium	50		51.6		mg/Kg	103			80-120		
Beryllium	50		51.9		mg/Kg	104			80-120		
Cadmium	50		52.5		mg/Kg	105			80-120		
Chromium	50		51.5		mg/Kg	103			80-120		
Cobalt	50		50.4		mg/Kg	101			80-120		
Copper	50		51.5		mg/Kg	103			80-120		
Lead	50		53.5		mg/Kg	107			80-120		
Molybdenum	50		52.2		mg/Kg	104			80-120		
Nickel	50		50.6		mg/Kg	101			80-120		
Selenium	50		52.2		mg/Kg	104			80-120		
Silver	50		49.3		mg/Kg	99			80-120		
Thallium	50		51.3		mg/Kg	103			80-120		
Vanadium	50		52.3		mg/Kg	105			80-120		
Zinc	50		52.4		mg/Kg	105			80-120		

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 1 of 17	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS2E-0.5~~ EF	11/21/16	NA	Soil	1-8oz Jar	None		X								NOT COLLECTED (NC)
2	~~SS2E-1.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
3	~~SS2E-2.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
4	~~SS2F-0.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
5	~~SS2F-1.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
6	~~SS2F-2.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
7	SS103G-0.5	11/21/16	08:28	Soil	1-8oz Jar	None		X								
8	SS103G-1.5	11/21/16	08:28	Soil	1-8oz Jar	None										Hold and Archive
9	SS103G-2.5	11/21/16	08:28	Soil	1-8oz Jar	None										Hold and Archive
10	SS103H-0.5	11/21/16	08:30	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	EF	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	L. Marrolett		11/21/16 1203
2 Relinquished By:	[illegible]	L. Marrolett		11/21/16 1258
2 Received By:	[illegible]	[illegible]		11/21/16 1355
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS103H-1.5	11/21/16	08:30	Soil	1-8oz Jar	None											Hold and Archve
2	SS103H-2.5	11/21/16	08:30	Soil	1-8oz Jar	None											Hold and Archve
3	SS103I-0.5	11/21/16	08:21	Soil	1-8oz Jar	None		x									
4	SS103I-1.5	11/21/16	08:21	Soil	1-8oz Jar	None											Hold and Archive
5	SS103I-2.5	11/21/16	08:21	Soil	1-8oz Jar	None											Hold and Archive
6	SS103J-0.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
7	SS103J-1.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
8	SS103J-2.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
9	SS103K-0.5	11/21/16	08:28	Soil	1-8oz Jar	None		x									
10	SS103K-1.5	11/21/16	08:29	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	EFL	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marrolett		11/21/16 1203
2 Relinquished By:	[signature]	L. Marrolett		11/21/16 1255
2 Received By:	[signature]	TD		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 38-4618 Page: 3 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS103K-2.5	11/21/16	08:29	Soil	1-8oz Jar	None											Hold and Archive
2	SS103L-0.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
3	SS103L-1.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
4	SS103L-2.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
5	SS96D-0.5	11/21/16	08:32	Soil	1-8oz Jar	None		x									
6	SS96D-1.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
7	SS96D-2.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
8	SS96E-0.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
9	SS96E-1.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
10	SS96E-2.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Maccarotti		11/21/16 1203
2 Relinquished By:	[signature]	L. Maccarotti		11/21/16 1255
2 Received By:	[signature]	[signature]		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 4 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS93G-0.5	11/21/16	08:45	Soil	1-8oz Jar	None		x	
2	SS93G-1.5	11/21/16	08:46	Soil	1-8oz Jar	None			Hold and Archive
3	SS93G-2.5	11/21/16	08:46	Soil	1-8oz Jar	None			Hold and Archive
4	SS93H-0.5	11/21/16	08:44	Soil	1-8oz Jar	None			Hold and Archive
5	SS93H-1.5	11/21/16	08:45	Soil	1-8oz Jar	None			Hold and Archive
6	SS93H-2.5	11/21/16	08:45	Soil	1-8oz Jar	None			Hold and Archive
7	SS27G-0.5	11/21/16	08:49	Soil	1-8oz Jar	None	x	x	
8	SS27G-1.5	11/21/16	08:53	Soil	1-8oz Jar	None			Hold and Archive
9	SS27G-2.5	11/21/16	08:53	Soil	1-8oz Jar	None			Hold and Archive
10	~~SS27H-0.5~~ EF	~~11/21/16~~	~~NA~~	Soil	1-8oz Jar	None	x	x	Not Collected

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marrokitti		11/21/16 1203
2 Relinquished By:	[signature]	L. Marrokitti		11/21/16 1255
2 Received By:	[signature]	Tony		11/21/16 1257
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 5 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS27H-1.5~~ EF	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS27H-2.5~~ EF	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
3	SS27I-0.5	11/21/16	08:38	Soil	1-8oz Jar	None		x								
4	SS27I-1.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive
5	SS27I-2.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive
6	SS27J-0.5	11/21/16	08:40	Soil	1-8oz Jar	None										Hold and Archive
7	SS27J-1.5	11/21/16	08:41	Soil	1-8oz Jar	None										Hold and Archive
8	SS27J-2.5	11/21/16	08:42	Soil	1-8oz Jar	None										Hold and Archive
9	SS27K-0.5	11/21/16	08:35	Soil	1-8oz Jar	None										Hold and Archive
10	SS27K-1.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marcelletti		~~11/21/1203~~ 11/21/16 1203
2 Relinquished By:	[signature]	L. Marcelletti		11/21/16 1255
2 Received By:	[signature]	Tony B		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 6 of 17	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPHY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS27K-2.5	11/21/16	08:40	Soil	1-8oz Jar	None											Hold and Archive
2	SS27L-0.5	11/21/16	08:41	Soil	1-8oz Jar	None		x									
3	SS27L-1.5	11/21/16	08:41	Soil	1-8oz Jar	None											Hold and Archive
4	SS27L-2.5	11/21/16	08:42	Soil	1-8oz Jar	None											Hold and Archive
5	SS68E-0.5	11/21/16	11:19	Soil	1-8oz Jar	None		x									
6	SS68E-1.5	11/21/16	11:20	Soil	1-8oz Jar	None											Hold and Archive
7	SS68E-2.5	11/21/16	11:21	Soil	1-8oz Jar	None											Hold and Archive
8	SS68F-0.5	11/21/16	11:21	Soil	1-8oz Jar	None											Hold and Archive
9	SS68F-1.5	11/21/16	11:24	Soil	1-8oz Jar	None											Hold and Archive
10	SS68F-2.5	11/21/16	11:25	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	C. Marrolatti		11/21/16 1203
2 Relinquished By:	[illegible]	C. Marrolatti		11/21/16 1255
2 Received By:	[illegible]	Tony P		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 7 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS68G-0.5	11/21/16	11:24	Soil	1-8oz Jar	None		x									
2	SS68G-1.5	11/21/16	11:24	Soil	1-8oz Jar	None											Hold and Archive
3	SS68G-2.5	11/21/16	11:25	Soil	1-8oz Jar	None											Hold and Archive
4	SS68H-0.5	11/21/16	11:27	Soil	1-8oz Jar	None											Hold and Archive
5	SS68H-1.5	11/21/16	11:27	Soil	1-8oz Jar	None											Hold and Archive
6	SS68H-2.5	11/21/16	11:28	Soil	1-8oz Jar	None											Hold and Archive
7	SS79G-0.5	11/21/16	09:41	Soil	1-8oz Jar	None		x									
8	SS79G-1.5	11/21/16	09:42	Soil	1-8oz Jar	None											Hold and Archive
9	SS79G-2.5	11/21/16	09:42	Soil	1-8oz Jar	None											Hold and Archive
10	SS79H-0.5	11/21/16	09:32	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	L. Marcelletti		11/21/16 1203
2 Relinquished By:	[illegible]	L. Marcelletti		11/21/16 1255
2 Received By:	[illegible]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 8 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS79H-1.5	11/21/16	09:33	Soil	1-8oz Jar	None											Hold and Archive
2	SS79H-2.5	11/21/16	09:34	Soil	1-8oz Jar	None											Hold and Archive
3	~~SS79I-0.5~~ EF	11/21/16	NA	Soil	1-8oz Jar	None		x									Not collected (NC)
4	~~SS79I-1.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
5	~~SS79I-2.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
6	~~SS79J-0.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
7	~~SS79J-1.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
8	~~SS79J-2.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
9	~~SS88D-0.5~~	11/21/16		Soil	1-8oz Jar	None	x	x									Not collected (NC)
10	~~SS88D-1.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive NC

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marcelletti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marcelletti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 9 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS88D-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS88E-0.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
3	~~SS88E-1.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
4	~~SS88E-2.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
5	SS87E-0.5	11/21/16	09:19	Soil	1-8oz Jar	None		x								
6	SS87E-1.5	11/21/16	09:20	Soil	1-8oz Jar	None										Hold and Archive
7	SS87E-2.5	11/21/16	09:20	Soil	1-8oz Jar	None										Hold and Archive
8	SS87F-0.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive
9	SS87F-1.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive
10	SS87F-2.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
[1] Received By:	[signature]	C. Marrolette		11/21/16 1203
[2] Relinquished By:	[signature]	C. Marrolette		11/21/16 1251
[2] Received By:	[signature]	Tony D		11/21/16 1255
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 3846618 Page: 10 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS87G-0.5	11/21/16	09:28	Soil	1-8oz Jar	None		x									
2	SS87G-1.5	11/21/16	09:29	Soil	1-8oz Jar	None											Hold and Archive
3	SS87G-2.5	11/21/16	09:29	Soil	1-8oz Jar	None											Hold and Archive
4	SS87H-0.5	11/21/16	09:19	Soil	1-8oz Jar	None											Hold and Archive
5	SS87H-1.5	11/21/16	09:20	Soil	1-8oz Jar	None											Hold and Archive
6	SS87H-2.5	11/21/16	09:20	Soil	1-8oz Jar	None											Hold and Archive
7	SS80D-0.5	11/21/16	10:00	Soil	1-8oz Jar	None		x									
8	SS80D-1.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive
9	SS80D-2.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive
10	SS80E-0.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
[1] Received By:	[signature]	C. Marcolotti		11/21/16 1203
[2] Relinquished By:	[signature]	C. Marcolotti		11/21/16 1255
[2] Received By:	[signature]	Tony D		11/21/16 1255
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 3846618 Page: 11 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS80E-1.5~~ Not collected	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS80E-2.5~~ Not collected	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
3	SS77D-0.5	11/21/16	10:21	Soil	1-8oz Jar	None		x								
4	SS77D-1.5	11/21/16	10:22	Soil	1-8oz Jar	None										Hold and Archive
5	SS77D-2.5	11/21/16	10:22	Soil	1-8oz Jar	None										Hold and Archive
6	~~SS77E-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
7	~~SS77E-1.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
8	~~SS77E-2.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
9	~~SS77F-0.5~~	~~11/21/16~~	NA	Soil	1-8oz Jar	None		x								Not collected
10	~~SS77F-1.5~~	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	E. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	E. Marrolotti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 38U618 Page: 12 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS77F-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	SS77G-0.5	11/21/16	10:19	Soil	1-8oz Jar	None		x								
3	SS77G-1.5	11/21/16	10:19	Soil	1-8oz Jar	None										Hold and Archive
4	SS77G-2.5	11/21/16	10:19	Soil	1-8oz Jar	None										Hold and Archive
5	~~SS77H-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
6	~~SS77H-1.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~ ↓
7	~~SS77H-2.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~ ↓
8	SS76D-0.5	11/21/16	10:30	Soil	1-8oz Jar	None		x								
9	SS76D-1.5	11/21/16	10:30	Soil	1-8oz Jar	None										Hold and Archive
10	SS76D-2.5	11/21/16	10:30	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolette		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolette		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1265
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 13 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS76E-0.5	11/21/16	10:21	Soil	1-8oz Jar	None										Hold and Archive
2	SS76E-1.5	11/21/16	10:24	Soil	1-8oz Jar	None										Hold and Archive
3	SS76E-2.5	11/21/16	10:25	Soil	1-8oz Jar	None										Hold and Archive
4	~~SS76F-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None		x								Not collected
5	~~SS76E-1.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~
6	~~SS76F-2.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~
7	~~SS74D-0.5~~ ~~OK~~ EF	11/21/16	10:45	Soil	1-8oz Jar	None		x								
8	SS74D-1.5	11/21/16	10:46	Soil	1-8oz Jar	None										Hold and Archive
9	SS74D-2.5	11/21/16	10:47	Soil	1-8oz Jar	None										Hold and Archive
10	~~SS70D-0.5~~ ~~NA~~	11/21/16	NA	Soil	1-8oz Jar	None		x								Not collected

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrokki		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrokki		11/21/16 1253
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 2846018 Page: 14 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPHY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	~~SS70D-1.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive Not collected
2	~~SS70D-2.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
3	~~SS70E-0.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
4	~~SS70E-1.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
5	~~SS70E-2.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
6	SS70F-0.5	11/21/16	10:38	Soil	1-8oz Jar	None		x									
7	SS70F-1.5	11/21/16	10:38	Soil	1-8oz Jar	None											Hold and Archive
8	SS70F-2.5	11/21/16	10:39	Soil	1-8oz Jar	None											Hold and Archive
9	SS70G-0.5	11/21/16	10:29	Soil	1-8oz Jar	None											Hold and Archive
10	SS70G-1.5	11/21/16	10:29	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Eric Fraske	Alta Environmental	11/21/2016
1 Received By:		C. Marrolletti		11/21/16 1203
2 Relinquished By:		C. Marrolletti		11/21/16 1255
2 Received By:		Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 15 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS70G-2.5	11/21/16	10:30	Soil	1-8oz Jar	None											Hold and Archive
2	SS70H-0.5	11/21/16	10:35	Soil	1-8oz Jar	None		x									
3	SS70H-1.5	11/21/16	10:36	Soil	1-8oz Jar	None											Hold and Archive
4	SS70H-2.5	11/21/16	10:37	Soil	1-8oz Jar	None											Hold and Archive
5	SS70I-0.5	11/21/16	10:43	Soil	1-8oz Jar	None											Hold and Archive
6	SS70I-1.5	11/21/16	10:44	Soil	1-8oz Jar	None											Hold and Archive
7	SS70I-2.5	11/21/16	10:45	Soil	1-8oz Jar	None											Hold and Archive
8	~~SS76G-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None											~~Hold and Archive~~ Not collected
9	~~SS76G-1.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive
10	~~SS76G-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolotti		11/21/16 1255
2 Received By:	[signature]	TOM D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 16 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS103K-0.5DUP	11/21/16	08:29	Soil	1-8oz Jar	None		X	
2	SS93G-0.5DUP	11/21/16	08:45	Soil	1-8oz Jar	None		X	
3	SS27G-0.5DUP	11/21/16	08:50	Soil	1-8oz Jar	None	X	X	
4	SS87E-0.5DUP	11/21/16	09:19	Soil	1-8oz Jar	None		X	
5	SS76D-0.5DUP	11/21/16	10:30	Soil	1-8oz Jar	None		X	
6	SS77D-0.5DUP	11/21/16	10:21	Soil	1-8oz Jar	None		X	
7	SS80D-0.5DUP	11/21/16	10:00	Soil	1-8oz Jar	None		X	
8	SS70H-0.5DUP	11/21/16	10:35	Soil	1-8oz Jar	None		X	
9	SS68G-0.5DUP	11/21/16	11:19	Soil	1-8oz Jar	None		X	
10	EB112116A	11/21/16	11:40	~~Soil~~ H2O	~~1-8oz Jar~~ poly	~~None~~ 3	X	X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolletti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolletti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 16 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	EB112116B	11/21/16	11:40	H2O	1 Poly	3	X	X									
2		11/21/16															
3		11/21/16															
4		11/21/16															
5		11/21/16															
6		11/21/16															
7		11/21/16															
8		11/21/16															
9		11/21/16															
10		11/21/16															

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolotti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Alta

Project: _____

Date Received: 11/21/16

Sampler's Name Present: Yes No

Sample(s) received in a cooler? Yes How many? 1 No (skip section 2) Sample Temp (°C): _____

Sample Temp (°C) from each cooler: #1: 14.1 #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information: _____

Section 2

Was the cooler packed with: ✓ Ice ____ Ice Packs ____ Bubble Wrap ____ Styrofoam ____ Paper ____ None ____ Other _____

Cooler Temp (°C): #1: 1.9 #2: _____ #3: _____ #4: _____

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relinquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Section 4

Explanations/Comments: _____

Section 5

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____

Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: _____ Date: 11/21/16

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Formerly Associated Labs
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www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	384618
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	01/19/2017
		Date Received:	11/21/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Thomas Jefferson High School
LAUS-16-6101

Supplemental Report 2

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
384618-001	SS103G-0.5	384618-029	SS93H-1.5	384618-057	SS68H-2.5
384618-002	SS103G-1.5	384618-030	SS93H-2.5	384618-058	SS79G-0.5
384618-003	SS103G-2.5	384618-031	SS27G-0.5	384618-059	SS79G-1.5
384618-004	SS103H-0.5	384618-032	SS27G-1.5	384618-060	SS79G-2.5
384618-005	SS103H-1.5	384618-033	SS27G-2.5	384618-061	SS79H-0.5
384618-006	SS103H-2.5	384618-034	SS27I-0.5	384618-062	SS79H-1.5
384618-007	SS103I-0.5	384618-035	SS27I-1.5	384618-063	SS79H-2.5
384618-008	SS103I-1.5	384618-036	SS27I-2.5	384618-064	SS87E-0.5
384618-009	SS103I-2.5	384618-037	SS27J-0.5	384618-065	SS87E-1.5
384618-010	SS103J-0.5	384618-038	SS27J-1.5	384618-066	SS87E-2.5
384618-011	SS103J-1.5	384618-039	SS27J-2.5	384618-067	SS87F-0.5
384618-012	SS103J-2.5	384618-040	SS27K-0.5	384618-068	SS87F-1.5
384618-013	SS103K-0.5	384618-041	SS27K-1.5	384618-069	SS87F-2.5
384618-014	SS103K-1.5	384618-042	SS27K-2.5	384618-070	SS87G-0.5
384618-015	SS103K-2.5	384618-043	SS27L-0.5	384618-071	SS87G-1.5
384618-016	SS103L-0.5	384618-044	SS27L-1.5	384618-072	SS87G-2.5
384618-017	SS103L-1.5	384618-045	SS27L-2.5	384618-073	SS87H-0.5
384618-018	SS103L-2.5	384618-046	SS68E-0.5	384618-074	SS87H-1.5
384618-019	SS96D-0.5	384618-047	SS68E-1.5	384618-075	SS87H-2.5
384618-020	SS96D-1.5	384618-048	SS68E-2.5	384618-076	SS80D-0.5
384618-021	SS96D-2.5	384618-049	SS68F-0.5	384618-077	SS80D-1.5
384618-022	SS96E-0.5	384618-050	SS68F-1.5	384618-078	SS80D-2.5
384618-023	SS96E-1.5	384618-051	SS68F-2.5	384618-079	SS80E-0.5
384618-024	SS96E-2.5	384618-052	SS68G-0.5	384618-080	SS77D-0.5
384618-025	SS93G-0.5	384618-053	SS68G-1.5	384618-081	SS77D-1.5
384618-026	SS93G-1.5	384618-054	SS68G-2.5	384618-082	SS77D-2.5
384618-027	SS93G-2.5	384618-055	SS68H-0.5	384618-083	SS77G-0.5
384618-028	SS93H-0.5	384618-056	SS68H-1.5	384618-084	SS77G-1.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:28 **Site:**
Sample #: 384618-001 **Client Sample #:** SS103G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**145**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:28 **Site:**
Sample #: 384618-002 **Client Sample #:** SS103G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**1.23**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:28 **Site:**
Sample #: 384618-003 **Client Sample #:** SS103G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:30 **Site:**
Sample #: 384618-004 **Client Sample #:** SS103H-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**150**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:30 **Site:**
Sample #: 384618-005 **Client Sample #:** SS103H-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**14.7**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:30 **Site:**
Sample #: 384618-006 **Client Sample #:** SS103H-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:21 **Site:**
Sample #: 384618-007 **Client Sample #:** SS103I-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**92.0**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:21 **Site:**
Sample #: 384618-008 **Client Sample #:** SS103I-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**13.1**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:21 **Site:**
Sample #: 384618-009 **Client Sample #:** SS103I-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:23 **Site:**
Sample #: 384618-010 **Client Sample #:** SS103J-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**141**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:23 **Site:**
Sample #: 384618-011 **Client Sample #:** SS103J-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**27.2**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:23 **Site:**
Sample #: 384618-012 **Client Sample #:** SS103J-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:28 **Site:**
Sample #: 384618-013 **Client Sample #:** SS103K-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**68.0**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:29 **Site:**
Sample #: 384618-014 **Client Sample #:** SS103K-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**40.3**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:29 **Site:**
Sample #: 384618-015 **Client Sample #:** SS103K-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:27 **Site:**
Sample #: 384618-016 **Client Sample #:** SS103L-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**107**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:27 **Site:**
Sample #: 384618-017 **Client Sample #:** SS103L-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:27 **Site:**
Sample #: 384618-018 **Client Sample #:** SS103L-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-019 **Client Sample #:** SS96D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**318**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-020 **Client Sample #:** SS96D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**0.39 J**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	J

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-021 **Client Sample #:** SS96D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-022 **Client Sample #:** SS96E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**248**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-023 **Client Sample #:** SS96E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**14.3**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:32 **Site:**
Sample #: 384618-024 **Client Sample #:** SS96E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:45 **Site:**
Sample #: 384618-025 **Client Sample #:** SS93G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**60.8**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:46 **Site:**
Sample #: 384618-026 **Client Sample #:** SS93G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:46 **Site:**
Sample #: 384618-027 **Client Sample #:** SS93G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:44 **Site:**
Sample #: 384618-028 **Client Sample #:** SS93H-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:45	**Site:**			
Sample #:	**384618-029**	**Client Sample #:**	SS93H-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:45	**Site:**			
Sample #:	**384618-030**	**Client Sample #:**	SS93H-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:49	**Site:**			
Sample #:	**384618-031**	**Client Sample #:**	SS27G-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**268**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172947		
Arsenic	**10.1**	20	0.4	6	mg/Kg	11/30/16	11/30/16	MH	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:53	**Site:**			
Sample #:	**384618-032**	**Client Sample #:**	SS27G-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**96.6**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:53	**Site:**			
Sample #:	**384618-033**	**Client Sample #:**	SS27G-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:38	**Site:**			
Sample #:	**384618-034**	**Client Sample #:**	SS27I-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**58.5**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:38	**Site:**			
Sample #:	**384618-035**	**Client Sample #:**	SS27I-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:38	**Site:**			
Sample #:	**384618-036**	**Client Sample #:**	SS27I-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:40	**Site:**			
Sample #:	**384618-037**	**Client Sample #:**	SS27J-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:41	**Site:**			
Sample #:	**384618-038**	**Client Sample #:**	SS27J-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:42	**Site:**			
Sample #:	**384618-039**	**Client Sample #:**	SS27J-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:35	**Site:**			
Sample #:	**384618-040**	**Client Sample #:**	SS27K-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:38	**Site:**			
Sample #:	**384618-041**	**Client Sample #:**	SS27K-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:40	**Site:**			
Sample #:	**384618-042**	**Client Sample #:**	SS27K-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:41	**Site:**			
Sample #:	**384618-043**	**Client Sample #:**	SS27L-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**24.4**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:41 **Site:**
Sample #: 384618-044 **Client Sample #:** SS27L-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:42 **Site:**
Sample #: 384618-045 **Client Sample #:** SS27L-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:19 **Site:**
Sample #: 384618-046 **Client Sample #:** SS68E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**58.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:20 **Site:**
Sample #: 384618-047 **Client Sample #:** SS68E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:21 **Site:**
Sample #: 384618-048 **Client Sample #:** SS68E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:21 **Site:**
Sample #: 384618-049 **Client Sample #:** SS68F-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:24 **Site:**
Sample #: 384618-050 **Client Sample #:** SS68F-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 11:25 **Site:**
Sample #: 384618-051 **Client Sample #:** SS68F-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:24	Site:			
Sample #:	384618-052	Client Sample #:	SS68G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**166**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:24	Site:			
Sample #:	384618-053	Client Sample #:	SS68G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**4.53**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:25	Site:			
Sample #:	384618-054	Client Sample #:	SS68G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:27	Site:			
Sample #:	384618-055	Client Sample #:	SS68H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**36.3**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:27	Site:			
Sample #:	384618-056	Client Sample #:	SS68H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:28	Site:			
Sample #:	384618-057	Client Sample #:	SS68H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:41	Site:			
Sample #:	384618-058	Client Sample #:	SS79G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**101**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 09:42	**Site:**			
Sample #:	**384618-059**	**Client Sample #:**	SS79G-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**9.24**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 09:42	**Site:**			
Sample #:	**384618-060**	**Client Sample #:**	SS79G-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 09:32	**Site:**			
Sample #:	**384618-061**	**Client Sample #:**	SS79H-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**192**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 09:33	**Site:**			
Sample #:	**384618-062**	**Client Sample #:**	SS79H-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**22.6**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 09:34	**Site:**			
Sample #:	**384618-063**	**Client Sample #:**	SS79H-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 09:19	**Site:**			
Sample #:	**384618-064**	**Client Sample #:**	SS87E-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**97.1**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:20	**Site:**			
Sample #:	**384618-065**	**Client Sample #:**	SS87E-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**10.4**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:20	Site:			
Sample #:	384618-066	Client Sample #:	SS87E-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:15	Site:			
Sample #:	384618-067	Client Sample #:	SS87F-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	21.9	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:15	Site:			
Sample #:	384618-068	Client Sample #:	SS87F-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:15	Site:			
Sample #:	384618-069	Client Sample #:	SS87F-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:28	Site:			
Sample #:	384618-070	Client Sample #:	SS87G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	99.2	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:29	Site:			
Sample #:	384618-071	Client Sample #:	SS87G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	18.4	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:29	Site:			
Sample #:	384618-072	Client Sample #:	SS87G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:19	Site:			
Sample #:	384618-073	Client Sample #:	SS87H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	68.0	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:20	Site:			
Sample #:	384618-074	Client Sample #:	SS87H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:20	Site:			
Sample #:	384618-075	Client Sample #:	SS87H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:00	Site:			
Sample #:	384618-076	Client Sample #:	SS80D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	32.3	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:02	Site:			
Sample #:	384618-077	Client Sample #:	SS80D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	3.20	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:02	Site:			
Sample #:	384618-078	Client Sample #:	SS80D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:02	Site:			
Sample #:	384618-079	Client Sample #:	SS80E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	19.6	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:21	Site:			
Sample #:	384618-080	Client Sample #:	SS77D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**848**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:22	Site:			
Sample #:	384618-081	Client Sample #:	SS77D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**1.38**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:22	Site:			
Sample #:	384618-082	Client Sample #:	SS77D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:19	Site:			
Sample #:	384618-083	Client Sample #:	SS77G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**165**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:19	Site:			
Sample #:	384618-084	Client Sample #:	SS77G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173295		
Lead	**9.15**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:19	Site:			
Sample #:	384618-085	Client Sample #:	SS77G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:30	Site:			
Sample #:	384618-086	Client Sample #:	SS76D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**54.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-087 **Client Sample #:** SS76D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-088 **Client Sample #:** SS76D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:21 **Site:**
Sample #: 384618-089 **Client Sample #:** SS76E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:24 **Site:**
Sample #: 384618-090 **Client Sample #:** SS76E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:25 **Site:**
Sample #: 384618-091 **Client Sample #:** SS76E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:45 **Site:**
Sample #: 384618-092 **Client Sample #:** SS74D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**43.1**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:46 **Site:**
Sample #: 384618-093 **Client Sample #:** SS74D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:47 **Site:**
Sample #: 384618-094 **Client Sample #:** SS74D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:38	Site:			
Sample #:	384618-095	Client Sample #:	SS70F-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**109**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:38	Site:			
Sample #:	384618-096	Client Sample #:	SS70F-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173295		
Lead	**13.8**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:39	Site:			
Sample #:	384618-097	Client Sample #:	SS70F-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:29	Site:			
Sample #:	384618-098	Client Sample #:	SS70G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173295		
Lead	**132**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:29	Site:			
Sample #:	384618-099	Client Sample #:	SS70G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**18.0**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:30	Site:			
Sample #:	384618-100	Client Sample #:	SS70G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:35	Site:			
Sample #:	384618-101	Client Sample #:	SS70H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**78.7**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:36	Site:			
Sample #:	**384618-102**	Client Sample #:	SS70H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:37	Site:			
Sample #:	**384618-103**	Client Sample #:	SS70H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:43	Site:			
Sample #:	**384618-104**	Client Sample #:	SS70I-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:44	Site:			
Sample #:	**384618-105**	Client Sample #:	SS70I-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:45	Site:			
Sample #:	**384618-106**	Client Sample #:	SS70I-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:29	Site:			
Sample #:	**384618-107**	Client Sample #:	SS103K-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**81.6**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:45	Site:			
Sample #:	**384618-108**	Client Sample #:	SS93G-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**25.3**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:50	Site:			
Sample #:	384618-109	Client Sample #:	SS27G-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**33.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	
Method: EPA 6020 NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172947		
Arsenic	**9.34**	20	0.4	6	mg/Kg	11/30/16	11/30/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:19	Site:			
Sample #:	384618-110	Client Sample #:	SS87E-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**85.4**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:30	Site:			
Sample #:	384618-111	Client Sample #:	SS76D-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**50.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:21	Site:			
Sample #:	384618-112	Client Sample #:	SS77D-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**242**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:00	Site:			
Sample #:	384618-113	Client Sample #:	SS80D-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**127**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:35	Site:			
Sample #:	384618-114	Client Sample #:	SS70H-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**65.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:19	Site:			
Sample #:	384618-115	Client Sample #:	SS68E-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**53.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:40	**Site:**			
Sample #:	**384618-116**	**Client Sample #:**	EB112116A	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1172781		
Lead	ND	1	0.004	0.005	mg/L	11/23/16	11/23/16	KLN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1172783		
Arsenic	ND	1	0.13	2	ug/L	11/23/16	11/23/16	MH	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:40	**Site:**			
Sample #:	**384618-117**	**Client Sample #:**	EB112116B	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1172781		
Lead	ND	1	0.004	0.005	mg/L	11/23/16	11/23/16	KLN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1172783		
Arsenic	ND	1	0.13	2	ug/L	11/23/16	11/23/16	MH	

QCBatchID: QC1172781	Analyst: dswafford	Method: EPA 6010B
Matrix: Water	Analyzed: 11/23/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172781MB1					
Arsenic	ND	mg/L	0.004	0.01	
Lead	ND	mg/L	0.004	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172781LCS1											
Arsenic	2		1.79		mg/L	90			80-120		
Lead	2		1.76		mg/L	88			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172781MS1, QC1172781MSD1												**Source: 384618-116**
Arsenic	ND	1	1	0.964	0.887	mg/L	96	89	8.3	75-125	20	
Lead	ND	1	1	0.944	0.877	mg/L	94	88	7.4	75-125	20	

QCBatchID: QC1172783	Analyst: dswafford	Method: EPA 6020
Matrix: Water	Analyzed: 11/23/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172783MB1					
Arsenic	ND	ug/L	0.13	2	
Copper	ND	ug/L	0.11	3	
Lead	ND	ug/L	0.1	5	
Zinc	**2.62 J**	ug/L	0.16	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172783LCS1											
Arsenic	50		52.9		ug/L	106			80-120		
Copper	50		51.6		ug/L	103			80-120		
Lead	50		50.6		ug/L	101			80-120		
Zinc	50		57.3		ug/L	115			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172783MS1, QC1172783MSD1												**Source: 384404-054**
Arsenic	ND	50	50	52.5	53.1	ug/L	105	106	1.1	75-125	20	
Copper	1.66	50	50	52.8	53.1	ug/L	102	103	0.6	75-125	20	
Lead	0.2	50	50	52.5	53.6	ug/L	105	107	2.1	75-125	20	
Zinc	80.9	50	50	132	138	ug/L	102	114	4.4	75-125	20	

QCBatchID: QC1172940	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172940MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940LCS1											
Antimony	100		95.6		mg/Kg	96			80-120		
Arsenic	100		95.3		mg/Kg	95			80-120		
Barium	100		106		mg/Kg	106			80-120		
Beryllium	100		106		mg/Kg	106			80-120		
Cadmium	100		99.5		mg/Kg	100			80-120		
Chromium	100		106		mg/Kg	106			80-120		
Cobalt	100		108		mg/Kg	108			80-120		
Copper	100		108		mg/Kg	108			80-120		
Lead	100		102		mg/Kg	102			80-120		
Molybdenum	100		90.8		mg/Kg	91			80-120		
Nickel	100		106		mg/Kg	106			80-120		
Selenium	100		93.6		mg/Kg	94			80-120		
Silver	100		98.9		mg/Kg	99			80-120		
Thallium	100		97.4		mg/Kg	97			80-120		
Vanadium	100		109		mg/Kg	109			80-120		
Zinc	100		105		mg/Kg	105			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940MS1, QC1172940MSD1												**Source: 384593-001**
Antimony	2.32	100	100	34.8	38.3	mg/Kg	32	36	9.6	75-125	20	M
Arsenic	107	100	100	217	218	mg/Kg	110	111	0.5	75-125	20	
Barium	654	100	100	915	823	mg/Kg	261	169	10.6	75-125	20	NC
Beryllium	ND	100	100	95.2	95.9	mg/Kg	95	96	0.7	75-125	20	
Cadmium	5.23	100	100	105	104	mg/Kg	100	99	1.0	75-125	20	
Chromium	13.0	100	100	109	108	mg/Kg	96	95	0.9	75-125	20	
Cobalt	27.4	100	100	119	120	mg/Kg	92	93	0.8	75-125	20	
Copper	1500	100	100	1880	1710	mg/Kg	380	210	9.5	75-125	20	NC
Lead	68.9	100	100	158	157	mg/Kg	89	88	0.6	75-125	20	

QCBatchID: QC1172940	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940MS1, QC1172940MSD1											**Source:**	**384593-001**
Molybdenum	3.59	100	100	98.4	98.9	mg/Kg	95	95	0.5	75-125	20	
Nickel	2.63	100	100	90.6	91.5	mg/Kg	88	89	1.0	75-125	20	
Selenium	20.9	100	100	114	113	mg/Kg	93	92	0.9	75-125	20	
Silver	1.23	100	100	97.6	96.7	mg/Kg	96	95	0.9	75-125	20	
Thallium	0.95	100	100	96.5	95.0	mg/Kg	96	94	1.6	75-125	20	
Vanadium	21.8	100	100	124	122	mg/Kg	102	100	1.6	75-125	20	
Zinc	4120	100	100	4390	4410	mg/Kg	270	290	0.5	75-125	20	NC

QCBatchID: QC1172941	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172941MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941LCS1											
Antimony	100		101		mg/Kg	101			80-120		
Arsenic	100		99.8		mg/Kg	100			80-120		
Barium	100		103		mg/Kg	103			80-120		
Beryllium	100		102		mg/Kg	102			80-120		
Cadmium	100		99.4		mg/Kg	99			80-120		
Chromium	100		104		mg/Kg	104			80-120		
Cobalt	100		109		mg/Kg	109			80-120		
Copper	100		104		mg/Kg	104			80-120		
Lead	100		102		mg/Kg	102			80-120		
Molybdenum	100		96.1		mg/Kg	96			80-120		
Nickel	100		108		mg/Kg	108			80-120		
Selenium	100		95.6		mg/Kg	96			80-120		
Silver	100		101		mg/Kg	101			80-120		
Thallium	100		104		mg/Kg	104			80-120		
Vanadium	100		104		mg/Kg	104			80-120		
Zinc	100		103		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941MS1, QC1172941MSD1												**Source: 384618-101**
Antimony	ND	100	100	27.7	23.9	mg/Kg	30	26	14.7	75-125	20	M
Arsenic	4.72	100	100	101	97.0	mg/Kg	96	92	4.0	75-125	20	
Barium	92.4	100	100	194	188	mg/Kg	102	96	3.1	75-125	20	
Beryllium	ND	100	100	98.2	91.4	mg/Kg	100	93	7.2	75-125	20	
Cadmium	0.55	100	100	93.6	90.0	mg/Kg	93	89	3.9	75-125	20	
Chromium	13.5	100	100	110	108	mg/Kg	97	95	1.8	75-125	20	
Cobalt	7.15	100	100	106	101	mg/Kg	99	94	4.8	75-125	20	
Copper	20.0	100	100	124	117	mg/Kg	104	97	5.8	75-125	20	
Lead	78.7	100	100	169	175	mg/Kg	90	96	3.5	75-125	20	

QCBatchID: QC1172941	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941MS1, QC1172941MSD1												**Source: 384618-101**
Molybdenum	ND	100	100	87.4	82.1	mg/Kg	87	82	6.3	75-125	20	
Nickel	10.5	100	100	108	103	mg/Kg	98	93	4.7	75-125	20	
Selenium	ND	100	100	60.7	55.2	mg/Kg	91	85	9.5	75-125	20	
Silver	ND	100	100	95.5	88.8	mg/Kg	95	89	7.3	75-125	20	
Thallium	ND	100	100	89.8	86.8	mg/Kg	92	89	3.4	75-125	20	
Vanadium	26.8	100	100	127	122	mg/Kg	100	95	4.0	75-125	20	
Zinc	135	100	100	233	245	mg/Kg	98	110	5.0	75-125	20	

QCBatchID: QC1172947	Analyst: dswafford	Method: EPA 6020
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result		Units	MDL	RDL	Notes
QC1172947MB1						
Antimony	ND		mg/Kg	0.06	0.5	
Arsenic	**0.025**	**J**	mg/Kg	0.02	0.3	
Barium	**0.033**	**J**	mg/Kg	0.02	0.5	
Beryllium	ND		mg/Kg	0.02	0.5	
Cadmium	ND		mg/Kg	0.02	0.5	
Chromium	ND		mg/Kg	0.02	0.5	
Cobalt	ND		mg/Kg	0.02	0.5	
Copper	ND		mg/Kg	0.02	0.5	
Lead	**0.351**	**J**	mg/Kg	0.02	0.5	
Molybdenum	**0.043**	**J**	mg/Kg	0.02	0.5	
Nickel	ND		mg/Kg	0.04	0.5	
Selenium	**0.078**	**J**	mg/Kg	0.04	0.5	
Silver	ND		mg/Kg	0.02	0.5	
Thallium	ND		mg/Kg	0.02	0.5	
Vanadium	ND		mg/Kg	0.02	0.5	
Zinc	**2.60**		mg/Kg	0.09	1	B

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172947LCS1											
Antimony	50		52.5		mg/Kg	105			80-120		
Arsenic	50		52.6		mg/Kg	105			80-120		
Barium	50		51.6		mg/Kg	103			80-120		
Beryllium	50		51.9		mg/Kg	104			80-120		
Cadmium	50		52.5		mg/Kg	105			80-120		
Chromium	50		51.5		mg/Kg	103			80-120		
Cobalt	50		50.4		mg/Kg	101			80-120		
Copper	50		51.5		mg/Kg	103			80-120		
Lead	50		53.5		mg/Kg	107			80-120		
Molybdenum	50		52.2		mg/Kg	104			80-120		
Nickel	50		50.6		mg/Kg	101			80-120		
Selenium	50		52.2		mg/Kg	104			80-120		
Silver	50		49.3		mg/Kg	99			80-120		
Thallium	50		51.3		mg/Kg	103			80-120		
Vanadium	50		52.3		mg/Kg	105			80-120		
Zinc	50		52.4		mg/Kg	105			80-120		

QCBatchID:	QC1173294	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	12/12/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1173294MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1173294LCS1											
Lead	100		103		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1173294MS1, QC1173294MSD1												**Source: 384618-081**
Lead	1.38	100	100	87.4	86.6	mg/Kg	86	85	0.9	75-125	20	

QCBatchID: QC1173295	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 12/12/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1173295MB1					
Iron	ND	mg/Kg	0.4	5	
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1173295LCS1											
Iron	100		114		mg/Kg	114			80-120		
Lead	100		92.9		mg/Kg	93			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1173295MS1, QC1173295MSD1												**Source: 384618-084**
Iron	25400	100	100	22900	22100	mg/Kg	0	0	3.6	75-125	20	NC
Lead	9.15	100	100	99.2	89.5	mg/Kg	90	80	10.3	75-125	20	

QCBatchID:	QC1174225	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	01/11/2017	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1174225MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1174225LCS1											
Lead	100		108		mg/Kg	108			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1174225MS1, QC1174225MSD1												**Source: 384618-005**
Lead	14.7	100	100	110	114	mg/Kg	95	99	3.6	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 1 of 17	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS2E-0.5~~ EF	11/21/16	NA	Soil	1-8oz Jar	None		X								NOT COLLECTED (NC)
2	~~SS2E-1.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
3	~~SS2E-2.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
4	~~SS2F-0.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
5	~~SS2F-1.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
6	~~SS2F-2.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
7	SS103G-0.5	11/21/16	08:28	Soil	1-8oz Jar	None		X								
8	SS103G-1.5	11/21/16	08:28	Soil	1-8oz Jar	None										Hold and Archive
9	SS103G-2.5	11/21/16	08:28	Soil	1-8oz Jar	None										Hold and Archive
10	SS103H-0.5	11/21/16	08:30	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	EF	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	L. Marrolett		11/21/16 1203
2 Relinquished By:	[illegible]	L. Marrolett		11/21/16 1258
2 Received By:	[illegible]	[illegible]		11/21/16 1355
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS103H-1.5	11/21/16	08:30	Soil	1-8oz Jar	None											Hold and Archve
2	SS103H-2.5	11/21/16	08:30	Soil	1-8oz Jar	None											Hold and Archve
3	SS103I-0.5	11/21/16	08:21	Soil	1-8oz Jar	None		x									
4	SS103I-1.5	11/21/16	08:21	Soil	1-8oz Jar	None											Hold and Archive
5	SS103I-2.5	11/21/16	08:21	Soil	1-8oz Jar	None											Hold and Archive
6	SS103J-0.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
7	SS103J-1.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
8	SS103J-2.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
9	SS103K-0.5	11/21/16	08:28	Soil	1-8oz Jar	None		x									
10	SS103K-1.5	11/21/16	08:29	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	EFL	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marrolett		11/21/16 1203
2 Relinquished By:	[signature]	L. Marrolett		11/21/16 1255
2 Received By:	[signature]	TD		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 38-4618 Page: 3 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

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Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS103K-2.5	11/21/16	08:29	Soil	1-8oz Jar	None											Hold and Archive
2	SS103L-0.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
3	SS103L-1.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
4	SS103L-2.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
5	SS96D-0.5	11/21/16	08:32	Soil	1-8oz Jar	None		x									
6	SS96D-1.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
7	SS96D-2.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
8	SS96E-0.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
9	SS96E-1.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
10	SS96E-2.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Maccarotti		11/21/16 1203
2 Relinquished By:	[signature]	L. Maccarotti		11/21/16 1255
2 Received By:	[signature]	[signature]		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 4 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

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Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS93G-0.5	11/21/16	08:45	Soil	1-8oz Jar	None		x	
2	SS93G-1.5	11/21/16	08:46	Soil	1-8oz Jar	None			Hold and Archive
3	SS93G-2.5	11/21/16	08:46	Soil	1-8oz Jar	None			Hold and Archive
4	SS93H-0.5	11/21/16	08:44	Soil	1-8oz Jar	None			Hold and Archive
5	SS93H-1.5	11/21/16	08:45	Soil	1-8oz Jar	None			Hold and Archive
6	SS93H-2.5	11/21/16	08:45	Soil	1-8oz Jar	None			Hold and Archive
7	SS27G-0.5	11/21/16	08:49	Soil	1-8oz Jar	None	x	x	
8	SS27G-1.5	11/21/16	08:53	Soil	1-8oz Jar	None			Hold and Archive
9	SS27G-2.5	11/21/16	08:53	Soil	1-8oz Jar	None			Hold and Archive
10	~~SS27H-0.5~~ EF	~~11/21/16~~	~~NA~~	Soil	1-8oz Jar	None	x	x	Not Collected

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marrokitti		11/21/16 1203
2 Relinquished By:	[signature]	L. Marrokitti		11/21/16 1255
2 Received By:	[signature]	Tony		11/21/16 1257
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 5 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS27H-1.5~~ EF	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS27H-2.5~~ EF	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
3	SS27I-0.5	11/21/16	08:38	Soil	1-8oz Jar	None		x								
4	SS27I-1.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive
5	SS27I-2.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive
6	SS27J-0.5	11/21/16	08:40	Soil	1-8oz Jar	None										Hold and Archive
7	SS27J-1.5	11/21/16	08:41	Soil	1-8oz Jar	None										Hold and Archive
8	SS27J-2.5	11/21/16	08:42	Soil	1-8oz Jar	None										Hold and Archive
9	SS27K-0.5	11/21/16	08:35	Soil	1-8oz Jar	None										Hold and Archive
10	SS27K-1.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marcelletti		~~11/21/1203~~ 11/21/16 1203
2 Relinquished By:	[signature]	L. Marcelletti		11/21/16 1255
2 Received By:	[signature]	Tony B		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 6 of 17	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPHY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS27K-2.5	11/21/16	08:40	Soil	1-8oz Jar	None											Hold and Archive
2	SS27L-0.5	11/21/16	08:41	Soil	1-8oz Jar	None		x									
3	SS27L-1.5	11/21/16	08:41	Soil	1-8oz Jar	None											Hold and Archive
4	SS27L-2.5	11/21/16	08:42	Soil	1-8oz Jar	None											Hold and Archive
5	SS68E-0.5	11/21/16	11:19	Soil	1-8oz Jar	None		x									
6	SS68E-1.5	11/21/16	11:20	Soil	1-8oz Jar	None											Hold and Archive
7	SS68E-2.5	11/21/16	11:21	Soil	1-8oz Jar	None											Hold and Archive
8	SS68F-0.5	11/21/16	11:21	Soil	1-8oz Jar	None											Hold and Archive
9	SS68F-1.5	11/21/16	11:24	Soil	1-8oz Jar	None											Hold and Archive
10	SS68F-2.5	11/21/16	11:25	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	C. Marrolatti		11/21/16 1203
2 Relinquished By:	[illegible]	C. Marrolatti		11/21/16 1255
2 Received By:	[illegible]	Tony P		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 7 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS68G-0.5	11/21/16	11:24	Soil	1-8oz Jar	None		x									
2	SS68G-1.5	11/21/16	11:24	Soil	1-8oz Jar	None											Hold and Archive
3	SS68G-2.5	11/21/16	11:25	Soil	1-8oz Jar	None											Hold and Archive
4	SS68H-0.5	11/21/16	11:27	Soil	1-8oz Jar	None											Hold and Archive
5	SS68H-1.5	11/21/16	11:27	Soil	1-8oz Jar	None											Hold and Archive
6	SS68H-2.5	11/21/16	11:28	Soil	1-8oz Jar	None											Hold and Archive
7	SS79G-0.5	11/21/16	09:41	Soil	1-8oz Jar	None		x									
8	SS79G-1.5	11/21/16	09:42	Soil	1-8oz Jar	None											Hold and Archive
9	SS79G-2.5	11/21/16	09:42	Soil	1-8oz Jar	None											Hold and Archive
10	SS79H-0.5	11/21/16	09:32	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	L. Marcelletti		11/21/16 1203
2 Relinquished By:	[illegible]	L. Marcelletti		11/21/16 1255
2 Received By:	[illegible]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 8 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS79H-1.5	11/21/16	09:33	Soil	1-8oz Jar	None											Hold and Archive
2	SS79H-2.5	11/21/16	09:34	Soil	1-8oz Jar	None											Hold and Archive
3	~~SS79I-0.5~~ EF	11/21/16	NA	Soil	1-8oz Jar	None		x									Not collected (NC)
4	~~SS79I-1.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
5	~~SS79I-2.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
6	~~SS79J-0.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
7	~~SS79J-1.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
8	~~SS79J-2.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
9	~~SS88D-0.5~~	11/21/16		Soil	1-8oz Jar	None	x	x									Not collected (NC)
10	~~SS88D-1.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive NC

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marcelletti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marcelletti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 9 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS88D-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS88E-0.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
3	~~SS88E-1.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
4	~~SS88E-2.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
5	SS87E-0.5	11/21/16	09:19	Soil	1-8oz Jar	None		x								
6	SS87E-1.5	11/21/16	09:20	Soil	1-8oz Jar	None										Hold and Archive
7	SS87E-2.5	11/21/16	09:20	Soil	1-8oz Jar	None										Hold and Archive
8	SS87F-0.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive
9	SS87F-1.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive
10	SS87F-2.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
[1] Received By:	[signature]	C. Marrolette		11/21/16 1203
[2] Relinquished By:	[signature]	C. Marrolette		11/21/16 1251
[2] Received By:	[signature]	Tony D		11/21/16 1255
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 3846618 Page: 10 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS87G-0.5	11/21/16	09:28	Soil	1-8oz Jar	None		x									
2	SS87G-1.5	11/21/16	09:29	Soil	1-8oz Jar	None											Hold and Archive
3	SS87G-2.5	11/21/16	09:29	Soil	1-8oz Jar	None											Hold and Archive
4	SS87H-0.5	11/21/16	09:19	Soil	1-8oz Jar	None											Hold and Archive
5	SS87H-1.5	11/21/16	09:20	Soil	1-8oz Jar	None											Hold and Archive
6	SS87H-2.5	11/21/16	09:20	Soil	1-8oz Jar	None											Hold and Archive
7	SS80D-0.5	11/21/16	10:00	Soil	1-8oz Jar	None		x									
8	SS80D-1.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive
9	SS80D-2.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive
10	SS80E-0.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
[1] Received By:	[signature]	C. Marcolotti		11/21/16 1203
[2] Relinquished By:	[signature]	C. Marcolotti		11/21/16 1255
[2] Received By:	[signature]	Tony D		11/21/16 1255
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 3846618 Page: 11 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS80E-1.5~~ Not collected	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS80E-2.5~~ Not collected	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
3	SS77D-0.5	11/21/16	10:21	Soil	1-8oz Jar	None		x								
4	SS77D-1.5	11/21/16	10:22	Soil	1-8oz Jar	None										Hold and Archive
5	SS77D-2.5	11/21/16	10:22	Soil	1-8oz Jar	None										Hold and Archive
6	~~SS77E-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
7	~~SS77E-1.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
8	~~SS77E-2.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
9	~~SS77F-0.5~~	~~11/21/16~~	NA	Soil	1-8oz Jar	None		x								Not collected
10	~~SS77F-1.5~~	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	E. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	E. Marrolotti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 38U618 Page: 12 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS77F-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	SS77G-0.5	11/21/16	10:19	Soil	1-8oz Jar	None		x								
3	SS77G-1.5	11/21/16	10:19	Soil	1-8oz Jar	None										Hold and Archive
4	SS77G-2.5	11/21/16	10:19	Soil	1-8oz Jar	None										Hold and Archive
5	~~SS77H-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
6	~~SS77H-1.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~ ↓
7	~~SS77H-2.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~ ↓
8	SS76D-0.5	11/21/16	10:30	Soil	1-8oz Jar	None		x								
9	SS76D-1.5	11/21/16	10:30	Soil	1-8oz Jar	None										Hold and Archive
10	SS76D-2.5	11/21/16	10:30	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolette		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolette		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1265
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 13 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS76E-0.5	11/21/16	10:21	Soil	1-8oz Jar	None										Hold and Archive
2	SS76E-1.5	11/21/16	10:24	Soil	1-8oz Jar	None										Hold and Archive
3	SS76E-2.5	11/21/16	10:25	Soil	1-8oz Jar	None										Hold and Archive
4	~~SS76F-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None		x								Not collected
5	~~SS76E-1.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~
6	~~SS76F-2.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~
7	~~SS74D-0.5~~ ~~OK~~ EF	11/21/16	10:45	Soil	1-8oz Jar	None		x								
8	SS74D-1.5	11/21/16	10:46	Soil	1-8oz Jar	None										Hold and Archive
9	SS74D-2.5	11/21/16	10:47	Soil	1-8oz Jar	None										Hold and Archive
10	~~SS70D-0.5~~ ~~NA~~	11/21/16	NA	Soil	1-8oz Jar	None		x								Not collected

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrokki		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrokki		11/21/16 1253
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 2846018 Page: 14 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPHY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	~~SS70D-1.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive Not collected
2	~~SS70D-2.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
3	~~SS70E-0.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
4	~~SS70E-1.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
5	~~SS70E-2.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
6	SS70F-0.5	11/21/16	10:38	Soil	1-8oz Jar	None		x									
7	SS70F-1.5	11/21/16	10:38	Soil	1-8oz Jar	None											Hold and Archive
8	SS70F-2.5	11/21/16	10:39	Soil	1-8oz Jar	None											Hold and Archive
9	SS70G-0.5	11/21/16	10:29	Soil	1-8oz Jar	None											Hold and Archive
10	SS70G-1.5	11/21/16	10:29	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Eric Fraske	Alta Environmental	11/21/2016
1 Received By:		C. Marrolletti		11/21/16 1203
2 Relinquished By:		C. Marrolletti		11/21/16 1255
2 Received By:		Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 15 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS70G-2.5	11/21/16	10:30	Soil	1-8oz Jar	None											Hold and Archive
2	SS70H-0.5	11/21/16	10:35	Soil	1-8oz Jar	None		x									
3	SS70H-1.5	11/21/16	10:36	Soil	1-8oz Jar	None											Hold and Archive
4	SS70H-2.5	11/21/16	10:37	Soil	1-8oz Jar	None											Hold and Archive
5	SS70I-0.5	11/21/16	10:43	Soil	1-8oz Jar	None											Hold and Archive
6	SS70I-1.5	11/21/16	10:44	Soil	1-8oz Jar	None											Hold and Archive
7	SS70I-2.5	11/21/16	10:45	Soil	1-8oz Jar	None											Hold and Archive
8	~~SS76G-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None											~~Hold and Archive~~ Not collected
9	~~SS76G-1.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive
10	~~SS76G-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolotti		11/21/16 1255
2 Received By:	[signature]	TOM D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 16 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS103K-0.5DUP	11/21/16	08:29	Soil	1-8oz Jar	None		X	
2	SS93G-0.5DUP	11/21/16	08:45	Soil	1-8oz Jar	None		X	
3	SS27G-0.5DUP	11/21/16	08:50	Soil	1-8oz Jar	None	X	X	
4	SS87E-0.5DUP	11/21/16	09:19	Soil	1-8oz Jar	None		X	
5	SS76D-0.5DUP	11/21/16	10:30	Soil	1-8oz Jar	None		X	
6	SS77D-0.5DUP	11/21/16	10:21	Soil	1-8oz Jar	None		X	
7	SS80D-0.5DUP	11/21/16	10:00	Soil	1-8oz Jar	None		X	
8	SS70H-0.5DUP	11/21/16	10:35	Soil	1-8oz Jar	None		X	
9	SS68G-0.5DUP	11/21/16	11:19	Soil	1-8oz Jar	None		X	
10	EB112116A	11/21/16	11:40	~~Soil~~ H2O	~~1-8oz Jar~~ poly	~~None~~ 3	X	X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolletti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolletti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 16 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	EB112116B	11/21/16	11:40	H2O	1 Poly	3	X	X									
2		11/21/16															
3		11/21/16															
4		11/21/16															
5		11/21/16															
6		11/21/16															
7		11/21/16															
8		11/21/16															
9		11/21/16															
10		11/21/16															

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolotti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Alta

Project: _____

Date Received: 11/21/16

Sampler's Name Present: Yes No

Sample(s) received in a cooler? Yes How many? 1 No (skip section 2) Sample Temp (°C): _____

Sample Temp (°C) from each cooler: #1: 14.1 #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information: _____

Section 2

Was the cooler packed with: ✓ Ice ____ Ice Packs ____ Bubble Wrap ____ Styrofoam ____ Paper ____ None ____ Other _____

Cooler Temp (°C): #1: 1.9 #2: _____ #3: _____ #4: _____

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relinquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Section 4

Explanations/Comments: _____

Section 5

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____

Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: _____ Date: 11/21/16

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Friday, December 09, 2016 8:34 AM
To: Ranjit Clarke
Cc: Bina Patel
Subject: RE: Thomas Jefferson High School (11/21/16) - Enthalpy Analytical Final Report #384618

Hi Ranjit,

Can you please run the following samples collected and submitted as part of report 384618 for lead only by EPA Method 6010 on a standard TAT.

SS103G-1.5
SS103H-0.5
SS103I-1.5
SS103J-0.5
S96D-1.5
SS96E-0.5
SS27G-1.5
SS68G-1.5
SS68H-0.5
SS79G-1.5
SS79H-0.5
SS87E-1.5
SS87F-0.5
SS87G-1.5
SS87H-0.5
SS77D-1.5
SS77G-1.5
SS70F-1.5
SS70G-0.5
SS103K-1.5
SS103L-0.5
SS80D-1.5
SS80E-0.5

Eric Fraske, PE
Project Manager/Senior III

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3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

If you are buying or developing real estate – time and information are crucial.
Download our **Free Environmental Due Diligence Search Tool** CLICK HERE.

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Monday, January 09, 2017 4:06 PM
To: Kristen Walker; Ranjit Clarke
Subject: RE: Enthalpy Analytical Final Report #384618

Hi Kristen and Ranjit,

Can I get the following samples for this report analyzed for lead EPA 6010 on standard TAT.

- SS103H-1.5
- SS103J-1.5
- SS96E-1.5
- SS79H-1.5

Thanks,

Eric Fraske, PE
Project Manager/Senior III

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o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

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Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

From: Kristen Walker [mailto:kristen.walker@enthalpy.com]
Sent: Wednesday, December 21, 2016 4:54 PM
To: Eric Fraske <Eric.Fraske@altaenviron.com>
Subject: Enthalpy Analytical Final Report #384618

Hi Eric Fraske,

Attached is your final report #384618. I am going to have our IT department create the cover page because all of the samples do not fit on one sheet. I will get this over to you as soon as I can. But all of the sample results are within the report.

Thank you.

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Monday, January 09, 2017 4:13 PM
To: Ranjit Clarke; Kristen Walker
Subject: RE: Enthalpy Analytical Final Report #384618

Sorry, please also add sample SS70G-1.5 to the list as well.

Thanks

Eric Fraske, PE
Project Manager/Senior III

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o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
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Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

From: Ranjit Clarke [mailto:Ranjit.Clarke@enthalpy.com]
Sent: Monday, January 09, 2017 4:13 PM
To: Eric Fraske <Eric.Fraske@altaenviron.com>; Kristen Walker <kristen.walker@enthalpy.com>
Subject: RE: Enthalpy Analytical Final Report #384618

No problem.

ENTHALPY analytical, inc.

Ranjit Clarke
Senior Project Manager
O: 714-771-9906 / M: 657-274-9864 / F: 714-538-1209
Ranjit.Clarke@enthalpy.com

From: Eric Fraske [mailto:Eric.Fraske@altaenviron.com]
Sent: Monday, January 09, 2017 4:06 PM
To: Kristen Walker <kristen.walker@enthalpy.com>; Ranjit Clarke <Ranjit.Clarke@enthalpy.com>
Subject: RE: Enthalpy Analytical Final Report #384618

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	384618
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	01/23/2017
		Date Received:	11/21/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Thomas Jefferson High School
LAUS-16-6101

Supplemental Report 3

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID	Sample #	Client Sample ID	Sample #	Client Sample ID
384618-001	SS103G-0.5	384618-029	SS93H-1.5	384618-057	SS68H-2.5
384618-002	SS103G-1.5	384618-030	SS93H-2.5	384618-058	SS79G-0.5
384618-003	SS103G-2.5	384618-031	SS27G-0.5	384618-059	SS79G-1.5
384618-004	SS103H-0.5	384618-032	SS27G-1.5	384618-060	SS79G-2.5
384618-005	SS103H-1.5	384618-033	SS27G-2.5	384618-061	SS79H-0.5
384618-006	SS103H-2.5	384618-034	SS27I-0.5	384618-062	SS79H-1.5
384618-007	SS103I-0.5	384618-035	SS27I-1.5	384618-063	SS79H-2.5
384618-008	SS103I-1.5	384618-036	SS27I-2.5	384618-064	SS87E-0.5
384618-009	SS103I-2.5	384618-037	SS27J-0.5	384618-065	SS87E-1.5
384618-010	SS103J-0.5	384618-038	SS27J-1.5	384618-066	SS87E-2.5
384618-011	SS103J-1.5	384618-039	SS27J-2.5	384618-067	SS87F-0.5
384618-012	SS103J-2.5	384618-040	SS27K-0.5	384618-068	SS87F-1.5
384618-013	SS103K-0.5	384618-041	SS27K-1.5	384618-069	SS87F-2.5
384618-014	SS103K-1.5	384618-042	SS27K-2.5	384618-070	SS87G-0.5
384618-015	SS103K-2.5	384618-043	SS27L-0.5	384618-071	SS87G-1.5
384618-016	SS103L-0.5	384618-044	SS27L-1.5	384618-072	SS87G-2.5
384618-017	SS103L-1.5	384618-045	SS27L-2.5	384618-073	SS87H-0.5
384618-018	SS103L-2.5	384618-046	SS68E-0.5	384618-074	SS87H-1.5
384618-019	SS96D-0.5	384618-047	SS68E-1.5	384618-075	SS87H-2.5
384618-020	SS96D-1.5	384618-048	SS68E-2.5	384618-076	SS80D-0.5
384618-021	SS96D-2.5	384618-049	SS68F-0.5	384618-077	SS80D-1.5
384618-022	SS96E-0.5	384618-050	SS68F-1.5	384618-078	SS80D-2.5
384618-023	SS96E-1.5	384618-051	SS68F-2.5	384618-079	SS80E-0.5
384618-024	SS96E-2.5	384618-052	SS68G-0.5	384618-080	SS77D-0.5
384618-025	SS93G-0.5	384618-053	SS68G-1.5	384618-081	SS77D-1.5
384618-026	SS93G-1.5	384618-054	SS68G-2.5	384618-082	SS77D-2.5
384618-027	SS93G-2.5	384618-055	SS68H-0.5	384618-083	SS77G-0.5
384618-028	SS93H-0.5	384618-056	SS68H-1.5	384618-084	SS77G-1.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 11/21/2016 08:28	Site:	
Sample #: 384618-001	Client Sample #: SS103G-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**145**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 11/21/2016 08:28	Site:	
Sample #: 384618-002	Client Sample #: SS103G-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**1.23**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 11/21/2016 08:28	Site:	
Sample #: 384618-003	Client Sample #: SS103G-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 11/21/2016 08:30	Site:	
Sample #: 384618-004	Client Sample #: SS103H-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**150**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 11/21/2016 08:30	Site:	
Sample #: 384618-005	Client Sample #: SS103H-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**14.7**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 11/21/2016 08:30	Site:	
Sample #: 384618-006	Client Sample #: SS103H-2.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 11/21/2016 08:21	Site:	
Sample #: 384618-007	Client Sample #: SS103I-0.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**92.0**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid	Client: Alta Environmental	Collector: Client
Sampled: 11/21/2016 08:21	Site:	
Sample #: 384618-008	Client Sample #: SS103I-1.5	Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**13.1**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:21 **Site:**
Sample #: 384618-009 **Client Sample #:** SS103I-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:23 **Site:**
Sample #: 384618-010 **Client Sample #:** SS103J-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**141**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:23 **Site:**
Sample #: 384618-011 **Client Sample #:** SS103J-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**27.2**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:23 **Site:**
Sample #: 384618-012 **Client Sample #:** SS103J-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:28 **Site:**
Sample #: 384618-013 **Client Sample #:** SS103K-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**68.0**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:29 **Site:**
Sample #: 384618-014 **Client Sample #:** SS103K-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**40.3**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:29 **Site:**
Sample #: 384618-015 **Client Sample #:** SS103K-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:27 **Site:**
Sample #: 384618-016 **Client Sample #:** SS103L-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**107**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:27	Site:			
Sample #:	384618-017	Client Sample #:	SS103L-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:27	Site:			
Sample #:	384618-018	Client Sample #:	SS103L-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:32	Site:			
Sample #:	384618-019	Client Sample #:	SS96D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**318**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:32	Site:			
Sample #:	384618-020	Client Sample #:	SS96D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**0.39 J**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	J

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:32	Site:			
Sample #:	384618-021	Client Sample #:	SS96D-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:32	Site:			
Sample #:	384618-022	Client Sample #:	SS96E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**248**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:32	Site:			
Sample #:	384618-023	Client Sample #:	SS96E-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**14.3**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:32	Site:			
Sample #:	384618-024	Client Sample #:	SS96E-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:45 **Site:**
Sample #: 384618-025 **Client Sample #:** SS93G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**60.8**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:46 **Site:**
Sample #: 384618-026 **Client Sample #:** SS93G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:46 **Site:**
Sample #: 384618-027 **Client Sample #:** SS93G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:44 **Site:**
Sample #: 384618-028 **Client Sample #:** SS93H-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:45 **Site:**
Sample #: 384618-029 **Client Sample #:** SS93H-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:45 **Site:**
Sample #: 384618-030 **Client Sample #:** SS93H-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:49 **Site:**
Sample #: 384618-031 **Client Sample #:** SS27G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**268**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172947		
Arsenic	**10.1**	20	0.4	6	mg/Kg	11/30/16	11/30/16	MH	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:53 **Site:**
Sample #: 384618-032 **Client Sample #:** SS27G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**96.6**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:53 **Site:**
Sample #: 384618-033 **Client Sample #:** SS27G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174572		
Lead	**13.2**	1	0.32	0.5	mg/Kg	01/23/17	01/23/17	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:38 **Site:**
Sample #: 384618-034 **Client Sample #:** SS27I-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**58.5**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:38 **Site:**
Sample #: 384618-035 **Client Sample #:** SS27I-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:38 **Site:**
Sample #: 384618-036 **Client Sample #:** SS27I-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:40 **Site:**
Sample #: 384618-037 **Client Sample #:** SS27J-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:41 **Site:**
Sample #: 384618-038 **Client Sample #:** SS27J-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 08:42 **Site:**
Sample #: 384618-039 **Client Sample #:** SS27J-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:35	Site:			
Sample #:	384618-040	Client Sample #:	SS27K-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:38	Site:			
Sample #:	384618-041	Client Sample #:	SS27K-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:40	Site:			
Sample #:	384618-042	Client Sample #:	SS27K-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:41	Site:			
Sample #:	384618-043	Client Sample #:	SS27L-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**24.4**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:41	Site:			
Sample #:	384618-044	Client Sample #:	SS27L-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:42	Site:			
Sample #:	384618-045	Client Sample #:	SS27L-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:19	Site:			
Sample #:	384618-046	Client Sample #:	SS68E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**58.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:20	Site:			
Sample #:	384618-047	Client Sample #:	SS68E-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:21	Site:			
Sample #:	384618-048	Client Sample #:	SS68E-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:21	Site:			
Sample #:	384618-049	Client Sample #:	SS68F-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:24	Site:			
Sample #:	384618-050	Client Sample #:	SS68F-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:25	Site:			
Sample #:	384618-051	Client Sample #:	SS68F-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:24	Site:			
Sample #:	384618-052	Client Sample #:	SS68G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**166**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:24	Site:			
Sample #:	384618-053	Client Sample #:	SS68G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**4.53**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:25	Site:			
Sample #:	384618-054	Client Sample #:	SS68G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:27	Site:			
Sample #:	384618-055	Client Sample #:	SS68H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**36.3**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:27	Site:			
Sample #:	384618-056	Client Sample #:	SS68H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:28	Site:			
Sample #:	384618-057	Client Sample #:	SS68H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:41	Site:			
Sample #:	384618-058	Client Sample #:	SS79G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**101**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:42	Site:			
Sample #:	384618-059	Client Sample #:	SS79G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**9.24**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:42	Site:			
Sample #:	384618-060	Client Sample #:	SS79G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:32	Site:			
Sample #:	384618-061	Client Sample #:	SS79H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**192**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:33	Site:			
Sample #:	384618-062	Client Sample #:	SS79H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**22.6**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:34	Site:			
Sample #:	384618-063	Client Sample #:	SS79H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:19	Site:			
Sample #:	384618-064	Client Sample #:	SS87E-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**97.1**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:20	Site:			
Sample #:	384618-065	Client Sample #:	SS87E-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**10.4**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:20	Site:			
Sample #:	384618-066	Client Sample #:	SS87E-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:15	Site:			
Sample #:	384618-067	Client Sample #:	SS87F-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**21.9**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:15	Site:			
Sample #:	384618-068	Client Sample #:	SS87F-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:15	Site:			
Sample #:	384618-069	Client Sample #:	SS87F-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:28	Site:			
Sample #:	384618-070	Client Sample #:	SS87G-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**99.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:29	Site:			
Sample #:	384618-071	Client Sample #:	SS87G-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	18.4	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:29	Site:			
Sample #:	384618-072	Client Sample #:	SS87G-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:19	Site:			
Sample #:	384618-073	Client Sample #:	SS87H-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	68.0	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:20	Site:			
Sample #:	384618-074	Client Sample #:	SS87H-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:20	Site:			
Sample #:	384618-075	Client Sample #:	SS87H-2.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	N/A	1							

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:00	Site:			
Sample #:	384618-076	Client Sample #:	SS80D-0.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	32.3	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:02	Site:			
Sample #:	384618-077	Client Sample #:	SS80D-1.5	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	3.20	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:02 **Site:**
Sample #: 384618-078 **Client Sample #:** SS80D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:02 **Site:**
Sample #: 384618-079 **Client Sample #:** SS80E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**19.6**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:21 **Site:**
Sample #: 384618-080 **Client Sample #:** SS77D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**848**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:22 **Site:**
Sample #: 384618-081 **Client Sample #:** SS77D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173294		
Lead	**1.38**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:22 **Site:**
Sample #: 384618-082 **Client Sample #:** SS77D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:19 **Site:**
Sample #: 384618-083 **Client Sample #:** SS77G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**165**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:19 **Site:**
Sample #: 384618-084 **Client Sample #:** SS77G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173295		
Lead	**9.15**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:19 **Site:**
Sample #: 384618-085 **Client Sample #:** SS77G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-086 **Client Sample #:** SS76D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**54.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-087 **Client Sample #:** SS76D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-088 **Client Sample #:** SS76D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:21 **Site:**
Sample #: 384618-089 **Client Sample #:** SS76E-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:24 **Site:**
Sample #: 384618-090 **Client Sample #:** SS76E-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:25 **Site:**
Sample #: 384618-091 **Client Sample #:** SS76E-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:45 **Site:**
Sample #: 384618-092 **Client Sample #:** SS74D-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**43.1**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:46 **Site:**
Sample #: 384618-093 **Client Sample #:** SS74D-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:47 **Site:**
Sample #: 384618-094 **Client Sample #:** SS74D-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:38 **Site:**
Sample #: 384618-095 **Client Sample #:** SS70F-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172940		
Lead	**109**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:38 **Site:**
Sample #: 384618-096 **Client Sample #:** SS70F-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173295		
Lead	**13.8**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:39 **Site:**
Sample #: 384618-097 **Client Sample #:** SS70F-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:29 **Site:**
Sample #: 384618-098 **Client Sample #:** SS70G-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1173295		
Lead	**132**	1	0.32	0.5	mg/Kg	12/12/16	12/13/16	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:29 **Site:**
Sample #: 384618-099 **Client Sample #:** SS70G-1.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1174225		
Lead	**18.0**	1	0.32	0.5	mg/Kg	01/11/17	01/13/17	JN	

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:30 **Site:**
Sample #: 384618-100 **Client Sample #:** SS70G-2.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix: Solid **Client:** Alta Environmental **Collector:** Client
Sampled: 11/21/2016 10:35 **Site:**
Sample #: 384618-101 **Client Sample #:** SS70H-0.5 **Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**78.7**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 10:36	**Site:**			
Sample #:	**384618-102**	**Client Sample #:**	SS70H-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 10:37	**Site:**			
Sample #:	**384618-103**	**Client Sample #:**	SS70H-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 10:43	**Site:**			
Sample #:	**384618-104**	**Client Sample #:**	SS70I-0.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 10:44	**Site:**			
Sample #:	**384618-105**	**Client Sample #:**	SS70I-1.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 10:45	**Site:**			
Sample #:	**384618-106**	**Client Sample #:**	SS70I-2.5	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method:	Prep Method:						QCBatchID:		
N/A	**N/A**	1							

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:29	**Site:**			
Sample #:	**384618-107**	**Client Sample #:**	SS103K-0.5DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**81.6**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 08:45	**Site:**			
Sample #:	**384618-108**	**Client Sample #:**	SS93G-0.5DUP	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**25.3**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 08:50	Site:			
Sample #:	384618-109	Client Sample #:	SS27G-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**33.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	
Method: EPA 6020 NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172947		
Arsenic	**9.34**	20	0.4	6	mg/Kg	11/30/16	11/30/16	MH	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 09:19	Site:			
Sample #:	384618-110	Client Sample #:	SS87E-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**85.4**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:30	Site:			
Sample #:	384618-111	Client Sample #:	SS76D-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**50.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:21	Site:			
Sample #:	384618-112	Client Sample #:	SS77D-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**242**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:00	Site:			
Sample #:	384618-113	Client Sample #:	SS80D-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**127**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 10:35	Site:			
Sample #:	384618-114	Client Sample #:	SS70H-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**65.2**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Solid	Client:	Alta Environmental	Collector:	Client
Sampled:	11/21/2016 11:19	Site:			
Sample #:	384618-115	Client Sample #:	SS68E-0.5DUP	Sample Type:	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC	Prep Method: EPA 3050B						QCBatchID: QC1172941		
Lead	**53.9**	1	0.32	0.5	mg/Kg	11/30/16	11/30/16	JN	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:40	**Site:**			
Sample #:	**384618-116**	**Client Sample #:**	EB112116A	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1172781		
Lead	ND	1	0.004	0.005	mg/L	11/23/16	11/23/16	KLN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1172783		
Arsenic	ND	1	0.13	2	ug/L	11/23/16	11/23/16	MH	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	11/21/2016 11:40	**Site:**			
Sample #:	**384618-117**	**Client Sample #:**	EB112116B	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1172781		
Lead	ND	1	0.004	0.005	mg/L	11/23/16	11/23/16	KLN	
Method: EPA 6020 *NELAC*	Prep Method: EPA 3010A						QCBatchID: QC1172783		
Arsenic	ND	1	0.13	2	ug/L	11/23/16	11/23/16	MH	

QCBatchID: QC1172781	Analyst: dswafford	Method: EPA 6010B
Matrix: Water	Analyzed: 11/23/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172781MB1					
Arsenic	ND	mg/L	0.004	0.01	
Lead	ND	mg/L	0.004	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172781LCS1											
Arsenic	2		1.79		mg/L	90			80-120		
Lead	2		1.76		mg/L	88			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172781MS1, QC1172781MSD1												**Source: 384618-116**
Arsenic	ND	1	1	0.964	0.887	mg/L	96	89	8.3	75-125	20	
Lead	ND	1	1	0.944	0.877	mg/L	94	88	7.4	75-125	20	

QCBatchID: QC1172783	Analyst: dswafford	Method: EPA 6020
Matrix: Water	Analyzed: 11/23/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172783MB1					
Arsenic	ND	ug/L	0.13	2	
Copper	ND	ug/L	0.11	3	
Lead	ND	ug/L	0.1	5	
Zinc	**2.62 J**	ug/L	0.16	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172783LCS1											
Arsenic	50		52.9		ug/L	106			80-120		
Copper	50		51.6		ug/L	103			80-120		
Lead	50		50.6		ug/L	101			80-120		
Zinc	50		57.3		ug/L	115			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172783MS1, QC1172783MSD1												**Source: 384404-054**
Arsenic	ND	50	50	52.5	53.1	ug/L	105	106	1.1	75-125	20	
Copper	1.66	50	50	52.8	53.1	ug/L	102	103	0.6	75-125	20	
Lead	0.2	50	50	52.5	53.6	ug/L	105	107	2.1	75-125	20	
Zinc	80.9	50	50	132	138	ug/L	102	114	4.4	75-125	20	

QCBatchID: QC1172940	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172940MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940LCS1											
Antimony	100		95.6		mg/Kg	96			80-120		
Arsenic	100		95.3		mg/Kg	95			80-120		
Barium	100		106		mg/Kg	106			80-120		
Beryllium	100		106		mg/Kg	106			80-120		
Cadmium	100		99.5		mg/Kg	100			80-120		
Chromium	100		106		mg/Kg	106			80-120		
Cobalt	100		108		mg/Kg	108			80-120		
Copper	100		108		mg/Kg	108			80-120		
Lead	100		102		mg/Kg	102			80-120		
Molybdenum	100		90.8		mg/Kg	91			80-120		
Nickel	100		106		mg/Kg	106			80-120		
Selenium	100		93.6		mg/Kg	94			80-120		
Silver	100		98.9		mg/Kg	99			80-120		
Thallium	100		97.4		mg/Kg	97			80-120		
Vanadium	100		109		mg/Kg	109			80-120		
Zinc	100		105		mg/Kg	105			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940MS1, QC1172940MSD1												**Source: 384593-001**
Antimony	2.32	100	100	34.8	38.3	mg/Kg	32	36	9.6	75-125	20	M
Arsenic	107	100	100	217	218	mg/Kg	110	111	0.5	75-125	20	
Barium	654	100	100	915	823	mg/Kg	261	169	10.6	75-125	20	NC
Beryllium	ND	100	100	95.2	95.9	mg/Kg	95	96	0.7	75-125	20	
Cadmium	5.23	100	100	105	104	mg/Kg	100	99	1.0	75-125	20	
Chromium	13.0	100	100	109	108	mg/Kg	96	95	0.9	75-125	20	
Cobalt	27.4	100	100	119	120	mg/Kg	92	93	0.8	75-125	20	
Copper	1500	100	100	1880	1710	mg/Kg	380	210	9.5	75-125	20	NC
Lead	68.9	100	100	158	157	mg/Kg	89	88	0.6	75-125	20	

QCBatchID: QC1172940	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172940MS1, QC1172940MSD1											**Source:**	**384593-001**
Molybdenum	3.59	100	100	98.4	98.9	mg/Kg	95	95	0.5	75-125	20	
Nickel	2.63	100	100	90.6	91.5	mg/Kg	88	89	1.0	75-125	20	
Selenium	20.9	100	100	114	113	mg/Kg	93	92	0.9	75-125	20	
Silver	1.23	100	100	97.6	96.7	mg/Kg	96	95	0.9	75-125	20	
Thallium	0.95	100	100	96.5	95.0	mg/Kg	96	94	1.6	75-125	20	
Vanadium	21.8	100	100	124	122	mg/Kg	102	100	1.6	75-125	20	
Zinc	4120	100	100	4390	4410	mg/Kg	270	290	0.5	75-125	20	NC

QCBatchID: QC1172941	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1172941MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941LCS1											
Antimony	100		101		mg/Kg	101			80-120		
Arsenic	100		99.8		mg/Kg	100			80-120		
Barium	100		103		mg/Kg	103			80-120		
Beryllium	100		102		mg/Kg	102			80-120		
Cadmium	100		99.4		mg/Kg	99			80-120		
Chromium	100		104		mg/Kg	104			80-120		
Cobalt	100		109		mg/Kg	109			80-120		
Copper	100		104		mg/Kg	104			80-120		
Lead	100		102		mg/Kg	102			80-120		
Molybdenum	100		96.1		mg/Kg	96			80-120		
Nickel	100		108		mg/Kg	108			80-120		
Selenium	100		95.6		mg/Kg	96			80-120		
Silver	100		101		mg/Kg	101			80-120		
Thallium	100		104		mg/Kg	104			80-120		
Vanadium	100		104		mg/Kg	104			80-120		
Zinc	100		103		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941MS1, QC1172941MSD1												**Source: 384618-101**
Antimony	ND	100	100	27.7	23.9	mg/Kg	30	26	14.7	75-125	20	M
Arsenic	4.72	100	100	101	97.0	mg/Kg	96	92	4.0	75-125	20	
Barium	92.4	100	100	194	188	mg/Kg	102	96	3.1	75-125	20	
Beryllium	ND	100	100	98.2	91.4	mg/Kg	100	93	7.2	75-125	20	
Cadmium	0.55	100	100	93.6	90.0	mg/Kg	93	89	3.9	75-125	20	
Chromium	13.5	100	100	110	108	mg/Kg	97	95	1.8	75-125	20	
Cobalt	7.15	100	100	106	101	mg/Kg	99	94	4.8	75-125	20	
Copper	20.0	100	100	124	117	mg/Kg	104	97	5.8	75-125	20	
Lead	78.7	100	100	169	175	mg/Kg	90	96	3.5	75-125	20	

QCBatchID: QC1172941	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172941MS1, QC1172941MSD1												**Source: 384618-101**
Molybdenum	ND	100	100	87.4	82.1	mg/Kg	87	82	6.3	75-125	20	
Nickel	10.5	100	100	108	103	mg/Kg	98	93	4.7	75-125	20	
Selenium	ND	100	100	60.7	55.2	mg/Kg	91	85	9.5	75-125	20	
Silver	ND	100	100	95.5	88.8	mg/Kg	95	89	7.3	75-125	20	
Thallium	ND	100	100	89.8	86.8	mg/Kg	92	89	3.4	75-125	20	
Vanadium	26.8	100	100	127	122	mg/Kg	100	95	4.0	75-125	20	
Zinc	135	100	100	233	245	mg/Kg	98	110	5.0	75-125	20	

QCBatchID: QC1172947	Analyst: dswafford	Method: EPA 6020
Matrix: Solid	Analyzed: 11/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result		Units	MDL	RDL	Notes
QC1172947MB1						
Antimony	ND		mg/Kg	0.06	0.5	
Arsenic	**0.025**	**J**	mg/Kg	0.02	0.3	
Barium	**0.033**	**J**	mg/Kg	0.02	0.5	
Beryllium	ND		mg/Kg	0.02	0.5	
Cadmium	ND		mg/Kg	0.02	0.5	
Chromium	ND		mg/Kg	0.02	0.5	
Cobalt	ND		mg/Kg	0.02	0.5	
Copper	ND		mg/Kg	0.02	0.5	
Lead	**0.351**	**J**	mg/Kg	0.02	0.5	
Molybdenum	**0.043**	**J**	mg/Kg	0.02	0.5	
Nickel	ND		mg/Kg	0.04	0.5	
Selenium	**0.078**	**J**	mg/Kg	0.04	0.5	
Silver	ND		mg/Kg	0.02	0.5	
Thallium	ND		mg/Kg	0.02	0.5	
Vanadium	ND		mg/Kg	0.02	0.5	
Zinc	**2.60**		mg/Kg	0.09	1	B

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1172947LCS1											
Antimony	50		52.5		mg/Kg	105			80-120		
Arsenic	50		52.6		mg/Kg	105			80-120		
Barium	50		51.6		mg/Kg	103			80-120		
Beryllium	50		51.9		mg/Kg	104			80-120		
Cadmium	50		52.5		mg/Kg	105			80-120		
Chromium	50		51.5		mg/Kg	103			80-120		
Cobalt	50		50.4		mg/Kg	101			80-120		
Copper	50		51.5		mg/Kg	103			80-120		
Lead	50		53.5		mg/Kg	107			80-120		
Molybdenum	50		52.2		mg/Kg	104			80-120		
Nickel	50		50.6		mg/Kg	101			80-120		
Selenium	50		52.2		mg/Kg	104			80-120		
Silver	50		49.3		mg/Kg	99			80-120		
Thallium	50		51.3		mg/Kg	103			80-120		
Vanadium	50		52.3		mg/Kg	105			80-120		
Zinc	50		52.4		mg/Kg	105			80-120		

QCBatchID:	QC1173294	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	12/12/2016	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1173294MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1173294LCS1											
Lead	100		103		mg/Kg	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1173294MS1, QC1173294MSD1												**Source: 384618-081**
Lead	1.38	100	100	87.4	86.6	mg/Kg	86	85	0.9	75-125	20	

QCBatchID: QC1173295	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 12/12/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1173295MB1					
Iron	ND	mg/Kg	0.4	5	
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1173295LCS1											
Iron	100		114		mg/Kg	114			80-120		
Lead	100		92.9		mg/Kg	93			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1173295MS1, QC1173295MSD1												**Source: 384618-084**
Iron	25400	100	100	22900	22100	mg/Kg	0	0	3.6	75-125	20	NC
Lead	9.15	100	100	99.2	89.5	mg/Kg	90	80	10.3	75-125	20	

QCBatchID:	QC1174225	Analyst:	dswafford	Method:	EPA 6010B
Matrix:	Solid	Analyzed:	01/11/2017	Instrument:	AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1174225MB1					
Lead	ND	mg/Kg	0.32	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1174225LCS1											
Lead	100		108		mg/Kg	108			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1174225MS1, QC1174225MSD1												**Source: 384618-005**
Lead	14.7	100	100	110	114	mg/Kg	95	99	3.6	75-125	20	

QCBatchID: QC1174572	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 01/23/2017	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1174572MB1					
Antimony	ND	mg/Kg	0.37	3	
Arsenic	ND	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	**3.17**	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	**0.36 J**	mg/Kg	0.32	0.5	
Molybdenum	ND	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
Selenium	ND	mg/Kg	0.72	1	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	1	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	**1.28 J**	mg/Kg	0.28	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1174572LCS1											
Antimony	100		95.0		mg/Kg	95			80-120		
Arsenic	100		94.8		mg/Kg	95			80-120		
Barium	100		105		mg/Kg	105			80-120		
Beryllium	100				mg/Kg				80-120		
Cadmium	100		104		mg/Kg	104			80-120		
Chromium	100		99.4		mg/Kg	99			80-120		
Cobalt	100		102		mg/Kg	102			80-120		
Copper	100		97.2		mg/Kg	97			80-120		
Lead	100		102		mg/Kg	102			80-120		
Molybdenum	100		102		mg/Kg	102			80-120		
Nickel	100		102		mg/Kg	102			80-120		
Selenium	100		92.4		mg/Kg	92			80-120		
Silver	100		89.8		mg/Kg	90			80-120		
Thallium	100		99.9		mg/Kg	100			80-120		
Vanadium	100		102		mg/Kg	102			80-120		
Zinc	100		104		mg/Kg	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1174572MS1, QC1174572MSD1												**Source: 386813-001**
Antimony	15.1	100	100	75.3	77.1	mg/Kg	60	62	2.4	75-125	20	M
Arsenic	ND	100	100	76.6	77.2	mg/Kg	77	77	0.8	75-125	20	
Barium	80.2	100	100	179	180	mg/Kg	99	100	0.6	75-125	20	
Beryllium	-191.00	100	100			mg/Kg				75-125	20	
Cadmium	ND	100	100	92.5	91.5	mg/Kg	93	92	1.1	75-125	20	
Chromium	1280	100	100	1390	1430	mg/Kg	110	150	2.8	75-125	20	NC
Cobalt	7.04	100	100	93.0	93.8	mg/Kg	86	87	0.9	75-125	20	
Copper	2.74	100	100	90.8	91.5	mg/Kg	88	89	0.8	75-125	20	
Lead	0.66	100	100	85.8	86.8	mg/Kg	85	86	1.2	75-125	20	

QCBatchID: QC1174572	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 01/23/2017	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1174572MS1, QC1174572MSD1											**Source:**	**386813-001**
Molybdenum	93.8	100	100	183	186	mg/Kg	89	92	1.6	75-125	20	
Nickel	974	100	100	1070	1080	mg/Kg	96	106	0.9	75-125	20	
Selenium	ND	100	100	75.0	77.6	mg/Kg	75	78	3.4	75-125	20	
Silver	0.46	100	100	80.6	81.0	mg/Kg	80	81	0.5	75-125	20	
Thallium	ND	100	100	71.2	72.9	mg/Kg	71	73	2.4	75-125	20	M
Vanadium	6.55	100	100	96.9	95.8	mg/Kg	90	89	1.1	75-125	20	
Zinc	3.91	100	100	95.2	93.5	mg/Kg	91	90	1.8	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 1 of 17	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS2E-0.5~~ EF	11/21/16	NA	Soil	1-8oz Jar	None		X								NOT COLLECTED (NC)
2	~~SS2E-1.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
3	~~SS2E-2.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
4	~~SS2F-0.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
5	~~SS2F-1.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
6	~~SS2F-2.5~~ EF	11/21/16		Soil	1-8oz Jar	None										Hold and Archive NC
7	SS103G-0.5	11/21/16	08:28	Soil	1-8oz Jar	None		X								
8	SS103G-1.5	11/21/16	08:28	Soil	1-8oz Jar	None										Hold and Archive
9	SS103G-2.5	11/21/16	08:28	Soil	1-8oz Jar	None										Hold and Archive
10	SS103H-0.5	11/21/16	08:30	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	EF	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	L. Marrolett		11/21/16 1203
2 Relinquished By:	[illegible]	L. Marrolett		11/21/16 1258
2 Received By:	[illegible]	[illegible]		11/21/16 1355
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS103H-1.5	11/21/16	08:30	Soil	1-8oz Jar	None											Hold and Archve
2	SS103H-2.5	11/21/16	08:30	Soil	1-8oz Jar	None											Hold and Archve
3	SS103I-0.5	11/21/16	08:21	Soil	1-8oz Jar	None		x									
4	SS103I-1.5	11/21/16	08:21	Soil	1-8oz Jar	None											Hold and Archive
5	SS103I-2.5	11/21/16	08:21	Soil	1-8oz Jar	None											Hold and Archive
6	SS103J-0.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
7	SS103J-1.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
8	SS103J-2.5	11/21/16	08:23	Soil	1-8oz Jar	None											Hold and Archive
9	SS103K-0.5	11/21/16	08:28	Soil	1-8oz Jar	None		x									
10	SS103K-1.5	11/21/16	08:29	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	EFL	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marrolett		11/21/16 1203
2 Relinquished By:	[signature]	L. Marrolett		11/21/16 1255
2 Received By:	[signature]	TD		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 38-4618 Page: 3 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS103K-2.5	11/21/16	08:29	Soil	1-8oz Jar	None											Hold and Archive
2	SS103L-0.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
3	SS103L-1.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
4	SS103L-2.5	11/21/16	08:27	Soil	1-8oz Jar	None											Hold and Archive
5	SS96D-0.5	11/21/16	08:32	Soil	1-8oz Jar	None		x									
6	SS96D-1.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
7	SS96D-2.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
8	SS96E-0.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
9	SS96E-1.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive
10	SS96E-2.5	11/21/16	08:32	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Maccarotti		11/21/16 1203
2 Relinquished By:	[signature]	L. Maccarotti		11/21/16 1255
2 Received By:	[signature]	[signature]		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 4 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS93G-0.5	11/21/16	08:45	Soil	1-8oz Jar	None		x	
2	SS93G-1.5	11/21/16	08:46	Soil	1-8oz Jar	None			Hold and Archive
3	SS93G-2.5	11/21/16	08:46	Soil	1-8oz Jar	None			Hold and Archive
4	SS93H-0.5	11/21/16	08:44	Soil	1-8oz Jar	None			Hold and Archive
5	SS93H-1.5	11/21/16	08:45	Soil	1-8oz Jar	None			Hold and Archive
6	SS93H-2.5	11/21/16	08:45	Soil	1-8oz Jar	None			Hold and Archive
7	SS27G-0.5	11/21/16	08:49	Soil	1-8oz Jar	None	x	x	
8	SS27G-1.5	11/21/16	08:53	Soil	1-8oz Jar	None			Hold and Archive
9	SS27G-2.5	11/21/16	08:53	Soil	1-8oz Jar	None			Hold and Archive
10	~~SS27H-0.5~~ EF	~~11/21/16~~	~~NA~~	Soil	1-8oz Jar	None	x	x	Not Collected

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marrokitti		11/21/16 1203
2 Relinquished By:	[signature]	L. Marrokitti		11/21/16 1255
2 Received By:	[signature]	Tony		11/21/16 1257
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
806 N. Batavia St., Orange, CA 92868	Lab No: 384618	Standard:	X	4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 5 of 17	2 Day:		1 Day:		Same Day:	
Billing: Enthalpy - SoCal	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
1 Park Plaza, Suite 1000, Irvine, CA 92614							

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS27H-1.5~~ EF	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS27H-2.5~~ EF	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
3	SS27I-0.5	11/21/16	08:38	Soil	1-8oz Jar	None		x								
4	SS27I-1.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive
5	SS27I-2.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive
6	SS27J-0.5	11/21/16	08:40	Soil	1-8oz Jar	None										Hold and Archive
7	SS27J-1.5	11/21/16	08:41	Soil	1-8oz Jar	None										Hold and Archive
8	SS27J-2.5	11/21/16	08:42	Soil	1-8oz Jar	None										Hold and Archive
9	SS27K-0.5	11/21/16	08:35	Soil	1-8oz Jar	None										Hold and Archive
10	SS27K-1.5	11/21/16	08:38	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	L. Marcelletti		~~11/21/1203~~ 11/21/16 1203
2 Relinquished By:	[signature]	L. Marcelletti		11/21/16 1255
2 Received By:	[signature]	Tony B		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 6 of 17	Standard: X 4 Day: 3 Day: 2 Day: 1 Day: Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPHY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS27K-2.5	11/21/16	08:40	Soil	1-8oz Jar	None											Hold and Archive
2	SS27L-0.5	11/21/16	08:41	Soil	1-8oz Jar	None		x									
3	SS27L-1.5	11/21/16	08:41	Soil	1-8oz Jar	None											Hold and Archive
4	SS27L-2.5	11/21/16	08:42	Soil	1-8oz Jar	None											Hold and Archive
5	SS68E-0.5	11/21/16	11:19	Soil	1-8oz Jar	None		x									
6	SS68E-1.5	11/21/16	11:20	Soil	1-8oz Jar	None											Hold and Archive
7	SS68E-2.5	11/21/16	11:21	Soil	1-8oz Jar	None											Hold and Archive
8	SS68F-0.5	11/21/16	11:21	Soil	1-8oz Jar	None											Hold and Archive
9	SS68F-1.5	11/21/16	11:24	Soil	1-8oz Jar	None											Hold and Archive
10	SS68F-2.5	11/21/16	11:25	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	C. Marrolatti		11/21/16 1203
2 Relinquished By:	[illegible]	C. Marrolatti		11/21/16 1255
2 Received By:	[illegible]	Tony P		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 7 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS68G-0.5	11/21/16	11:24	Soil	1-8oz Jar	None		x									
2	SS68G-1.5	11/21/16	11:24	Soil	1-8oz Jar	None											Hold and Archive
3	SS68G-2.5	11/21/16	11:25	Soil	1-8oz Jar	None											Hold and Archive
4	SS68H-0.5	11/21/16	11:27	Soil	1-8oz Jar	None											Hold and Archive
5	SS68H-1.5	11/21/16	11:27	Soil	1-8oz Jar	None											Hold and Archive
6	SS68H-2.5	11/21/16	11:28	Soil	1-8oz Jar	None											Hold and Archive
7	SS79G-0.5	11/21/16	09:41	Soil	1-8oz Jar	None		x									
8	SS79G-1.5	11/21/16	09:42	Soil	1-8oz Jar	None											Hold and Archive
9	SS79G-2.5	11/21/16	09:42	Soil	1-8oz Jar	None											Hold and Archive
10	SS79H-0.5	11/21/16	09:32	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[illegible]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[illegible]	L. Marcelletti		11/21/16 1203
2 Relinquished By:	[illegible]	L. Marcelletti		11/21/16 1255
2 Received By:	[illegible]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 8 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS79H-1.5	11/21/16	09:33	Soil	1-8oz Jar	None											Hold and Archive
2	SS79H-2.5	11/21/16	09:34	Soil	1-8oz Jar	None											Hold and Archive
3	~~SS79I-0.5~~ EF	11/21/16	NA	Soil	1-8oz Jar	None		x									Not collected (NC)
4	~~SS79I-1.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
5	~~SS79I-2.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
6	~~SS79J-0.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
7	~~SS79J-1.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
8	~~SS79J-2.5~~	11/21/16		Soil	1-8oz Jar	None											~~Hold and Archive~~ NC
9	~~SS88D-0.5~~	11/21/16		Soil	1-8oz Jar	None	x	x									Not collected (NC)
10	~~SS88D-1.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive NC

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marcelletti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marcelletti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 9 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS88D-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS88E-0.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
3	~~SS88E-1.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
4	~~SS88E-2.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
5	SS87E-0.5	11/21/16	09:19	Soil	1-8oz Jar	None		x								
6	SS87E-1.5	11/21/16	09:20	Soil	1-8oz Jar	None										Hold and Archive
7	SS87E-2.5	11/21/16	09:20	Soil	1-8oz Jar	None										Hold and Archive
8	SS87F-0.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive
9	SS87F-1.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive
10	SS87F-2.5	11/21/16	09:15	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
[1] Received By:	[signature]	C. Marrolette		11/21/16 1203
[2] Relinquished By:	[signature]	C. Marrolette		11/21/16 1251
[2] Received By:	[signature]	Tony D		11/21/16 1255
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 3846618 Page: 10 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS87G-0.5	11/21/16	09:28	Soil	1-8oz Jar	None		x									
2	SS87G-1.5	11/21/16	09:29	Soil	1-8oz Jar	None											Hold and Archive
3	SS87G-2.5	11/21/16	09:29	Soil	1-8oz Jar	None											Hold and Archive
4	SS87H-0.5	11/21/16	09:19	Soil	1-8oz Jar	None											Hold and Archive
5	SS87H-1.5	11/21/16	09:20	Soil	1-8oz Jar	None											Hold and Archive
6	SS87H-2.5	11/21/16	09:20	Soil	1-8oz Jar	None											Hold and Archive
7	SS80D-0.5	11/21/16	10:00	Soil	1-8oz Jar	None		x									
8	SS80D-1.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive
9	SS80D-2.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive
10	SS80E-0.5	11/21/16	10:02	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
[1] Received By:	[signature]	C. Marcolotti		11/21/16 1203
[2] Relinquished By:	[signature]	C. Marcolotti		11/21/16 1255
[2] Received By:	[signature]	Tony D		11/21/16 1255
[3] Relinquished By:				
[3] Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 3846618 Page: 11 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS80E-1.5~~ Not collected	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	~~SS80E-2.5~~ Not collected	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
3	SS77D-0.5	11/21/16	10:21	Soil	1-8oz Jar	None		x								
4	SS77D-1.5	11/21/16	10:22	Soil	1-8oz Jar	None										Hold and Archive
5	SS77D-2.5	11/21/16	10:22	Soil	1-8oz Jar	None										Hold and Archive
6	~~SS77E-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
7	~~SS77E-1.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
8	~~SS77E-2.5~~	11/21/16		Soil	1-8oz Jar	None										Hold and Archive
9	~~SS77F-0.5~~	~~11/21/16~~	NA	Soil	1-8oz Jar	None		x								Not collected
10	~~SS77F-1.5~~	~~11/21/16~~	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	E. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	E. Marrolotti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 38U618 Page: 12 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	~~SS77F-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
2	SS77G-0.5	11/21/16	10:19	Soil	1-8oz Jar	None		x								
3	SS77G-1.5	11/21/16	10:19	Soil	1-8oz Jar	None										Hold and Archive
4	SS77G-2.5	11/21/16	10:19	Soil	1-8oz Jar	None										Hold and Archive
5	~~SS77H-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None										~~Hold and Archive~~ Not collected
6	~~SS77H-1.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~ ↓
7	~~SS77H-2.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~ ↓
8	SS76D-0.5	11/21/16	10:30	Soil	1-8oz Jar	None		x								
9	SS76D-1.5	11/21/16	10:30	Soil	1-8oz Jar	None										Hold and Archive
10	SS76D-2.5	11/21/16	10:30	Soil	1-8oz Jar	None										Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolette		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolette		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1265
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 13 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)								Test Instructions / Comments
1	SS76E-0.5	11/21/16	10:21	Soil	1-8oz Jar	None										Hold and Archive
2	SS76E-1.5	11/21/16	10:24	Soil	1-8oz Jar	None										Hold and Archive
3	SS76E-2.5	11/21/16	10:25	Soil	1-8oz Jar	None										Hold and Archive
4	~~SS76F-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None		x								Not collected
5	~~SS76E-1.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~
6	~~SS76F-2.5~~	11/21/16	↓	Soil	1-8oz Jar	None										~~Hold and Archive~~
7	~~SS74D-0.5~~ ~~OK~~ EF	11/21/16	10:45	Soil	1-8oz Jar	None		x								
8	SS74D-1.5	11/21/16	10:46	Soil	1-8oz Jar	None										Hold and Archive
9	SS74D-2.5	11/21/16	10:47	Soil	1-8oz Jar	None										Hold and Archive
10	~~SS70D-0.5~~ ~~NA~~	11/21/16	NA	Soil	1-8oz Jar	None		x								Not collected

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrokki		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrokki		11/21/16 1253
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 2846018 Page: 14 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPHY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	~~SS70D-1.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive Not collected
2	~~SS70D-2.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
3	~~SS70E-0.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
4	~~SS70E-1.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
5	~~SS70E-2.5~~	11/21/16		Soil	1-8oz Jar	None											Hold and Archive
6	SS70F-0.5	11/21/16	10:38	Soil	1-8oz Jar	None		x									
7	SS70F-1.5	11/21/16	10:38	Soil	1-8oz Jar	None											Hold and Archive
8	SS70F-2.5	11/21/16	10:39	Soil	1-8oz Jar	None											Hold and Archive
9	SS70G-0.5	11/21/16	10:29	Soil	1-8oz Jar	None											Hold and Archive
10	SS70G-1.5	11/21/16	10:29	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Eric Fraske	Alta Environmental	11/21/2016
1 Received By:		C. Marrolletti		11/21/16 1203
2 Relinquished By:		C. Marrolletti		11/21/16 1255
2 Received By:		Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 15 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	SS70G-2.5	11/21/16	10:30	Soil	1-8oz Jar	None											Hold and Archive
2	SS70H-0.5	11/21/16	10:35	Soil	1-8oz Jar	None		x									
3	SS70H-1.5	11/21/16	10:36	Soil	1-8oz Jar	None											Hold and Archive
4	SS70H-2.5	11/21/16	10:37	Soil	1-8oz Jar	None											Hold and Archive
5	SS70I-0.5	11/21/16	10:43	Soil	1-8oz Jar	None											Hold and Archive
6	SS70I-1.5	11/21/16	10:44	Soil	1-8oz Jar	None											Hold and Archive
7	SS70I-2.5	11/21/16	10:45	Soil	1-8oz Jar	None											Hold and Archive
8	~~SS76G-0.5~~	11/21/16	NA	Soil	1-8oz Jar	None											~~Hold and Archive~~ Not collected
9	~~SS76G-1.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive
10	~~SS76G-2.5~~	11/21/16	NA	Soil	1-8oz Jar	None											Hold and Archive

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolotti		11/21/16 1255
2 Received By:	[signature]	TOM D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 16 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	Test Instructions / Comments
1	SS103K-0.5DUP	11/21/16	08:29	Soil	1-8oz Jar	None		X	
2	SS93G-0.5DUP	11/21/16	08:45	Soil	1-8oz Jar	None		X	
3	SS27G-0.5DUP	11/21/16	08:50	Soil	1-8oz Jar	None	X	X	
4	SS87E-0.5DUP	11/21/16	09:19	Soil	1-8oz Jar	None		X	
5	SS76D-0.5DUP	11/21/16	10:30	Soil	1-8oz Jar	None		X	
6	SS77D-0.5DUP	11/21/16	10:21	Soil	1-8oz Jar	None		X	
7	SS80D-0.5DUP	11/21/16	10:00	Soil	1-8oz Jar	None		X	
8	SS70H-0.5DUP	11/21/16	10:35	Soil	1-8oz Jar	None		X	
9	SS68G-0.5DUP	11/21/16	11:19	Soil	1-8oz Jar	None		X	
10	EB112116A	11/21/16	11:40	~~Soil~~ H2O	~~1-8oz Jar~~ poly	~~None~~ 3	X	X	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolletti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolletti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 384618 Page: 16 of 17	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Thomas Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Avenue
	Long Beach, CA 90807		Los Angeles, California
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	EF

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)									Test Instructions / Comments
1	EB112116B	11/21/16	11:40	H2O	1 Poly	3	X	X									
2		11/21/16															
3		11/21/16															
4		11/21/16															
5		11/21/16															
6		11/21/16															
7		11/21/16															
8		11/21/16															
9		11/21/16															
10		11/21/16															

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Eric Fraske	Alta Environmental	11/21/2016
1 Received By:	[signature]	C. Marrolotti		11/21/16 1203
2 Relinquished By:	[signature]	C. Marrolotti		11/21/16 1255
2 Received By:	[signature]	Tony D		11/21/16 1255
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical, inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Alta

Project: _____

Date Received: 11/21/16

Sampler's Name Present: Yes No

Sample(s) received in a cooler? Yes How many? 1 No (skip section 2) Sample Temp (°C): _____

Sample Temp (°C) from each cooler: #1: 14.1 #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information: _____

Section 2

Was the cooler packed with: ✓ Ice ____ Ice Packs ____ Bubble Wrap ____ Styrofoam ____ Paper ____ None ____ Other _____

Cooler Temp (°C): #1: 1.9 #2: _____ #3: _____ #4: _____

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relinquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Section 4

Explanations/Comments: _____

Section 5

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____

Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: _____ Date: 11/21/16

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Friday, December 09, 2016 8:34 AM
To: Ranjit Clarke
Cc: Bina Patel
Subject: RE: Thomas Jefferson High School (11/21/16) - Enthalpy Analytical Final Report #384618

Hi Ranjit,

Can you please run the following samples collected and submitted as part of report 384618 for lead only by EPA Method 6010 on a standard TAT.

SS103G-1.5
SS103H-0.5
SS103I-1.5
SS103J-0.5
S96D-1.5
SS96E-0.5
SS27G-1.5
SS68G-1.5
SS68H-0.5
SS79G-1.5
SS79H-0.5
SS87E-1.5
SS87F-0.5
SS87G-1.5
SS87H-0.5
SS77D-1.5
SS77G-1.5
SS70F-1.5
SS70G-0.5
SS103K-1.5
SS103L-0.5
SS80D-1.5
SS80E-0.5

Eric Fraske, PE
Project Manager/Senior III

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3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
eric.fraske@altaenviron.com | www.altaenviron.com

If you are buying or developing real estate – time and information are crucial.
Download our **Free Environmental Due Diligence Search Tool** CLICK HERE.

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Monday, January 09, 2017 4:06 PM
To: Kristen Walker; Ranjit Clarke
Subject: RE: Enthalpy Analytical Final Report #384618

Hi Kristen and Ranjit,

Can I get the following samples for this report analyzed for lead EPA 6010 on standard TAT.

- SS103H-1.5
- SS103J-1.5
- SS96E-1.5
- SS79H-1.5

Thanks,

Eric Fraske, PE
Project Manager/Senior III

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From: Kristen Walker [mailto:kristen.walker@enthalpy.com]
Sent: Wednesday, December 21, 2016 4:54 PM
To: Eric Fraske <Eric.Fraske@altaenviron.com>
Subject: Enthalpy Analytical Final Report #384618

Hi Eric Fraske,

Attached is your final report #384618. I am going to have our IT department create the cover page because all of the samples do not fit on one sheet. I will get this over to you as soon as I can. But all of the sample results are within the report.

Thank you.

Ranjit Clarke

From: Eric Fraske <Eric.Fraske@altaenviron.com>
Sent: Monday, January 09, 2017 4:13 PM
To: Ranjit Clarke; Kristen Walker
Subject: RE: Enthalpy Analytical Final Report #384618

Sorry, please also add sample SS70G-1.5 to the list as well.

Thanks

Eric Fraske, PE
Project Manager/Senior III

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o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
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From: Ranjit Clarke [mailto:Ranjit.Clarke@enthalpy.com]
Sent: Monday, January 09, 2017 4:13 PM
To: Eric Fraske <Eric.Fraske@altaenviron.com>; Kristen Walker <kristen.walker@enthalpy.com>
Subject: RE: Enthalpy Analytical Final Report #384618

No problem.

ENTHALPY analytical, inc.

Ranjit Clarke
Senior Project Manager
O: 714-771-9906 / M: 657-274-9864 / F: 714-538-1209
Ranjit.Clarke@enthalpy.com

From: Eric Fraske [mailto:Eric.Fraske@altaenviron.com]
Sent: Monday, January 09, 2017 4:06 PM
To: Kristen Walker <kristen.walker@enthalpy.com>; Ranjit Clarke <Ranjit.Clarke@enthalpy.com>
Subject: RE: Enthalpy Analytical Final Report #384618

Hi Kristen and Ranjit,

Can I get the following samples for this report analyzed for lead EPA 6010 on standard TAT.

- SS103H-1.5
- SS103J-1.5
- SS96E-1.5
- SS79H-1.5

Thanks,

Eric Fraske, PE
Project Manager/Senior III

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o. 562.495.5777 | c. 562.544.3910 | f. 562.495.5877
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From: Kristen Walker [mailto:kristen.walker@enthalpy.com]
Sent: Wednesday, December 21, 2016 4:54 PM
To: Eric Fraske <Eric.Fraske@altaenviron.com>
Subject: Enthalpy Analytical Final Report #384618

Hi Eric Fraske,

Attached is your final report #384618. I am going to have our IT department create the cover page because all of the samples do not fit on one sheet. I will get this over to you as soon as I can. But all of the sample results are within the report.

Thank you.

"In observance of the Christmas Holiday, Enthalpy Analytical will be closed on Friday December 23rd and Monday December 26th. Please be advised that any samples with short hold analyses will need to be received by Enthalpy no later than Wednesday December 21st. For special projects, please coordinate with your project manager in advance."

Kristen Walker
Project Manager

Ranjit Clarke

From: Bina Patel <Bina.Patel@altaenviron.com>
Sent: Friday, January 20, 2017 9:48 AM
To: Ranjit Clarke
Cc: Eric Fraske
Subject: Thomas Jefferson High School (11/21/16) - Enthalpy Analytical Final Report #384618

Hi Ranjit,

Can you please run the following sample collected and submitted as part of report 384618 for lead only by EPA Method 6010 on a 24 hour-TAT:

SS27G-2.5

Let me know if you have any questions or concerns.

Thank you!

BINA PATEL
Associate Consultant I

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3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 | c. 714.404.1770 | f. 562.495.5877
bina.patel@altaenviron.com | www.altaenviron.com
Alta Environmental is the premier compliance services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

Appendix E

Investigation Derived Waste – Profile Analytical Report and Waste Manifest Documentation

Enthalpy Analytical, Inc.
Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	Alta Environmental	Lab Request:	371033
Address:	3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Report Date:	07/05/2016
		Date Received:	06/24/2016
		Client ID:	11397
Attn:	Eric Fraske		

Comments: Jefferson High School
#LAUS-16-6101
1319 E. 41st Street, Los Angeles, CA

The data reported herein is for metals, VOCs, and Gasoline only. The soil sample is still available for additional analyses (if needed), but the water sample is not.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
371033-001	Soildrum
371033-002	Decondrum

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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ACCREDITED IN ACCORDANCE WITH nelac

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371033-001**	**Client Sample #:**	Soildrum	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3050B						QCBatchID:	QC1168666	
Antimony	ND	1	3	mg/Kg	06/25/16	06/27/16	JN	
Arsenic	**5.24**	1	1	mg/Kg	06/25/16	06/27/16	JN	
Barium	**108**	1	1	mg/Kg	06/25/16	06/27/16	JN	
Beryllium	ND	1	0.5	mg/Kg	06/25/16	06/27/16	JN	
Cadmium	**0.76**	1	0.5	mg/Kg	06/25/16	06/27/16	JN	
Chromium	**15.7**	1	1	mg/Kg	06/25/16	06/27/16	JN	
Cobalt	**11.5**	1	0.5	mg/Kg	06/25/16	06/27/16	JN	
Copper	**18.1**	1	1	mg/Kg	06/25/16	06/27/16	JN	
Lead	**33.6**	1	0.5	mg/Kg	06/25/16	06/27/16	JN	
Molybdenum	**1.04**	1	1	mg/Kg	06/25/16	06/27/16	JN	
Nickel	**10.9**	1	1.5	mg/Kg	06/25/16	06/27/16	JN	
Selenium	ND	1	1	mg/Kg	06/25/16	06/27/16	JN	B
Silver	ND	1	0.5	mg/Kg	06/25/16	06/27/16	JN	
Thallium	ND	1	1	mg/Kg	06/25/16	06/27/16	JN	
Vanadium	**34.9**	1	0.5	mg/Kg	06/25/16	06/27/16	JN	
Zinc	**117**	1	5	mg/Kg	06/25/16	06/27/16	JN	
Method: EPA 7471A *NELAC* Prep Method: EPA 7471A						QCBatchID:	QC1168664	
Mercury	ND	1	0.14	mg/Kg	06/27/16	06/28/16	JP	
Method: EPA 8015B *NELAC* Prep Method: EPA 5035						QCBatchID:	QC1168647	
TPH Gasoline	ND	1	3	mg/Kg		06/25/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*86*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5035						QCBatchID:	QC1168645	
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		06/25/16	ZZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2-Dichloroethane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		06/25/16	ZZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		06/25/16	ZZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		06/25/16	ZZ	
2-Chloroethyl Vinyl Ether	ND	1	5	ug/Kg		06/25/16	ZZ	
2-Chlorotoluene	ND	1	5	ug/Kg		06/25/16	ZZ	
4-Chlorotoluene	ND	1	5	ug/Kg		06/25/16	ZZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		06/25/16	ZZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		06/25/16	ZZ	

Matrix:	Solid	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371033-001**	**Client Sample #:**	Soildrum	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Acetone	ND	1	100	ug/Kg		06/25/16	ZZ	
Allyl Chloride	ND	1	5	ug/Kg		06/25/16	ZZ	
Benzene	ND	1	5	ug/Kg		06/25/16	ZZ	
Bromobenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
Bromochloromethane	ND	1	5	ug/Kg		06/25/16	ZZ	
Bromodichloromethane	ND	1	5	ug/Kg		06/25/16	ZZ	
Bromoform	ND	1	5	ug/Kg		06/25/16	ZZ	
Bromomethane	ND	1	5	ug/Kg		06/25/16	ZZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		06/25/16	ZZ	
Chlorobenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
Chlorodibromomethane	ND	1	5	ug/Kg		06/25/16	ZZ	
Chloroethane	ND	1	5	ug/Kg		06/25/16	ZZ	
Chloroform	ND	1	5	ug/Kg		06/25/16	ZZ	
Chloromethane	ND	1	5	ug/Kg		06/25/16	ZZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		06/25/16	ZZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		06/25/16	ZZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		06/25/16	ZZ	
Dibromomethane	ND	1	5	ug/Kg		06/25/16	ZZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		06/25/16	ZZ	
Di-isopropyl ether (DIPE)	ND	1	5	ug/Kg		06/25/16	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
Ethyl-tertbutylether (ETBE)	ND	1	5	ug/Kg		06/25/16	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		06/25/16	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		06/25/16	ZZ	
Methylene chloride	ND	1	5	ug/Kg		06/25/16	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		06/25/16	ZZ	
Naphthalene	ND	1	5	ug/Kg		06/25/16	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
o-Xylene	ND	1	5	ug/Kg		06/25/16	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
Styrene	ND	1	5	ug/Kg		06/25/16	ZZ	
t-Butyl alcohol (TBA)	ND	1	10	ug/Kg		06/25/16	ZZ	
Tert-amylmethylether (TAME)	ND	1	5	ug/Kg		06/25/16	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		06/25/16	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		06/25/16	ZZ	
Toluene	ND	1	5	ug/Kg		06/25/16	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		06/25/16	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		06/25/16	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		06/25/16	ZZ	
Trichloroethene	ND	1	5	ug/Kg		06/25/16	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		06/25/16	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		06/25/16	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		06/25/16	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*117*	*70-145*	
4-Bromofluorobenzene (SUR)	*142*	*70-145*	
Dibromodifluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*105*	*70-145*	

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371033-002**	**Client Sample #:**	Decondrum	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 3010A						QCBatchID:	QC1168717	
Antimony	ND	1	0.02	mg/L	06/28/16	07/01/16	JN	
Arsenic	ND	1	0.01	mg/L	06/28/16	07/01/16	JN	
Barium	**0.160**	1	0.01	mg/L	06/28/16	07/01/16	JN	
Beryllium	ND	1	0.005	mg/L	06/28/16	07/01/16	JN	
Cadmium	ND	1	0.005	mg/L	06/28/16	07/01/16	JN	
Chromium	**0.036**	1	0.01	mg/L	06/28/16	07/01/16	JN	
Cobalt	**0.013**	1	0.005	mg/L	06/28/16	07/01/16	JN	
Copper	**0.046**	1	0.01	mg/L	06/28/16	07/01/16	JN	
Lead	**0.033**	1	0.005	mg/L	06/28/16	07/01/16	JN	
Molybdenum	ND	1	0.01	mg/L	06/28/16	07/01/16	JN	
Nickel	ND	1	0.02	mg/L	06/28/16	07/01/16	JN	
Selenium	ND	1	0.01	mg/L	06/28/16	07/01/16	JN	
Silver	ND	1	0.005	mg/L	06/28/16	07/01/16	JN	
Thallium	ND	1	0.005	mg/L	06/28/16	07/01/16	JN	
Vanadium	**0.037**	1	0.005	mg/L	06/28/16	07/01/16	JN	
Zinc	**0.455**	1	0.02	mg/L	06/28/16	07/01/16	JN	
Method: EPA 7470A *NELAC* Prep Method: Method						QCBatchID:	QC1168685	
Mercury	ND	1	0.4	ug/L	06/29/16	07/01/16	MH	
Method: EPA 8015B *NELAC* Prep Method: EPA 5030B						QCBatchID:	QC1168646	
TPH Gasoline	ND	100	5000	ug/L		06/26/16	TT	

Surrogate	*% Recovery*	*Limits*	*Notes*
4-Bromofluorobenzene (SUR)	*96*	*60-140*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030B						QCBatchID:	QC1168653	
1,1,1,2-Tetrachloroethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,1,1-Trichloroethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,1,2,2-Tetrachloroethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,1,2-Trichloroethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,1,2-Trichlorotrifluoroethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,1-Dichloroethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,1-Dichloroethene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,1-Dichloropropene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2,3-Trichlorobenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2,3-Trichloropropane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2,4-Trichlorobenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2,4-Trimethylbenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2-Dibromo-3-chloropropane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2-Dibromoethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2-Dichlorobenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2-Dichloroethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,2-Dichloropropane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,3,5-Trimethylbenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,3-Dichlorobenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,3-Dichloropropane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
1,4-Dichlorobenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
2,2-Dichloropropane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
2-Butanone (MEK)	ND	100	10000	ug/L	06/25/16	06/26/16	LZ	D2
2-Chlorotoluene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
4-Chlorotoluene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
4-Isopropyltoluene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
4-Methyl-2-pentanone (MIBK)	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Acetone	ND	100	10000	ug/L	06/25/16	06/26/16	LZ	D2

Matrix:	Water	**Client:**	Alta Environmental	**Collector:**	Client
Sampled:	06/24/2016	**Site:**			
Sample #:	**371033-002**	**Client Sample #:**	Decondrum	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Allyl Chloride	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Benzene	ND	100	100	ug/L	06/25/16	06/26/16	LZ	D2
Bromobenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Bromochloromethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Bromodichloromethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Bromoform	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Bromomethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Carbon Tetrachloride	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Chlorobenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Chlorodibromomethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Chloroethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Chloroform	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Chloromethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
cis-1,2-Dichloroethene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
cis-1,3-dichloropropene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
cis-1,4-dichloro-2-butene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Dibromomethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Dichlorodifluoromethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Di-isopropyl ether (DIPE)	ND	100	100	ug/L	06/25/16	06/26/16	LZ	D2
Ethylbenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Ethyl-tertbutylether (ETBE)	ND	100	100	ug/L	06/25/16	06/26/16	LZ	D2
Hexachlorobutadiene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Isopropylbenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
m and p-Xylene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Methylene chloride	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Methyl-t-butyl Ether (MTBE)	ND	100	100	ug/L	06/25/16	06/26/16	LZ	D2
Naphthalene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
N-butylbenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
N-propylbenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
o-Xylene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Sec-butylbenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Styrene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
t-Butyl alcohol (TBA)	ND	100	1000	ug/L	06/25/16	06/26/16	LZ	D2
Tert-amylmethylether (TAME)	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Tert-butylbenzene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Tetrachloroethene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Toluene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
trans-1,2-dichloroethene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
trans-1,3-dichloropropene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
trans-1,4-dichloro-2-butene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Trichloroethene	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Trichlorofluoromethane	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Vinyl Chloride	ND	100	500	ug/L	06/25/16	06/26/16	LZ	D2
Xylenes (Total)	ND	1	5	ug/L	06/25/16	06/26/16	LZ	D2

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*97*	*70-145*	
4-Bromofluorobenzene (SUR)	*107*	*70-145*	
Dibromodifluoromethane (SUR)	*90*	*70-145*	
Toluene-d8 (SUR)	*105*	*70-145*	

QCBatchID: QC1168645	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/25/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1168645MB1						
1,1,1,2-Tetrachloroethane	ND	ug/Kg		5		
1,1,1-Trichloroethane	ND	ug/Kg		5		
1,1,2,2-Tetrachloroethane	ND	ug/Kg		5		
1,1,2-Trichloroethane	ND	ug/Kg		5		
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		5		
1,1-Dichloroethane	ND	ug/Kg		5		
1,1-Dichloroethene	ND	ug/Kg		5		
1,1-Dichloropropene	ND	ug/Kg		5		
1,2,3-Trichlorobenzene	ND	ug/Kg		5		
1,2,3-Trichloropropane	ND	ug/Kg		5		
1,2,4-Trichlorobenzene	ND	ug/Kg		5		
1,2,4-Trimethylbenzene	ND	ug/Kg		5		
1,2-Dibromo-3-chloropropane	ND	ug/Kg		5		
1,2-Dibromoethane	ND	ug/Kg		5		
1,2-Dichlorobenzene	ND	ug/Kg		5		
1,2-Dichloroethane	ND	ug/Kg		5		
1,2-Dichloropropane	ND	ug/Kg		5		
1,3,5-Trimethylbenzene	ND	ug/Kg		5		
1,3-Dichlorobenzene	ND	ug/Kg		5		
1,3-Dichloropropane	ND	ug/Kg		5		
1,4-Dichlorobenzene	ND	ug/Kg		5		
2,2-Dichloropropane	ND	ug/Kg		5		
2-Butanone (MEK)	ND	ug/Kg		100		
2-Chloroethyl Vinyl Ether	ND	ug/Kg		5		
2-Chlorotoluene	ND	ug/Kg		5		
4-Chlorotoluene	ND	ug/Kg		5		
4-Isopropyltoluene	ND	ug/Kg		5		
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		5		
Acetone	ND	ug/Kg		100		
Allyl Chloride	ND	ug/Kg		5		
Benzene	ND	ug/Kg		5		
Bromobenzene	ND	ug/Kg		5		
Bromochloromethane	ND	ug/Kg		5		
Bromodichloromethane	ND	ug/Kg		5		
Bromoform	ND	ug/Kg		5		
Bromomethane	ND	ug/Kg		5		
Carbon Tetrachloride	ND	ug/Kg		5		
Chlorobenzene	ND	ug/Kg		5		
Chlorodibromomethane	ND	ug/Kg		5		
Chloroethane	ND	ug/Kg		5		
Chloroform	ND	ug/Kg		5		
Chloromethane	ND	ug/Kg		5		
cis-1,2-Dichloroethene	ND	ug/Kg		5		
cis-1,3-dichloropropene	ND	ug/Kg		5		
cis-1,4-dichloro-2-butene	ND	ug/Kg		5		
Dibromomethane	ND	ug/Kg		5		
Dichlorodifluoromethane	ND	ug/Kg		5		
Di-isopropyl ether (DIPE)	ND	ug/Kg		5		
Ethylbenzene	ND	ug/Kg		5		
Ethyl-tertbutylether (ETBE)	ND	ug/Kg		5		
Hexachlorobutadiene	ND	ug/Kg		5		

QCBatchID: QC1168645	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 06/25/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units		RDL	Notes
QC1168645MB1					
Isopropylbenzene	ND	ug/Kg		5	
m and p-Xylene	ND	ug/Kg		5	
Methylene chloride	ND	ug/Kg		5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg		5	
Naphthalene	ND	ug/Kg		5	
N-butylbenzene	ND	ug/Kg		5	
N-propylbenzene	ND	ug/Kg		5	
o-Xylene	ND	ug/Kg		5	
Sec-butylbenzene	ND	ug/Kg		5	
Styrene	ND	ug/Kg		5	
t-Butyl alcohol (TBA)	ND	ug/Kg		10	
Tert-amylmethylether (TAME)	ND	ug/Kg		5	
Tert-butylbenzene	ND	ug/Kg		5	
Tetrachloroethene	ND	ug/Kg		5	
Toluene	ND	ug/Kg		5	
TPH Gasoline	ND	ug/Kg		100	
trans-1,2-dichloroethene	ND	ug/Kg		5	
trans-1,3-dichloropropene	ND	ug/Kg		5	
trans-1,4-dichloro-2-butene	ND	ug/Kg		5	
Trichloroethene	ND	ug/Kg		5	
Trichlorofluoromethane	ND	ug/Kg		5	
Vinyl Chloride	ND	ug/Kg		5	
Xylenes (Total)	ND	ug/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168645LCS1											
1,1-Dichloroethene	50		53		ug/Kg	106			59-172		
Benzene	50		51		ug/Kg	102			62-137		
Chlorobenzene	50		55		ug/Kg	110			60-133		
Methyl-t-butyl Ether (MTBE)	50		50		ug/Kg	100			62-137		
Toluene	50		55		ug/Kg	110			59-139		
TPH Gasoline	1000	1000	920	950	ug/Kg	92	95	3	60-140	30	
Trichloroethene	50		54		ug/Kg	108			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168645MS1, QC1168645MSD1												**Source: 371033-001**
1,1-Dichloroethene	ND	50	50	55	52	ug/Kg	110	104	5.6	59-172	22	
Benzene	ND	50	50	55	51	ug/Kg	110	102	7.5	62-137	24	
Chlorobenzene	ND	50	50	56	56	ug/Kg	112	112	0.0	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	56	54	ug/Kg	112	108	3.6	62-137	21	
Toluene	ND	50	50	56	55	ug/Kg	112	110	1.8	59-139	21	
Trichloroethene	ND	50	50	55	53	ug/Kg	110	106	3.7	66-142	21	

QCBatchID: QC1168646	Analyst: ttran	Method: EPA 8015B
Matrix: Water	Analyzed: 06/25/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1168646MB1						
TPH Gasoline	ND	ug/L		50		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168646LCS1, QC1168646LCSD1											
TPH Gasoline	500	500	435	445	ug/L	87	89	2	70-130	30	

QCBatchID: QC1168647	Analyst: ttran	Method: EPA 8015B
Matrix: Solid	Analyzed: 06/25/2016	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1168647MB1						
TPH Gasoline	ND	mg/Kg		3		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1168647LCS1, QC1168647LCSD1											
TPH Gasoline	5	5	4.38	4.33	mg/Kg	88	87	1	70-130	20	

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1168647MS1, QC1168647MSD1												**Source: 371033-001**
TPH Gasoline	ND	5	5	3.26	3.13	mg/Kg	65	63	4.1	70-130	20	M

QCBatchID: QC1168653	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 06/26/2016	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1168653MB1						
1,1,1,2-Tetrachloroethane	ND	ug/L		5		
1,1,1-Trichloroethane	ND	ug/L		5		
1,1,2,2-Tetrachloroethane	ND	ug/L		5		
1,1,2-Trichloroethane	ND	ug/L		5		
1,1,2-Trichlorotrifluoroethane	ND	ug/L		5		
1,1-Dichloroethane	ND	ug/L		5		
1,1-Dichloroethene	ND	ug/L		5		
1,1-Dichloropropene	ND	ug/L		5		
1,2,3-Trichlorobenzene	ND	ug/L		5		
1,2,3-Trichloropropane	ND	ug/L		5		
1,2,4-Trichlorobenzene	ND	ug/L		5		
1,2,4-Trimethylbenzene	ND	ug/L		5		
1,2-Dibromo-3-chloropropane	ND	ug/L		5		
1,2-Dibromoethane	ND	ug/L		5		
1,2-Dichlorobenzene	ND	ug/L		5		
1,2-Dichloroethane	ND	ug/L		5		
1,2-Dichloropropane	ND	ug/L		5		
1,3,5-Trimethylbenzene	ND	ug/L		5		
1,3-Dichlorobenzene	ND	ug/L		5		
1,3-Dichloropropane	ND	ug/L		5		
1,4-Dichlorobenzene	ND	ug/L		5		
2,2-Dichloropropane	ND	ug/L		5		
2-Butanone (MEK)	ND	ug/L		100		
2-Chlorotoluene	ND	ug/L		5		
4-Chlorotoluene	ND	ug/L		5		
4-Isopropyltoluene	ND	ug/L		5		
4-Methyl-2-pentanone (MIBK)	ND	ug/L		5		
Acetone	ND	ug/L		100		
Allyl Chloride	ND	ug/L		5		
Benzene	ND	ug/L		1		
Bromobenzene	ND	ug/L		5		
Bromochloromethane	ND	ug/L		5		
Bromodichloromethane	ND	ug/L		5		
Bromoform	ND	ug/L		5		
Bromomethane	ND	ug/L		5		
Carbon Tetrachloride	ND	ug/L		5		
Chlorobenzene	ND	ug/L		5		
Chlorodibromomethane	ND	ug/L		5		
Chloroethane	ND	ug/L		5		
Chloroform	ND	ug/L		5		
Chloromethane	ND	ug/L		5		
cis-1,2-Dichloroethene	ND	ug/L		5		
cis-1,3-dichloropropene	ND	ug/L		5		
cis-1,4-dichloro-2-butene	ND	ug/L		5		
Dibromomethane	ND	ug/L		5		
Dichlorodifluoromethane	ND	ug/L		5		
Di-isopropyl ether (DIPE)	ND	ug/L		1		
Ethylbenzene	ND	ug/L		5		
Ethyl-tertbutylether (ETBE)	ND	ug/L		1		
Hexachlorobutadiene	ND	ug/L		5		
Isopropylbenzene	ND	ug/L		5		

QCBatchID: QC1168653	Analyst: lucy	Method: EPA 8260B
Matrix: Water	Analyzed: 06/26/2016	Instrument: VOA-MS (group)

Analyte	Blank Result	Units		RDL	Notes
QC1168653MB1					
m and p-Xylene	ND	ug/L		5	
Methylene chloride	ND	ug/L		5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L		1	
Naphthalene	ND	ug/L		5	
N-butylbenzene	ND	ug/L		5	
N-propylbenzene	ND	ug/L		5	
o-Xylene	ND	ug/L		5	
Sec-butylbenzene	ND	ug/L		5	
Styrene	ND	ug/L		5	
t-Butyl alcohol (TBA)	ND	ug/L		10	
Tert-amylmethylether (TAME)	ND	ug/L		5	
Tert-butylbenzene	ND	ug/L		5	
Tetrachloroethene	ND	ug/L		5	
Toluene	ND	ug/L		5	
trans-1,2-dichloroethene	ND	ug/L		5	
trans-1,3-dichloropropene	ND	ug/L		5	
trans-1,4-dichloro-2-butene	ND	ug/L		5	
Trichloroethene	ND	ug/L		5	
Trichlorofluoromethane	ND	ug/L		5	
Vinyl Chloride	ND	ug/L		5	
Xylenes (Total)	ND	ug/L		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168653LCS1											
1,1-Dichloroethene	50		47		ug/L	94			59-172		
Benzene	50		47		ug/L	94			62-137		
Chlorobenzene	50		47		ug/L	94			60-133		
Methyl-t-butyl Ether (MTBE)	50		44		ug/L	88			62-137		
Toluene	50		51		ug/L	102			59-139		
Trichloroethene	50		51		ug/L	102			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168653MS1, QC1168653MSD1												**Source: 371034-091**
1,1-Dichloroethene	ND	50	50	46	48	ug/L	92	96	4.3	59-172	22	
Benzene	ND	50	50	45	48	ug/L	90	96	6.5	62-137	24	
Chlorobenzene	ND	50	50	48	48	ug/L	96	96	0.0	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	39	46	ug/L	78	92	16.5	62-137	21	
Toluene	ND	50	50	51	53	ug/L	102	106	3.8	59-139	21	
Trichloroethene	ND	50	50	49	50	ug/L	98	100	2.0	66-142	21	

QCBatchID: QC1168664	Analyst: JParedes	Method: EPA 7471A
Matrix: Solid	Analyzed: 06/28/2016	Instrument: AAICP-HG1

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1168664MB1						
Mercury	ND	mg/Kg		0.14		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168664LCS1											
Mercury	0.83		0.82		mg/Kg	99			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168664MS1, QC1168664MSD1												**Source: 371033-001**
Mercury	0.08	0.83	0.83	0.86	0.89	mg/Kg	94	98	3.4	75-125	20	

QCBatchID: QC1168666	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1168666MB1					
Antimony	ND	mg/Kg		3	
Arsenic	ND	mg/Kg		1	
Barium	ND	mg/Kg		1	
Beryllium	ND	mg/Kg		0.5	
Cadmium	ND	mg/Kg		0.5	
Chromium	ND	mg/Kg		1	
Cobalt	ND	mg/Kg		0.5	
Copper	ND	mg/Kg		1	
Lead	ND	mg/Kg		0.5	
Molybdenum	ND	mg/Kg		1	
Nickel	ND	mg/Kg		1.5	
Selenium	**1.15**	mg/Kg		1	B
Silver	ND	mg/Kg		0.5	
Thallium	ND	mg/Kg		1	
Vanadium	ND	mg/Kg		0.5	
Zinc	ND	mg/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168666LCS1											
Antimony	200		204		mg/Kg	102			80-120		
Arsenic	200		194		mg/Kg	97			80-120		
Barium	200		221		mg/Kg	111			80-120		
Beryllium	200		184		mg/Kg	92			80-120		
Cadmium	200		217		mg/Kg	109			80-120		
Chromium	200		211		mg/Kg	106			80-120		
Cobalt	200		199		mg/Kg	100			80-120		
Copper	200		206		mg/Kg	103			80-120		
Lead	200		192		mg/Kg	96			80-120		
Molybdenum	200		200		mg/Kg	100			80-120		
Nickel	200		196		mg/Kg	98			80-120		
Selenium	200		190		mg/Kg	95			80-120		
Silver	100		92.8		mg/Kg	93			80-120		
Thallium	200		195		mg/Kg	98			80-120		
Vanadium	200		217		mg/Kg	109			80-120		
Zinc	200		195		mg/Kg	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168666MS1, QC1168666MSD1												**Source: 371033-001**
Antimony	ND	100	100	34.6	33.2	mg/Kg	35	33	4.1	75-125	20	M
Arsenic	5.24	100	100	101	100	mg/Kg	96	95	1.0	75-125	20	
Barium	108	100	100	208	196	mg/Kg	100	88	5.9	75-125	20	
Beryllium	ND	100	100	87.3	91.4	mg/Kg	87	91	4.6	75-125	20	
Cadmium	0.76	100	100	98.6	94.3	mg/Kg	98	94	4.5	75-125	20	
Chromium	15.7	100	100	122	109	mg/Kg	106	93	11.3	75-125	20	
Cobalt	11.5	100	100	106	99.9	mg/Kg	95	88	5.9	75-125	20	
Copper	18.1	100	100	121	111	mg/Kg	103	93	8.6	75-125	20	
Lead	33.6	100	100	121	120	mg/Kg	87	86	0.8	75-125	20	

QCBatchID: QC1168666	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Solid	Analyzed: 06/29/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168666MS1, QC1168666MSD1												**Source: 371033-001**
Molybdenum	1.04	100	100	90.0	88.7	mg/Kg	89	88	1.5	75-125	20	
Nickel	10.9	100	100	109	101	mg/Kg	98	90	7.6	75-125	20	
Selenium	ND	100	100	72.4	69.2	mg/Kg	72	69	4.5	75-125	20	M
Silver	ND	50	50	45.2	42.4	mg/Kg	90	85	6.4	75-125	20	
Thallium	ND	100	100	88.7	87.6	mg/Kg	89	88	1.2	75-125	20	
Vanadium	34.9	100	100	136	128	mg/Kg	101	93	6.1	75-125	20	
Zinc	117	100	100	201	199	mg/Kg	84	82	1.0	75-125	20	

QCBatchID: QC1168685	Analyst: JParedes	Method: EPA 7470A
Matrix: Water	Analyzed: 06/29/2016	Instrument: AAICP-HG1

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1168685MB1					
Mercury	ND	ug/L		0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168685LCS1											
Mercury	5		5.62		ug/L	112			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168685MS1, QC1168685MSD1												**Source: 371006-162**
Mercury	0.19	5	5	5.70	5.69	ug/L	106	106	0.2	75-125	20	

QCBatchID: QC1168717	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Water	Analyzed: 06/30/2016	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1168717MB1					
Antimony	ND	mg/L		0.02	
Arsenic	ND	mg/L		0.01	
Barium	ND	mg/L		0.01	
Beryllium	ND	mg/L		0.005	
Cadmium	ND	mg/L		0.005	
Chromium	ND	mg/L		0.01	
Cobalt	ND	mg/L		0.005	
Copper	ND	mg/L		0.01	
Lead	ND	mg/L		0.005	
Molybdenum	ND	mg/L		0.01	
Nickel	ND	mg/L		0.02	
Selenium	ND	mg/L		0.01	
Silver	ND	mg/L		0.005	
Thallium	ND	mg/L		0.005	
Vanadium	ND	mg/L		0.005	
Zinc	ND	mg/L		0.02	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168717LCS1											
Antimony	2		2.12		mg/L	106			80-120		
Arsenic	2		1.93		mg/L	97			80-120		
Barium	2		2.11		mg/L	106			80-120		
Beryllium	2		1.90		mg/L	95			80-120		
Cadmium	2		2.13		mg/L	107			80-120		
Chromium	2		2.06		mg/L	103			80-120		
Cobalt	2		2.08		mg/L	104			80-120		
Copper	2		1.94		mg/L	97			80-120		
Lead	2		1.92		mg/L	96			80-120		
Molybdenum	2		1.93		mg/L	97			80-120		
Nickel	2		1.94		mg/L	97			80-120		
Selenium	2		1.84		mg/L	92			80-120		
Silver	1		0.989		mg/L	99			80-120		
Thallium	2		1.84		mg/L	92			80-120		
Vanadium	2		2.04		mg/L	102			80-120		
Zinc	2		2.03		mg/L	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168717MS1, QC1168717MSD1												**Source: 371006-162**
Antimony	ND	1	1	1.03	1.06	mg/L	103	106	2.9	75-125	20	
Arsenic	0.007	1	1	0.950	0.991	mg/L	94	98	4.2	75-125	20	
Barium	ND	1	1	1.08	1.11	mg/L	108	111	2.7	75-125	20	
Beryllium	ND	1	1	0.993	1.01	mg/L	99	101	1.7	75-125	20	
Cadmium	ND	1	1	1.08	1.10	mg/L	108	110	1.8	75-125	20	
Chromium	ND	1	1	1.05	1.07	mg/L	105	107	1.9	75-125	20	
Cobalt	ND	1	1	1.07	1.09	mg/L	107	109	1.9	75-125	20	
Copper	0.007	1	1	0.983	1.00	mg/L	98	99	1.7	75-125	20	
Lead	ND	1	1	1.01	1.05	mg/L	101	105	3.9	75-125	20	

QCBatchID: QC1168717	Analyst: jeannynguye	Method: EPA 6010B
Matrix: Water	Analyzed: 06/30/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1168717MS1, QC1168717MSD1												**Source: 371006-162**
Molybdenum	0.004	1	1	1.03	1.04	mg/L	103	104	1.0	75-125	20	
Nickel	ND	1	1	0.999	1.02	mg/L	100	102	2.1	75-125	20	
Selenium	ND	1	1	0.915	0.949	mg/L	92	95	3.6	75-125	20	
Silver	ND	0.5	0.5	0.487	0.495	mg/L	97	99	1.6	75-125	20	
Thallium	0.005	1	1	0.992	1.03	mg/L	99	103	3.8	75-125	20	
Vanadium	ND	1	1	1.06	1.05	mg/L	106	105	0.9	75-125	20	
Zinc	0.009	1	1	1.02	1.05	mg/L	101	104	2.9	75-125	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
Q4	Analyte result out of calibration range. Result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPHY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
806 N. Batavia St., Orange, CA 92868 Phone: (714) 771-6900 Fax: (714)771-9933	Lab No: 371034 Page: 1 of 1	Standard: X; 4 Day: ; 3 Day: ; 2 Day: ; 1 Day: ; Same Day:
Billing: Enthalpy - SoCal c/o Montrose Environmental Group 1 Park Plaza, Suite 1000, Irvine, CA 92614	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

ENTHALPY analytical, inc.

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Alta Environmental	Name:	Jefferson High School
Report To:	Eric Fraske	Number:	LAUS-16-6101
Email:	eric.fraske@altaenviron.com	P.O. #:	
Address:	3777 Long Beach Boulevard	Address:	1319 E. 41st Street
	Long Beach, CA 90807		Los Angeles, CA
Phone:	562-544-3910	Global ID:	
Fax:	562-495-5877	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic (USEPA 6020)	Lead (USEPA 6010B)	OCP (8081A)	VOCs+oxys (USEPA 8260B/5035)	TPH-g (USEPA 8015M/5035)	TPH-d/o (USEPA 8015M)	PCBs (EPA Method 8082)	THE 22 metals 6010			Test Instructions / Comments
1	SOILDRUM	6/24/16	–	Soil	1x5lece	–			X	X	X	X	X	X			
2	DECONDRUM	6/24/16	–	H_2O	3 Amber 1 Poly 5mm	–			X	X	X	X	X	X			
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	ERIC FRASKE	ALTA	06242016 1400
1 Received By:	[signature]	L Marcolet		6/24/16 1400
2 Relinquished By:	[signature]	L Marcolet		6/24/16 1542
2 Received By:	[signature]	ZAID PADILLA		6/24/16 1545
3 Relinquished By:				
3 Received By:				

ENTHALPY analytical inc.

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: ALTA ENVIRONMENTAL

Project: JEFFERSON HIGH SCHOOL

Date Received: 6/24/16

Sampler's Signature Present: Yes (No)

Sample temperature: _____

Sample(s) received in cooler: (Yes) No (Skip Section 2)

Shipping Information: _____

Section 2

Was the cooler packed with: ✓ Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other _____

Cooler 1 Temperature: 3.4°C Cooler 2 Temperature: _____ Cooler 3 Temperature: _____

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤ 10 Deg. C or arrival on ice)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Were IDs present?	✓		
Were sampling dates & times present?	✓		
Was a signature present?	✓		
Were tests clearly indicated?	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?		✓	
Were the containers labeled with correct preservatives?	✓		
Was total residual chlorine measured (Fish Bioassay samples only)? * **If the answer is no, please inform Fish Bioassay Dept. immediately.*			✓

Section 4

Explanations/Comments

Section 5

Was the Project Manager notified via email of discrepancies: Y / N (N/A)

Project Manager's response: _____

Completed By: [signature] Date: 6/24/16

NO. 731741

NON-HAZARDOUS WASTE DATA FORM

BESI # 277160

GENERATOR

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (If different than mailing address)
LAUSD - THOMAS JEFFERSON HIGH SCHOOL
1319 E. 41ST ST.
LOS ANGELES, CA 90011

Generator's Phone: 213-241-3199

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 1

Container type transported to receiving facility:
☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS WASTE LIQUIDS
GENERATING PROCESS DECON WATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		95-100%-	3. SOLIDS		0-5%
2. TPH		< 1%	4.		

Waste Profile _____ PROPERTIES: pH 4-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: [illegible] | Signature: [signature] | Month 1 | Day 25 | Year 17

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE | Phone#: 949-460-5200

Transporter 1 Printed/Typed Name: Jorge Villalpando | Signature: Jorge [signature] | Month 1 | Day 25 | Year 17

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC. | Phone#: 714-990-6855

Transporter 2 Printed/Typed Name: | Signature: | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone#: 310-537-7100

Printed/Typed Name: | Signature: | Month | Day | Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /			A07		

Generator and/or Consultant

Generator's Name and Billing Address: L.A.U.S.D. - OEHS 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA 90017	Generator's Phone #: 213-241-3199 Person to Contact: FAX#:	Customer Account Number
Consultant's Name and Billing Address:	Consultant's Phone #: Person to Contact: FAX#:	Customer Account Number
Generation Site (Transport from): *(name & address)* LAUSD - THOMAS JEFFERSON HIGH SCHOOL 1319 E. 41ST ST. LOS ANGELES, CA 90011	Site Phone #: Person to Contact: FAX#:	
Designated Facility (Transport to): *(name & address)* SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001 Person to Contact: JOE PROVANSAL FAX#: (760) 246-8004	
Transporter Name and Mailing Address: BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 277160	Transporter's Phone #: 949-460-5200 Person to Contact: LARRY MOOTHART FAX#: 949-460-5210	CAR000183913 450647 Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	5 DM	Soil			
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					

List any exception to items listed above: Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☒	Signature and date:	Month	Day	Year
[illegible] FOR LAUSD	[signature]	1	25	17

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
Jorge Villalpando	Jorge [signature]	1	25	17

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
J. PROVANSAL	

Please print or type.

GENERATOR/CONSULTANTS COPY

Appendix F

95% UCL Calculation Worksheets

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.12/6/2017 5:32:33 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	PB Pre											
12												
13	General Statistics											
14	Total Number of Observations					382	Number of Distinct Observations					333
15							Number of Missing Observations					26
16	Minimum					0.55	Mean					62.83
17	Maximum					848	Median					39.9
18	SD					83.29	Std. Error of Mean					4.261
19	Coefficient of Variation					1.326	Skewness					4.437
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.642	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.227	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.0457	Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL					69.86	95% Adjusted-CLT UCL (Chen-1995)					70.88
31							95% Modified-t UCL (Johnson-1978)					70.02
32												
33	Gamma GOF Test											
34	A-D Test Statistic					1.716	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.794	Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.0525	Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value					0.0481	Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					0.826	k star (bias corrected MLE)					0.822
42	Theta hat (MLE)					76.03	Theta star (bias corrected MLE)					76.47
43	nu hat (MLE)					631.4	nu star (bias corrected)					627.7
44	MLE Mean (bias corrected)					62.83	MLE Sd (bias corrected)					69.32
45							Approximate Chi Square Value (0.05)					570.6
46	Adjusted Level of Significance					0.0494	Adjusted Chi Square Value					570.4
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					69.12	95% Adjusted Gamma UCL (use when n<50)					69.15
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.925	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk P Value					0	Data Not Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
54					Lilliefors Test Statistic	0.111	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.0457	Data Not Lognormal at 5% Significance Level					
56	Data Not Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	-0.598			Mean of logged Data			3.425
60					Maximum of Logged Data	6.743			SD of logged Data			1.401
61												
62	Assuming Lognormal Distribution											
63					95% H-UCL	98.03			90% Chebyshev (MVUE) UCL			106
64					95% Chebyshev (MVUE) UCL	117			97.5% Chebyshev (MVUE) UCL			132.4
65					99% Chebyshev (MVUE) UCL	162.5						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data do not follow a Discernible Distribution (0.05)											
69												
70	Nonparametric Distribution Free UCLs											
71					95% CLT UCL	69.84			95% Jackknife UCL			69.86
72					95% Standard Bootstrap UCL	69.85			95% Bootstrap-t UCL			70.7
73					95% Hall's Bootstrap UCL	70.86			95% Percentile Bootstrap UCL			70.56
74					95% BCA Bootstrap UCL	71.3						
75					90% Chebyshev(Mean, Sd) UCL	75.62			95% Chebyshev(Mean, Sd) UCL			81.41
76					97.5% Chebyshev(Mean, Sd) UCL	89.44			99% Chebyshev(Mean, Sd) UCL			105.2
77												
78	Suggested UCL to Use											
79					95% Chebyshev (Mean, Sd) UCL	81.41						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.12/6/2017 5:33:42 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	PB Post											
12												
13	General Statistics											
14	Total Number of Observations					289	Number of Distinct Observations					254
15							Number of Missing Observations					0
16	Minimum					0.39	Mean					30.54
17	Maximum					79.1	Median					27.7
18	SD					22.24	Std. Error of Mean					1.308
19	Coefficient of Variation					0.728	Skewness					0.351
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.915	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.0876	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.0525	Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL					32.7	95% Adjusted-CLT UCL (Chen-1995)					32.72
31							95% Modified-t UCL (Johnson-1978)					32.7
32												
33	Gamma GOF Test											
34	A-D Test Statistic					7.176	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.781	Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.105	Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value					0.0548	Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					1.133	k star (bias corrected MLE)					1.124
42	Theta hat (MLE)					26.95	Theta star (bias corrected MLE)					27.18
43	nu hat (MLE)					654.9	nu star (bias corrected)					649.4
44	MLE Mean (bias corrected)					30.54	MLE Sd (bias corrected)					28.81
45							Approximate Chi Square Value (0.05)					591.3
46	Adjusted Level of Significance					0.0492	Adjusted Chi Square Value					591
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					33.54	95% Adjusted Gamma UCL (use when n<50)					33.55
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.845	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk P Value					0	Data Not Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
54					Lilliefors Test Statistic	0.168	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.0525	Data Not Lognormal at 5% Significance Level					
56	Data Not Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	-0.942			Mean of logged Data			2.917
60					Maximum of Logged Data	4.371			SD of logged Data			1.257
61												
62	Assuming Lognormal Distribution											
63					95% H-UCL	48.48			90% Chebyshev (MVUE) UCL			52.37
64					95% Chebyshev (MVUE) UCL	57.75			97.5% Chebyshev (MVUE) UCL			65.21
65					99% Chebyshev (MVUE) UCL	79.87						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data do not follow a Discernible Distribution (0.05)											
69												
70	Nonparametric Distribution Free UCLs											
71					95% CLT UCL	32.69			95% Jackknife UCL			32.7
72					95% Standard Bootstrap UCL	32.68			95% Bootstrap-t UCL			32.69
73					95% Hall's Bootstrap UCL	32.62			95% Percentile Bootstrap UCL			32.75
74					95% BCA Bootstrap UCL	32.8						
75					90% Chebyshev(Mean, Sd) UCL	34.46			95% Chebyshev(Mean, Sd) UCL			36.24
76					97.5% Chebyshev(Mean, Sd) UCL	38.71			99% Chebyshev(Mean, Sd) UCL			43.55
77												
78	Suggested UCL to Use											
79					95% Chebyshev (Mean, Sd) UCL	36.24						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
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3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.12/6/2017 5:34:32 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	As Pre											
12												
13	General Statistics											
14	Total Number of Observations					137	Number of Distinct Observations					126
15							Number of Missing Observations					271
16	Minimum					0.83	Mean					5.018
17	Maximum					21.1	Median					3.6
18	SD					4.121	Std. Error of Mean					0.352
19	Coefficient of Variation					0.821	Skewness					1.968
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.762	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.21	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.0761	Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL					5.601	95% Adjusted-CLT UCL (Chen-1995)					5.66
31							95% Modified-t UCL (Johnson-1978)					5.611
32												
33	Gamma GOF Test											
34	A-D Test Statistic					3.33	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.765	Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.126	Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value					0.0809	Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					2.131	k star (bias corrected MLE)					2.089
42	Theta hat (MLE)					2.355	Theta star (bias corrected MLE)					2.402
43	nu hat (MLE)					583.8	nu star (bias corrected)					572.3
44	MLE Mean (bias corrected)					5.018	MLE Sd (bias corrected)					3.472
45							Approximate Chi Square Value (0.05)					517.8
46	Adjusted Level of Significance					0.0482	Adjusted Chi Square Value					517.3
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					5.546	95% Adjusted Gamma UCL (use when n<50)					5.551
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.962	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk P Value					0.00802	Data Not Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
54					Lilliefors Test Statistic	0.0795	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.0761	Data Not Lognormal at 5% Significance Level					
56	Data Not Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	-0.186			Mean of logged Data			1.36
60					Maximum of Logged Data	3.049			SD of logged Data			0.686
61												
62	Assuming Lognormal Distribution											
63					95% H-UCL	5.531			90% Chebyshev (MVUE) UCL			5.878
64					95% Chebyshev (MVUE) UCL	6.311			97.5% Chebyshev (MVUE) UCL			6.912
65					99% Chebyshev (MVUE) UCL	8.092						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data do not follow a Discernible Distribution (0.05)											
69												
70	Nonparametric Distribution Free UCLs											
71					95% CLT UCL	5.597			95% Jackknife UCL			5.601
72					95% Standard Bootstrap UCL	5.592			95% Bootstrap-t UCL			5.707
73					95% Hall's Bootstrap UCL	5.703			95% Percentile Bootstrap UCL			5.619
74					95% BCA Bootstrap UCL	5.693						
75					90% Chebyshev(Mean, Sd) UCL	6.074			95% Chebyshev(Mean, Sd) UCL			6.552
76					97.5% Chebyshev(Mean, Sd) UCL	7.216			99% Chebyshev(Mean, Sd) UCL			8.521
77												
78	Suggested UCL to Use											
79					95% Chebyshev (Mean, Sd) UCL	6.552						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
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4	Date/Time of Computation			ProUCL 5.12/6/2017 5:35:12 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	AS Post											
12												
13	General Statistics											
14	Total Number of Observations					127	Number of Distinct Observations					116
15							Number of Missing Observations					0
16	Minimum					0.83	Mean					4.12
17	Maximum					11.6	Median					3.45
18	SD					2.549	Std. Error of Mean					0.226
19	Coefficient of Variation					0.619	Skewness					1.374
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.841	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value					0	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.159	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.079	Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL					4.495	95% Adjusted-CLT UCL (Chen-1995)					4.521
31							95% Modified-t UCL (Johnson-1978)					4.499
32												
33	Gamma GOF Test											
34	A-D Test Statistic					1.414	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.759	Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.0892	Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value					0.083	Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					3.142	k star (bias corrected MLE)					3.073
42	Theta hat (MLE)					1.311	Theta star (bias corrected MLE)					1.341
43	nu hat (MLE)					798.1	nu star (bias corrected)					780.6
44	MLE Mean (bias corrected)					4.12	MLE Sd (bias corrected)					2.35
45							Approximate Chi Square Value (0.05)					716.7
46	Adjusted Level of Significance					0.0481	Adjusted Chi Square Value					716
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					4.487	95% Adjusted Gamma UCL (use when n<50)					4.491
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.97	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk P Value					0.0885	Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
54					Lilliefors Test Statistic	0.0501	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.079	Data appear Lognormal at 5% Significance Level					
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	-0.186			Mean of logged Data			1.248
60					Maximum of Logged Data	2.451			SD of logged Data			0.577
61												
62	Assuming Lognormal Distribution											
63					95% H-UCL	4.53			90% Chebyshev (MVUE) UCL			4.787
64					95% Chebyshev (MVUE) UCL	5.094			97.5% Chebyshev (MVUE) UCL			5.521
65					99% Chebyshev (MVUE) UCL	6.358						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71					95% CLT UCL	4.492			95% Jackknife UCL			4.495
72					95% Standard Bootstrap UCL	4.494			95% Bootstrap-t UCL			4.51
73					95% Hall's Bootstrap UCL	4.515			95% Percentile Bootstrap UCL			4.512
74					95% BCA Bootstrap UCL	4.508						
75					90% Chebyshev(Mean, Sd) UCL	4.798			95% Chebyshev(Mean, Sd) UCL			5.106
76					97.5% Chebyshev(Mean, Sd) UCL	5.532			99% Chebyshev(Mean, Sd) UCL			6.37
77												
78	Suggested UCL to Use											
79					95% H-UCL	4.53						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86	ProUCL computes and outputs H-statistic based UCLs for historical reasons only.											
87	H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.											
88	It is therefore recommended to avoid the use of H-statistic based 95% UCLs.											
89	Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.											
90												

Appendix G

Removal Action Workplan

ESA

DRAFT REMOVAL ACTION WORKPLAN FOR SOIL

Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

Prepared for

Los Angeles Unified School District

LAUS-17-6714
May 10, 2017

Alta Environmental
3777 Long Beach Boulevard, Annex Building
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Appendices

Appendix A Human Health Screening Evaluation
Appendix B Health and Safety Plan (HASP)
Appendix C Quality Assurance Project Plan
Appendix D Transportation Plan

Project Site	Thomas Jefferson High School
Property Owner	Los Angeles Unified School District
Chemicals of Concern (COCs)	Lead and Arsenic.
Cleanup Goals	Lead: 80 milligrams per kilogram (mg/kg) Arsenic: 12 mg/kg
Estimated Soil Removal Volume at Completion of RAW Activities	229.04 cubic yards

1. INTRODUCTION

Thomas Jefferson High School (the "Site") is an active high school campus made up of five adjacent parcels (Los Angeles County Tax Assessor Parcel Numbers: 5114-036-900, -901, -902, -903, -904) that total approximately 18.15 acres. The Site is bound by residential homes to the north, Compton Avenue to the east, East 41st Street to the south, and Hooper Avenue to the west.

A Preliminary Environmental Assessment Equivalent (PEA-E) for the Thomas Jefferson High School comprehensive modernization area located on the northern portion of the Site was conducted by Alta Environmental (Alta) on behalf of the Los Angeles Unified School District Office of Environmental Health and Safety (LAUSD-OEHS) (Alta 2017). Soil samples were collected throughout the Site at various depths and analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), arsenic, lead, and Title 22 metals. While several analytes were detected at concentrations exceeding laboratory detection limits, only lead and arsenic were detected in soil samples exceeding residential screening levels. Alta recommended that a Removal Action Workplan (RAW) be developed for the Site to address shallow soils impacted with lead and/or arsenic in the areas located throughout the campus.

1.1 Objectives of the RAW

This RAW outlines the proposed action at the Site which will focus on the removal and disposal of the majority of soils impacted with the contaminants of concerns (COCs) identified during PEA-E activities. The COC's identified at this Site are lead and arsenic. Excavation was determined to be the preferred removal action (RA) remedy based on accessibility to the majority of the identified impacted soil.

1.1.1 Removal Action Objectives

Removal Action Objectives (RAOs) have been established; these RAOs are presented below:

- Minimize exposure of humans to the COCs in shallow soil through inhalation, dermal absorption, and ingestion;
- Minimize potential for migration of the COCs from the shallow soil to other media, and;
- Remove the majority of accessible impacted soils that exceed the established Site-specific cleanup goals.

The remedial goals developed and adopted for contaminated media at the Site are responsive to these RAOs.

2. SITE INFORMATION

2.1 Site Location and Description

The subject Site is located at 1319 East 41st Street in the city of Los Angeles, Los Angeles County, California. The Los Angeles River is approximately 1.5 miles east of the Site, the Santa Monica 10 Freeway is approximately 1.0 miles north of the Site, the Long Beach 710 Freeway is located approximately 5.5 miles east of the Site, the Glenn Anderson 105 Freeway is located approximately 6.7 miles south of the Site, and the Harbor 110 Freeway is located approximately 2.7 miles west of the Site. The area surrounding the Site is characterized by a combination of residential, commercial/industrial, public park development areas, and public roads and freeways.

A Site Location Map is presented as Figure 1. Figure 2 (PEA-E Sample Location Map) depicts the soil sampling locations from the PEA-E and identifies the locations where soils are impacted with lead and arsenic above established Site-specific cleanup goals.

2.1.1 Site Name, Address and Size

The Site Name: Thomas Jefferson High School

The Site Address: 1319 East 41st Street, Los Angeles, California 90011

The Site Size: approximately 18.15 acres

2.1.2 Mailing Address and Telephone Number

For the purposes of this RAW, the general contact for information is as follows:

Mr. Patrick Schanen
LOS ANGELES UNIFIED SCHOOL DISTRICT
Office of Environmental Health and Safety
333 S. Beaudry Avenue, 21st Floor
Los Angeles, California 90017

2.1.3 EPA Identification Number

The EPA identification (EPA ID) number for the Site is CAD982022485. This number will be used for the generation, transportation, and off-Site disposal of wastes excavated from the Site, as applicable.

2.1.4 Assessor's Parcel Number(s) and Maps

The APNs for the Site are reportedly 5114-036-900, 5114-036-901, 5114-036-902, 5114-036-903, and 5114-036-904.

2.1.5 Ownership

The Site is owned by the Los Angeles Unified School District (LAUSD).

2.2 Operational History and Status

Based on aerial photographs, Sanborn Fire Insurance Maps, building permits, and agency database review, the property was undeveloped as late as 1850. Between 1880 and 1912, the property was cultivated for agricultural use. By 1915, a stadium had been constructed on the Site. By 1916, portions of the present-day Thomas Jefferson High School had been constructed at the Site. The Site has subsequently continually operated as a High School.

2.3 Topography

The Site is approximately 205 feet above mean sea level (amsl) (Partner, 2016a) in the City of Los Angeles, Los Angeles County, California. The area is characterized by a combination of residential, commercial/industrial, public park development areas, and public roads and freeways. Although the topography of the Site is relatively flat, the Site has a slight topographic gradient to the southwest.

2.4 Geology and Hydrogeology

2.4.1 Site Geology and Soil Types

The subject property is situated within the northern portion of the Downey Plain in the Los Angeles Basin in the Transverse Ranges physiographic province of the State of California. The Downey Plain consists of recent alluvial deposits to the southwest of the Los Angeles River that overlie an older weathered surface. Soils in the Site vicinity are generally described as Quaternary age sediments, primarily younger floodplain and stream deposits of recent alluvium and Pleistocene-age Lakewood Formation. The sediments are generally loose to dense sands, silty sands, and silts with some clayey zones. The uppermost geologic formation underlying the soils at the subject property is the Pleistocene Age Beaumont Formation. The Beaumont Formation comprises the underlying stratigraphy and consists mostly of clay, silt and sand deposited in stream channel, point bar, and fluvial environments. The thickness of the Beaumont Formation is estimated to be over 200 feet. The Beaumont Formation is underlain by the Lissie and Willis Formations, which are estimated to be a total of approximately 300 feet thick.

During the PEA-E investigation, soil-matrix sampling identified the shallow soils at the Site to consist of combinations of silts and sands to the maximum explored depth of 10.5 feet below ground surface (bgs).

2.4.2 Site Hydrogeologic Setting

According to topographic map interpretation presented in the Phase I Environmental Site Assessment (Phase 1 ESA) (Partner, 2016b), the direction of groundwater in the vicinity of the Site is inferred to flow toward the southwest. The nearest surface water in the vicinity of the subject property is the Los Angeles River located approximately 1.5 mile east of the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the Site during this assessment.

2.5 Surrounding Land Use and Sensitive Ecosystems

The Site is bounded by East 33rd Street, residential development and a truck storage yard Daylight Transport LLC to the north, Hooper Avenue and residential and commercial development to the west, East 41st Street and residential and commercial development to the south, and Compton Avenue and residential and commercial development to the south of the Site. No areas of ecological interest were identified on or near the subject property.

2.6 Previous Site Investigations

2.6.1 Phase I Environmental Site Assessment (ESA) – Partner

Partner Engineering and Science (Partner) completed a Phase I ESA report in May 2016. The assessment identified the following evidence of recognized environmental conditions (RECs) in connection with the Site:

- The subject property operated on-Site industrial arts classrooms including auto engine and auto body repair. The subject property is equipped with two below-grade hydraulic lifts located within the south end of the former industrial arts building and with a spray booth on the north end of the building. The lifts were reported installed during building construction in the 1960s and the spray booth was installed

in the 1980s. Soil sampling in the area of the lifts and spray booth was recommended to evaluate the potential for releases of hydraulic oil, paints, or solvents to have impacted soil.

- Three oil/water separators (clarifiers) are located to the north and east of the industrial arts building and are connected to floor drains in the spray booth and in the repair areas. Soil sampling in the area of the clarifiers was recommended to evaluate the potential for releases of oil or other petroleum based substances, and solvents that may have impacted soil.

- Historical shop areas are located in several areas of the school property. A shop area in the industrial arts building was previously used for metal, electrical, wood-working, and printing classrooms. Other historic shop areas were located south of the current industrial arts building and in the original 1916 science and arts buildings. This original 1916 science and arts buildings are currently the Academic Building. Based on the age of the historic shop buildings dating to 1920 or earlier, there is potential for septic tanks, sumps, or clarifiers to remain in these areas.

- Two hazardous materials storage enclosures have the potential to have impacted soils. One hazardous materials storage area containing 55-gallon drums of gasoline and diesel fuel is located to the west of the current arts building. The other storage area which is used to store waste oil, filters, and coolant in 55-gallon drums is located to the east of the industrial arts building. Both of these storage areas date to the 1950s or 1960s and the potential exists for releases from these storage areas to have occurred.

- Two historical paint storage buildings were identified to the north and northwest of the boiler house. Potential exists that releases of paints or solvents in these locations has impacted soil,

- The boiler house building was constructed in 1916 and formerly housed fuel oil boilers and an incinerator. The potential exists that fuel oil ASTs and/or USTs were present beneath or near the building and that spillage or leakage from historical fuel storage has impacted soil.

- The northeastern portion of the subject property is used for a garden and appears to have been since prior to original Site development in 1915/1916. Additionally, the center and the northeastern quarter of the property appear to have been used for agriculture until the 1950s or 1960s. Organochlorine pesticides may have been used historically in these areas.

- Based on experience at other LAUSD school sites of similar age, the potential exists for residual arsenates in soil and under pavement from application of arsenic based herbicides.

- Due to the age of the on-Site structures and historical use of the property for agriculture, it was recommended that soil samples be tested for lead, arsenic, and organochlorine pesticides in accordance with the Department of Toxic Substances Control (DTSC) ”Interim Guidance *Evaluation of School Sites with Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphyenyls from Electrical Transformers”* revised June 9, 2006.

2.6.2 Preliminary Endangerment Assessment-Equivalent (PEA-E) – Alta

The PEA-E sampling and analysis program was conducted between July 2016 through November 2016. The sampling and analysis program consisted of 106 primary borings (SS1 through SS106) to evaluate contaminants of potential concern (COPCs) concentrations in shallow soils throughout the Site (Figure 2). One-hundred-thirty (130) additional step-out borings were required to further assess lead and/or arsenic

concentrations in shallow soils (Figures 3 through 8). The lateral and vertical extent of lead and arsenic concentrations exceeding the Department of Toxic Substances (DTSC) screening levels was successfully defined by step-out and step-down soil sampling, and confirmed by fixed laboratory analysis.

Based on the soil matrix sampling conducted during the PEA, the following conclusions were made:

- Soil samples were collected throughout the Site at various depths and analyzed for TPH, VOCs, OCPs, PCBs, arsenic, lead, and Title 22 metals. While several analytes were found at levels in excess of laboratory detection limits, only lead and arsenic were identified in soil samples in excess of residential screening levels.

- Thirty-one areas with shallow soil impacted by lead and/or arsenic in excess of residential screening levels were identified throughout the campus. The shallow step-out soil sampling for lead and arsenic in soil was able to achieve lateral and vertical definition of the areas of impact at the Site. The total estimated amount of impacted soil at the Site is estimated to be approximately 224 cubic yards.

Based on the conclusions of this PEA investigation, Alta recommended that a RAW be prepared to address shallow soils impacted with lead, and/or arsenic in the areas identified throughout the campus.

3. NATURE, SOURCE, AND EXTENT OF ON-SITE CHEMICALS OF CONCERN

3.1 Shallow On-Site Soil

As discussed above, soil samples were collected from various depths across the Site and analyzed for potential COCs. The analysis included TPH, VOCs, PCBs, OCPs, arsenic, lead, and Title 22 metals. While several analytes were found at levels exceeding laboratory detection limits, only lead and arsenic were detected in soil samples exceeding residential screening levels.

3.1.1 COCs in Shallow Soil

Lead-impacted soil appears to be present as a result of historic lead based paint use and/or impacted fill materials. Arsenic impacted soils appear to be present as a suspected result of past use of termiticides throughout the campus.

3.2 Extent and Volume of On-Site Soil Removal

Based on the analytical data collected during the Alta PEA-E, it is estimated that elevated COC concentrations are limited on Site to the areas identified on the attached Figures 3 through 8 and are described in the table below. The estimated volume of impacted soil at the Site above current cleanup goals to be excavated is approximately 224 cubic yards (Table 1).

Site Area Location	Figure Showing Site Area Location	COCs	PEA-E Primary Soil Sample Locations Exceeding Cleanup Goals	Estimated Volume of Impacted Soil (cubic yards)
Southeastern	Figure 3	Arsenic and Lead	SS93, SS95, SS96, SS101, SS102, SS103	64.62

Southwestern (Boy's Gymnasium)	Figure 4	Lead	SS21, SS22	3.04
Southwestern (Power House)	Figure 5	Lead	SS1, SS2, SS32	15.55
Northwestern	Figure 6	Lead	SS73, SS74 SS76	14.81
Northeastern (Homemaking Building)	Figure 7	Arsenic and Lead	SS27, SS38, SS43, SS47, SS92, SS98	52.95
Northeastern (Industrial Arts Building)	Figure 8	Arsenic and Lead	SS53, SS54, SS55, SS68, SS70, SS77, SS79, SS80, SS82, SS87, SS88	73.14

Notes: See Table 1 for step-out sample locations

3.3 Health Effects of Chemicals of Concern

Materials	Route of Exposure	Symptoms	Target Organs
Lead	Inhalation/ingestion/ skin or eye contact	Lassitude, insomnia; facial pallor; anorexia, low weight, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremors; paralysis in the wrists, ankles; encephalopathy; kidney disease; irritation of the eyes; hypotension	Eyes, GI tract, CNS, kidneys, blood, gingival tissue
Arsenic	Inhalation/absorption/ contact/ ingestion	Ulceration of nasal septum, dermatitis, GI disturbances, respiratory irritation, hyper pigmentation of the skin	Liver, kidneys, skin, lunch, lymphatic system

Notes: GI – gastrointestinal CNS – central nervous system

4. RISK EVALUATION AND ON-SITE SOIL CLEANUP GOALS

This section summarizes results from the human health screening evaluation conducted during the PEA-E and presents the cleanup goals for the identified accessible COCs in soil that can be excavated from the Site.

4.1 Summary of PEA-E Human Health Screening Evaluation

The only target analytes found to exceed applicable screening levels during the PEA-E were lead and arsenic in soil. Therefore, a HHSE was conducted to address the lead and arsenic concentrations in soil

only. For the purpose of HHSE, hypothetical adult and child residents were assumed to be exposed to COCs identified in soil by direct dermal contact, incidental ingestion, and inhalation of airborne particulate. The HHSE estimated both carcinogenic and noncarcinogenic risks associated with exposure to hypothetical Site occupants (Alta, 2017).HHSE calculations and analysis are in Appendix A.

4.1.1 HHSE Estimated Carcinogenic Risk

The cumulative carcinogenic risk based on the maximum concentrations of COC's identified at the Site is 1.92E-03. This value exceeds the DTSC's target risk value of 1E-06.

Alta also calculated the cumulative carcinogenic risk using the calculated 95% Upper Confidence Level (UCL) concentration for each COPC. The cumulative carcinogenic risk based on the 95% UCL concentrations of COPC's identified at the Site is 5.96E-04. This value exceeds the DTSC's target risk value of 1E-06.

4.1.2 HHSE Estimated Noncarcinogenic Risk

The cumulative non-carcinogenic risk (Hazard Quotient) based on the maximum concentrations of COPC's identified at the Site is 6.34E+01, which is above the benchmark level for noncancer effects (1.0).

Alta also calculated the cumulative non-carcinogenic risk using the calculated 95% Upper Confidence Level (UCL) concentration for each COPC. The cumulative non-carcinogenic risk based on the 95% UCL concentrations of COPC's identified at the Site is 1.74E+01, which is above the benchmark level for noncancer effects (1.0).

4.2 Recommendation for Further Action

Based on analytical data gathered during the PEA-E and results from the human health screening evaluation, Alta recommends addressing shallow soils impacted with lead and arsenic.

4.3 Soil Excavation Cleanup Goals

The COCs for this Site soils are lead and arsenic. A summary of the COCs, maximum concentration in each area of concern, and cleanup goals are presented on Table 1. The soil cleanup goals are based on residential site screening levels and/or published background concentrations as described below:

- Arsenic: 12 mg/kg based on DTSC's upper bound estimate (95th percentile) for background concentrations in Southern California (DTSC undated).
- Lead: 80 mg/kg based on DTSC-SL for residential land use published in DTSC's HERO Note 3 (DTSC, 2016).

5. REMOVAL ACTIVITIES

5.1 Removal Action Scope

This RAW outlines the remedy for the COCs at the Site, and addresses the accessible metals in soil above cleanup goals that can be practically excavated at the Site. The estimated volume of impacted soil proposed for the RA is approximately 224 cubic yards, based on the analytical data gathered during the PEA-E by Alta (Alta 2017).

5.2 Presumptive Remedy

An immediate soil removal (excavation and off-Site disposal) has generally been accepted as the preferred remedial action for similar site conditions at other similar locations (presumptive remedy). As a presumptive remedy excavation and off-Site disposal has been determined to be the most effective remedy. Therefore, no other alternative removal options will be considered for the accessible COCs in soil that can be practically excavated at this time.

5.3 Description of Selected Removal Action

5.3.1 Soil Excavation

Soil excavation at the Site will remove soil containing the COCs (arsenic and lead) that exceed the cleanup goals listed in Table 1. The excavation will be performed using heavy equipment consisting of, but not limited to, an excavator, backhoe, loader, and dump truck. Ancillary facilities (i.e., wastewater holding tank) will also be used during the removal action. Excavation operations may generate fugitive dust emissions. Suppressant foam, water spray, and other forms of vapor and dust control may be required during excavation, and workers may be required to use personal protective equipment to reduce exposure to the COCs. The depth of excavations may be limited due to physical constraints associated with the Site. Sloping excavation sidewalls and slot-cutting may result in increased volume of soil requiring excavation. Confirmation soil sampling and analysis will be conducted to verify soil impact concentrations at the excavation bottom and sidewalls (see Section 7.8.2).

Excavated soil will be either directly-loaded into waiting dump trucks or temporarily stockpiled within an on-Site “holding area” using a rubber-tire backhoe or similar equipment (such as wheel loader). Any temporary soil stockpiles will be properly secured and protected until ready for loading for off-Site transportation and disposal. Truck loading will take place concurrently with excavation operations, with access of loaders to the stockpile from outside the excavation areas, while excavation operations deposit impacted soil from the excavation areas to the staging areas. Clean, imported soil or other fill material will be brought to the Site to backfill areas where impacted soil was removed. Imported soil and/or other fill material would be accompanied by certificates, analytical data, and/or other supporting documents that indicate the import material is in conformance with cleanup criteria.

5.3.2 Off-Site Disposal

Off-Site disposal involves removing impacted soil from the Site and transporting it to an appropriate off-Site facility for disposal.

The activities that would be conducted to implement this RA are described below.

- Excavate approximately 224 cubic yards of impacted soil from identified locations.
- If necessary, segregate and stockpile impacted soils.
- Conduct confirmation soil sampling using a fixed-base laboratory and compare confirmation data to cleanup goals.
- Load and transport approximately 224 cubic yards of impacted soil to an appropriate disposal facility.
- Grade, backfill, and compact previously excavated areas using clean, imported fill material.

6. APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Previous investigations of the Site indicated the presence of the COCs in soil exceeding the established cleanup goals for this Site. The most effective removal action for soil is excavation and off-Site disposal. This section discusses the applicable or relevant and appropriate requirements (ARARs) for the proposed soil excavation and off-Site disposal.

6.1 Waste Management

An EPA ID number (CAD982022485) has been obtained for proper management of waste generated during soil excavation activities. Based on the laboratory analytical results of soil samples summarized in Table 2, a portion of waste has been profiled as a California-hazardous waste. The volume of soil to be

excavated is estimated at 224 cubic yards. Excavated impacted soils will be transported to a properly certified landfill.

6.2 Health and Safety Plan

All contractors will be responsible for operating in accordance with the most current requirements of 8 CCR, Section 5192 (8 CCR 5192) and Title 29, Code of Federal Regulations (CFR), Section 1910.120 (29 CFR 1910.120), Standards for Hazardous Waste Operations and Emergency Response (HAZWOPER). On-Site personnel are responsible for operating in accordance with all applicable regulations of the Occupational Safety and Health Administration (OSHA) outlined in 8 CCR, General Industry and Construction Safety Orders, and 29 CFR 1910 and 29 CFR 1926, Construction Industry Standards, as well as other applicable federal, state and local laws and regulations. All personnel will operate in compliance with all California Occupational Safety and Health Administration (Cal-OSHA) requirements.

A Site-specific Health and Safety Plan (HASP) shall be prepared for the RAW by the selected RA contractor (herein referred to as “RA Contractor”) and will be included in Appendix B. The HASP will be prepared in general accordance with current federal and OSHA health and safety standards. The provisions of the HASP are mandatory for all personnel and contractors who are at the Site. All on-Site personnel must read and sign the HASP prior to commencing field activities.

6.3 Quality Assurance Project Plan (QAPP)

Quality assurance/ quality control measures that will be used during project execution are documented in the QAPP included as Appendix C. The QAPP will assure that Site field and analytical data collected meet Data Quality Objectives (DQOs).

6.4 Others

All necessary permits and approvals identified in this RAW will be obtained prior to any removal activities. Removal activities will be performed by a California-certified contractor with supervision from a California-registered professional geologist or professional engineer.

7. REMOVAL ACTION IMPLEMENTATION AND REPORTING

7.1 Public Participation Activities

A public participation process has been developed by LAUSD to ensure that the local community has the opportunity to comment and provide input to the decision process adopted for environmental cleanup of their properties. The LAUSD may prepare a Fact Sheet in English and Spanish (which are languages appropriate to the community) to provide general background information for the Site, including a description of the planned RA, public comment opportunities, and the project schedule. The Fact Sheet will be circulated to residences and businesses immediately adjacent to or within line-of-sight of the Site.

A public notice will be published in local newspapers for general circulation in English and Spanish in order to inform the community of the proposed RA and of the availability of the administrative record for public inspection. Copies of the administrative record (i.e., this RAW, and related determination letters for the Site) will be placed at Information Repositories for access by community members.

If a high level of interest in the Site is expressed by the local community, a public meeting to brief interested parties about the proposed activities may be hosted by the LAUSD. In general, public comment periods are 30-days long. If a public meeting is required, it will be held during the public comment period.

7.1.1 Community Survey

As part of the public participation process, a baseline community survey may be conducted prior to RA implementation. This process would involve mailing of survey forms to all local community members,

including businesses owners, residents, and affected parties. Community interviews may also be held with key contacts in the community, as well as elected officials, to solicit community comments concerning the proposed RA.

7.2 Site Preparation and Security Measures

Prior to equipment mobilization for the proposed RA, Site preparation activities will include fieldwork notification, Site inspections, delineation of excavation areas, and utility connections.

7.2.1 Fieldwork notification

Prior to the RA field work activities, a field work notice will be delivered to the businesses and residences within line-of-sight of the Site. Additionally, the field work notices will be delivered to the administrative staff for delivery to the school faculty and staff and enough notices for the administration to hand out to the students. The field work notice will be on blue paper and double-sided, one side in English and one side in Spanish.

7.2.2 Delineation of Excavation Areas

The lateral limits of excavation will extend to the step-out boring location which confirms soil with COC concentrations are less than cleanup goals (Figures 3 through 8). The lateral limits of all excavation areas will be delineated and surveyed by the RA Contractor, in consultation with the client before commencement of removal action activities. The areas to have soil removal will be called the “excavation areas,” and they will be marked (also as the exclusion zones) in the field by the RA Contractor with high-visibility paint. The anticipated excavation boundaries (building walls, utility lines, soil borings with COC concentrations below cleanup goals) along with approximately excavation area dimensions are detailed on Table 1.

7.2.3 Utility Clearance

Clearance of utilities and other hazardous underground obstacles will be conducted prior to initiation of any excavation activities. Such possible obstacles may include water, electrical, gas, oil, communication cable, phone cable, TV cable, and/or sewer lines. At a minimum, the utility clearance will include a 48-hour notification of the local Underground Service Alert (USA) and a Site visit. In addition, a geophysical survey may be conducted as appropriate to clear each excavation area. Underground utilities will be located and the markings inspected to verify they are visible and properly marked. Field crew, equipment operators, and LAUSD-OEHS Site representative will be informed of all these locations during a walk-through prior to initiation of any excavation activities.

Six excavation areas (SS1, SS76C, SS79, SS88, SS95 and SS103) are intersected by subsurface utilities (see Table 1 and Figures 3, 5, 6 and 8). In these areas, the contractor will remain at least two feet away from the mapped location of the utility to avoid damage. Post excavation confirmation sidewall samples will be conducted on both sides of the undisturbed utility, to document the soils that are left in place.

7.2.4 Security Measures

This Site is bounded by a perimeter fence which will increase the likelihood that the work areas are secure and safe. To ensure that trespassers or unauthorized personnel are not allowed near work areas, security measures may include, but are not limited to:

- Posting notices directing visitors to the Site manager.
- Installing barrier fencing around work areas to restrict access to sensitive areas.
- Providing adequate Site security to ensure that unauthorized personnel have no access to work areas and/or contaminated materials.

- Maintaining a safe and secure work area, including areas where equipment is stored or placed, at the close of each workday.
- Persons requesting access to the excavation areas will be required to demonstrate a valid purpose for access and if access to work areas and/or contaminated materials is planned, provide appropriate documentation to demonstrate they have received proper training required by the Site-specific HASP.

7.3 Excavation

All field work will be completed by properly trained and equipped hazardous waste workers. Impacted soil will be removed with earth moving equipment, as necessary, and will involve the use of a backhoe, loader, excavator, and/or shovels. As soil is excavated, it will be loaded directly onto dump trucks to be immediately transported off-Site or temporarily stored in staging areas on Site. If temporarily stockpiled on Site, the soil will be placed and covered with plastic secured with sandbags. In addition, Cal-OSHA Construction Safety Orders (especially 8 CCR 1539 and 1541) will be followed as appropriate.

In the event that one (1) or more confirmation sample concentrations exceed the cleanup goals from an excavation, the excavation will be extended laterally by 5-linear-foot increments where the confirmation sample concentrations exceed the cleanup goal, and additional confirmation samples will be collected and analyzed. If necessary, the process of additional excavation and confirmation sample collection and analysis will be repeated until all confirmation sample concentrations from the completed excavation are less than the cleanup goal or the boundary of the excavation reaches a subsurface utility, a property boundary, or a site/building feature (i.e. building wall, planter wall, fence line, building staircase or ramp).

7.3.1 Contaminant Control

In order to minimize potential exposure of fugitive dust to the adjacent properties, dust monitoring, and if necessary, dust suppression measures will be utilized. Dust suppression measures may consist of spraying water on the excavation area, and other areas susceptible to wind erosion. Care will be taken to avoid excessive water application that could cause a non-storm water runoff event at the Site.

7.3.2 Health and Safety Zones

Health and safety-designated locations such as the Exclusion Zone and Support Zone will be established prior to commencement of field activities. The importance of these zones and their locations will be emphasized with all on-Site workers during daily health and safety tailgate meeting held before RA work activities begin and with each Site visitor or worker as soon as he or she arrives at the Site. The RA Contractor on Site may modify the Site plan during field activities for Site ingress and egress or for health and safety reasons.

7.3.3 Field Documentation

The RA Contractor will be responsible for maintaining field notes during the RA activities. The notes will serve to document observations, personnel on-Site, equipment arrival and departure times, and other vital project information, and will be used in the preparation of the RA Completion Report (RACR).

7.3.4 Field Logbooks

Field logbooks will be used to document where, when, how, and from whom any vital project information was obtained. Daily logbook entries will be complete and accurate enough to permit reconstruction of field activities. Logbooks will be bound with consecutively numbered pages. Each page will be dated and the time of entry noted in military time. All entries will be legible, written in indelible ink, and signed by the individual making the entries. If an error is made, corrections will be made by crossing a line through the

error and entering the correct information. Corrections will be dated and initialed. No entries will be obliterated or rendered unreadable.

- Entries in the field logbook will include at a minimum the following for each fieldwork date:
- Site name and address
- Recorder's name
- Team members and their responsibilities
- Time of site arrival/entry on Site and time of Site departure
- Other personnel on Site
- A summary of any on-site meetings
- Quantity of impacted soil (in terms of non-RCRA and RCRA hazardous waste) excavated
- Quantity of impacted soil (in terms of non-RCRA and RCRA hazardous waste) temporarily stored on Site (if any)
- Quantity of excavated soil in truckloads (in terms of non-RCRA and RCRA hazardous waste) transported off Site
- Names of waste transporters and proposed disposal facilities
- Copies or numbers of manifests or other shipping documents (such as bill of lading) for waste shipments
- Deviations from this RAW and the HASP
- Changes in personnel and responsibilities as well as reasons for the changes
- Levels of safety protection
- Calibration readings for any equipment used and equipment model and serial number

7.3.5 Chain-of-Custody Records

Chain-of-custody records are used to document sample collection and shipment to the laboratory for analysis. All sample shipments for analyses will be accompanied by a chain-of-custody record. Form(s) will be completed and sent with the samples for each laboratory and each shipment. If multiple coolers are sent to a single laboratory on a single day, chain-of-custody form(s) will be completed and sent with the samples for each cooler. The chain-of-custody record will identify the contents of each shipment and maintain the custodial integrity of the samples. Generally, a sample is considered to be in someone's custody if it is either in someone's physical possession, in someone's view, locked up, or kept in a secured area that is restricted to authorized personnel. Until receipt by the laboratory, the custody of the samples will be the responsibility of the sample collector.

7.3.6 Photographs

Photographs will be taken of the excavation area(s), confirmation sample locations, and other areas of interest on Site to document the RA. They will serve to verify information entered in the field logbook. When a photograph is taken, the following information will be written in the logbook or will be recorded in a separate field photography log:

- Time, date, location, and if appropriate, weather conditions

- Description of the subject photographed
- Name of person taking photographs

7.3.7 Permitting and Notifications

As part of Site work, it will be necessary to obtain the following permits and make the following notifications:

- Underground Service Alert (USA);
- Excavation Permit

Other permits and notifications to complete the work may be required by local, state, or federal agencies. The following subsections describe some of the required permitting activities:

7.3.8 Air Quality Management District (AQMD) Permits

South Coast AQMD has two rules that address soil excavation (Rules 1150 and 1166) and one that addresses fugitive dust (Rule 403). Rule 1150 applies to the excavation of sanitary landfills and does not apply to this project. Rule 1166 applies to the excavation of soils containing VOCs and does not apply to this project.

Several elements of Rule 403, such as protocols for mitigation of potential fugitive dust emissions, have been incorporated into this RAW. Excavation, loading, and transport of impacted soils will be in compliance with Rule 403 prevention, reduction, and mitigation measures for fugitive dust emissions. However, notification of South Coast AQMD is required only for large operations (disturbing more than 100 acres or moving more than 10,000 cubic yards per day). Therefore, no notification or filing of a Fugitive Dust Emission Control Plan is required due to the project size.

7.4 Soil Management

Impacted soils will be stockpiled or direct-loaded onto dump trucks for immediate off-Site disposal. The following sections discuss soil and material segregation, stockpile handling, truck loading, and storm water management.

7.4.1 Soil Staging and Storage Operations

If it is necessary to temporarily store the excavated soil on Site until off-Site transportation and disposal are available, the following may apply:

The staging process will be conducted in a manner to minimize the generation of dust. At the staging areas, excavated soil will be placed on an impermeable barrier base (e.g., concrete floor, plastic sheeting) and covered with tarps or other proper materials (e.g., plastic sheeting) to prevent any run-on and/or dust generation. If significant rainfall is anticipated, the staging areas will be bermed to contain any run-off. When possible, excavated soils may be placed in covered roll-off bins or drums, or may be loaded directly onto transportation trucks.

The temporary on-Site storage of excavated soil wastes will be secured until they are ready for loading. Storage of waste for longer than 90 days after its generation is not anticipated.

Direct loading may take place concurrently with excavation operations, with access of loaders to the stockpile from outside the excavation areas, while excavation operations deposit impacted soil from the excavation areas to the staging areas.

During non-excavation hours, excavated soil stockpiles will be covered with plastic sheeting or other proper materials. Additional field applications may involve installation of a temporary canopy, liner, or other

physical barrier that minimizes movement of materials from the Site by wind, water, or any other mechanism.

7.4.2 Waste Segregation Operations

Prior to stockpiling/staging, the excavated soil will be segregated to the extent possible to avoid any mixture of impacted and non-impacted soils. This segregation will minimize the amount of impacted soils generated and their associated disposal cost. The soil segregation will be based on visual observations, generated laboratory data, and the previous site assessment data.

7.5 Decontamination Methods and Procedures

7.5.1 Decontamination Area

Entry to the contaminated areas should be limited to avoid unnecessary exposure and related transfer of contaminants. In unavoidable circumstances, any equipment or truck(s) should be decontaminated in a designated decontamination area before leaving the Site as described below.

7.5.2 Decontamination Procedures

Equipment that comes into direct contact with potentially contaminated soil or water will be decontaminated to assure the quality of samples collected and/or to avoid cross contamination. Disposable equipment intended for one-time use will not be decontaminated but will be packaged for appropriate disposal. Decontamination will occur prior to and after each designated use of a piece of equipment.

Trucks that come into direct contact with potentially contaminated soil or water will be decontaminated before they leave the Site to prevent the off-Site tracking of contaminated soil. Trucks will be visually inspected before leaving the Site, and any dirt adhering to the exterior surfaces will be brushed off and collected on plastic sheeting. The storage bins or beds of the trucks will be inspected to ensure the loads are properly covered and secured. Excavation equipment surfaces will also be brushed off prior to removal from the exclusion zone.

Equipment will be decontaminated in a pre-designated area on pallets or plastic sheeting. Cleaned bulky equipment will be stored on plastic sheeting in uncontaminated areas. Cleaned small equipment will be stored in plastic bags. Materials to be stored more than a few hours will also be covered. Waste material accumulated during decontamination procedures will be collected and properly stored on Site for disposal.

7.6 Air / Meteorological Monitoring and Dust Control

This section details the air and meteorological monitoring strategy and methodologies that will be used during the soil RA. The strategy and methodologies are designed to achieve several goals:

- Identify and measure the air contaminants generated during the soil removal and decontamination activities to assign the appropriate personal protective equipment (PPE) and safety systems specified for those activities.
- Provide feedback to Site operations personnel regarding potential hazards from exposure to hazardous air contaminants generated through Site activities.
- Identify and measure air contaminants at points outside the soil removal and decontamination exclusion zones. Air monitoring will be conducted during work activities to measure potential exposure of sensitive receptors to Site chemical constituents as a result of removal activities.

7.6.1 Air Monitoring

If required, air monitoring will be performed during all Site activities in which contaminated soils are disturbed or handled.

7.6.1.1 Monitoring Dust Levels

The Site air-monitoring professional will have the authority to stop work in the event that on-Site activities generate dust levels which exceed the Site or community action levels (see the following chart). The air-monitoring professional will monitor on-Site meteorological instrumentation and/or coordinate with off-Site meteorological professionals to identify conditions that require cessation of work, e.g., winds in excess of 25 miles per hour (mph). No specific regulatory wind velocity restrictions for soil excavation were found to exist in the subject area. However, a self-imposed action level for work stoppage will be set at a sustained wind velocity of 25 mph.

7.6.1.2 Air Monitoring Strategy and Methodologies

As applicable, the RA Contractor will monitor dust levels in the following general locations:

- Upwind (off-Site property if possible);
- Proximate to the exclusion zone (with the equipment operator);
- Up to three fence line / downwind locations; and
- As deemed necessary to determine employee exposure.

Air monitoring samples will be collected over an eight- to ten-hour period each day that RAW activities are conducted. The air-monitoring professional will check the equipment every 15 minutes during operation.

The RA Contractor will base Site safety procedures, including dust control measures, on the Action Levels specified in the following chart.

EXPOSURE GUIDELINES FOR DUST

Chemical Name	Cal-OSHA PEL [a]	ACGIH TLV [b]	Site Action Levels	Community Action Level (Fence Line) [d, e]
Total dust	10 mg/m^3	10 mg/m^3	1.0 mg/m^3	0.05 mg/m^3
Lead	0.05 mg/m^3	0.05 mg/m^3	0.005 mg/m^3	1.5 µg/m^3
Arsenic	0.01 mg/m^3	0.01 mg/m^3	0.001 mg/m^3	0.003 µg/m^3
Chlordane	0.5 mg/m^3	0.5 mg/m^3	0.05 mg/m^3	0.025 µg/m^3

mg/m^3 = milligrams per cubic meter

ACGIH American Conference of Governmental Industrial Hygienists
ppm parts per million
mg/m3 milligrams per cubic meter
µg/m3 micrograms per cubic meter
a PELs per Cal/OSHA Article 107, Table AC1.
b TLVs for Chemical Substances and Physical Agents and Biological Exposure Indices (ACGIH,1990-1991).
c Site Action Level is calculated as 10 percent of TLV or PEL (as measured by NIOSH methods), whichever is smaller. If a Site Action Level is equaled or exceeded, then additional dust mitigation measures will be implemented. If the Site air contaminants cannot be controlled reliably within 15 minutes, then all work will cease and a Certified Industrial Hygienist will be consulted. If Site Action Levels are exceeded on the integrated air monitors, then a Certified Industrial Hygienist will be immediately consulted.
d Community action level calculated based on Proposition 65 No Significant Risk Level divided by 20 cubic meters per day (breathing rate) and South Coast Air Quality Management District regulations.
e. The National Ambient Air Quality Standard for lead at 1.5 µg/m^3 is selected as the fence-line community action level. Community Action Level for total dust/particulate is based on SCAQMD regulations. Site dust levels will be measured using real-time aerosol monitors.

7.6.2 Meteorological Monitoring

If required, Site ambient weather conditions (wind speed and direction, and relative humidity) will be monitored by the following methods: an off-Site meteorology station, real-time Internet weather locations, and the National Weather Service (if a local station can provide data relevant to the Site). If off-Site meteorological stations cannot provide data relevant to the Site, an on-Site meteorological station will be set up and monitored during excavation activities.

On-Site meteorological monitoring will be performed simultaneously with the excavation activities to ensure all necessary precautions have been taken.

7.6.3 Dust Monitoring

If required, the RA Contractor will implement appropriate procedures to control the generation of airborne dust by soil removal activities. Such procedures will include but will not be limited to the following:

Generation of dust during the removal operations will be minimized as necessary with the use of water as a dust suppressant. The water will be available via service from the adjacent property, a water truck or a metered discharge from a fire hydrant located proximate to the Site. The RA Contractor will control dust generation by directing the contractor to spray water prior to daily work activities, during excavation/loading activities (as necessary), and at truck staging locations. Watering equipment will be continuously available to provide proper dust control.

If required, the air-monitoring professional will monitor on-Site meteorological instrumentation and/or coordinate with off-Site meteorological professionals to identify conditions that require cessation of work.

7.7 Sampling and Analysis Plan

7.7.1 Waste Profile Sampling

Soil having toxicity characteristic leaching potential (TCLP) metal concentrations greater than corresponding TCLP are classified as RCRA hazardous waste. Soil having total threshold limit concentration (TTLC) or soluble threshold limit concentration (STLC) greater than corresponding TTLCs or STLCs, respectively are classified as non-RCRA (California-listed) hazardous waste.

Limited soluble analysis was conducted during the PEA-E (Alta 2017) on selected samples from 27 areas of concern (Table 2). Fifteen of 27 samples were found to contain total or soluble concentrations of a respective COC that would characterize the impacted soil as a California-listed hazardous waste. None were found to be above federal RCRA hazardous waste limits. It is recommended that the actual determination of waste classification be based on profile samples collected from the soils to be disposed of prior to, or during the implementation of the RA. Copies of the laboratory results are included in the PEA-E (Alta 2017) and will be provided to the RA Contractor for profiling prior to excavation. Should the disposal facility require additional profile data, the RA Contractor will collect and submit additional soil data for analysis and provide it to the disposal facility for proper characterization of the excavated soil.

7.7.2 Confirmation Sampling

Once complete, each excavation area will be sampled at the bottom and sidewalls to verify remaining contaminant concentrations, if any. Confirmation soil sample locations will be determined in the field, as the excavation progresses.

Sidewall samples will be collected at approximately one (1) sample for each 20 linear feet of sidewall, with a minimum of one (1) sidewall sample collected from each excavation sidewall, which is less than 20 linear feet wide. Each sidewall location will consist of one sample collected at the midpoint in depth (approximately halfway between the excavation floor and the ground surface surrounding the excavation

perimeter). Bottom samples will be collected at the rate of one sample for each 400 square feet of excavation area at the midpoint of each interval. Additional confirmation sampling will be implemented if any field-evident soil is encountered, based on visual/olfactory field observations.

Arsenic and lead (as applicable) will be analyzed in the field using an X-ray fluorescence (XRF) unit to determine if arsenic or lead detections meet the proposed cleanup goal. A detection will be confirmed with laboratory analysis of the same confirmation sample at the corresponding location.

Confirmation samples for COCs will be collected using a clean trowel or plastic disposable trowels and transferred directly into sampling jars or tubes. The final confirmation samples will be properly covered, labeled and stored on Site in a cooled chest prior to delivery to a California laboratory certified by the Environmental Laboratory Accreditation Program.

Confirmation soil samples will be delivered to the laboratory on the same day collected, if time permits, and no later than the day following collection. The samples will be secured under proper chain-of-custody documentation until delivery.

Confirmation samples will be analyzed as follows.

- Arsenic - U.S. EPA Method 6020
- Lead – U.S. EPA Method 6010

If confirmation sampling results indicate the target cleanup goals have not been attained, further soil sampling and/or soil excavation will be conducted as described in Section 7.3. The excavation will terminate when the cleanup goals are met or it becomes impractical to continue excavating, such as the excavation boundary reaching a subsurface utility, a property boundary, or a site/building feature (i.e. building wall, planter wall, fence line, building staircase or ramp). In this case, the excavated areas will be backfilled in accordance with procedures outlined in Section 7.9.

7.8 Transportation Plan for Off-Site Disposal

As soil is excavated, it will be direct-loaded for transportation off-Site or temporarily stockpiled on Site until off-Site transportation and disposal can be arranged. Off-Site transportation and disposal will typically be conducted during weekdays between 7AM and 5PM. Detailed information on waste transportation and disposal are described in the Transportation Plan (Appendix D).

The RA Contractor will coordinate transportation and off-Site disposal of all wastes generated during RA field activities according to local, California, and Federal laws and regulations. Approval of the waste material will be received from the disposal facility before soil is transported off-Site for lawful disposition. Once the disposal facility is confirmed, the soil will be transported for disposal. The haul trucks may be loaded only to the maximum tonnage as authorized by the US Department of Transportation (US DOT) to prevent overloading and avoid weight issues.

7.9 Backfill and Site Restoration

An off-Site certified source of clean backfill material will be identified prior to the RA. Imported soils will be appropriately tested or documented before backfilling activities commence to verify both environmental and geotechnical suitability. All imported backfill material will be obtained from a certified source or verified by analysis (LAUSD's Specification for Environmental Import/Export Materials Testing Section 01 5424) as clean material. Backfill material will also be tested and verified by analysis for geotechnical suitability by methods and parameters for import acceptance approved by LAUSD's Geotechnical Engineer and documented on the approved project grading plans.

7.9.1 Load Checking

As applicable, all loads of imported fill entering the Site will be checked by an organic vapor analyzer (OVA) or equivalent and by visual screening for potential contamination.

7.9.2 Diversion of Unacceptable Fill Materials

Imported fill soils material will be visually checked for unacceptable materials. If loads containing unacceptable materials (exhibit staining, odors, or detectable VOCs) are dumped, transporters of the unacceptable loads will be stopped before leaving the Site.

Equipment operators will watch for evidence of contaminated imported fill in loads being dumped at the working face. If contaminated soils are found or suspected, the imported fill soils are to be isolated. The hauler of the prohibited materials will be identified, and the Site Manager will be contacted to determine what appropriate actions will be taken.

Segregated improper materials will be removed from the working face immediately. These materials will be reloaded to the transporter's vehicle when possible, or stockpiled in an appropriate area for later removal by a properly-licensed waste hauler.

7.9.3 Documentation of Rejected Loads

All loads that enter the Site that are subsequently rejected will be recorded. Data compiled will include when the incident occurred, who the hauler was, why the load was rejected, whether the load was dumped prior to rejection, and what steps were taken to remove the rejected material. Additional data may be recorded as deemed necessary for the particular situation.

A separate area will always be maintained for the storage of unacceptable materials, pending removal by the original transporter or a properly licensed waste hauler.

7.9.4 Site Restoration

The objective of site restoration is to leave the Site essentially as it was prior to the soil RA. Following completion of RA field activities, all drums, bins, trash, and other waste will be removed. Decontamination water and contaminated soil will be transported to an appropriate disposal facility.

Backfill activities will not begin until confirmation sample results have been evaluated and approval to backfill has been obtained from LAUSD-OEHS. Site restoration will include backfilling the excavation areas with clean soil (from an off-Site source) in accordance with Site construction/grading plans approved for the Site. Backfilling will proceed in approximately 1-foot lifts with compaction (by tracking with a dozer or other equipment) between each successive lift to the preexisting grade or level specified in the grading plans. Compaction testing and certification of backfill by a Geotechnical Engineer will be necessary. All backfill soil will be compacted to 95% compaction (or as designated by approved grading plan) and will be certified and documented by a Geotechnical Engineer per City of Los Angeles and California Division of State Architect (DSA) requirements. Compaction will be certified, and a compaction report provided in the final report for this Site work. If weather conditions prevent immediate restoration of the excavation areas, erosion controls will be established as necessary.

After backfill, compaction, and waste disposal are completed and the Site has been returned to near its original condition, all construction equipment and materials will be removed from the Site. A field survey should be completed to document the final boundaries and location of excavation and backfill activities at the Site.

7.10 Reporting

A report detailing the removal action will be prepared for submittal to LAUSD. The report will document the field activities, including areas of excavation, final disposition of the soil and transport and disposal documentation, results of confirmation soil sampling, dust monitoring and dust suppression activities, , and compaction reporting.

As conditions in the field can vary, it may become necessary to implement modifications to soil removal activities as presented in this RAW. These variations will be documented in the final report.

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TABLES

TABLE 1
Summary of Excavation Area Details
Thomas Jefferson High School
1319 E. 41st Street, Los Angeles, CA

Area of Concern	Figure #	Contaminant(s) of Concern	Maximum Concentration (mg/kg)	Cleanup Goal Concentration (mg/kg)	Approximate Dimensions of Excavation (LxW) (ft)	Depth of Excavation (ft. bgs)	Volume of Excavation (cubic yards)	Waste Classification	Northern Boundary	Eastern Boundary	Southern Boundary	Western Boundary	Surface Material	Notes
SS1	Figure 5	Lead	169	80[1]	10 x 10	1	3.70	California Hazardous	SS1C	Communications Utility Line	SS1D	2 Story Power House Building	Concrete	Electrical line runs through excavation
SS2	Figure 5	Lead	194	80[1]	2 x 5 , 10 x 5	1	2.22	California Hazardous	Two-Story Power House Building	SS2C	Communications Utility Line	Steam Tunnel	Concrete	None
SS2A	Figure 5	Lead	174	80[1]	10 x 5	2	3.70	California Hazardous	Two-Story Power House Building	SS2	Communications Utility Line	SS2D	Concrete	None
SS21	Figure 4	Lead	146	80[1]	10 x 5	1	1.85	Not Determined	Boy's Gymnasium Building	Boy's Gymnasium Building	SS21A	SS21B	Dirt (Planter)	None
SS22	Figure 4	Lead	160	80[1]	4 x 8	1	1.19	Non-Hazardous	Boy's Gymnasium Building	SS22A	SS22B	SS22C	Dirt (Planter)	None
SS27	Figure 7	Lead	268	80[1]	20 x 20	2	29.63	Non-Hazardous	Single-Story Homemaking Building	SS27F	Electrical Utility Line	Electrical Utility Line	Dirt	None
		Arsenic	17.1	12[2]										
SS27A	Figure 7	Lead	87.5	80[1]	15 x 20	1	11.11	Non-Hazardous	Single-Story Homemaking Building	Gas or Oil Utility Line	SS27I	SS27D and SS27L	Dirt	None
SS32	Figure 5	Lead	201	80[1]	20 x 8	1	5.93	California Hazardous	SS32C	Classroom Building	SS32D	Electrical Utility Line	Dirt (Planter)	None
SS38	Figure 7	Lead	107	80[1]	10 x 8	1	2.96	Non-Hazardous	1 Story Building	SS38C	SS38B	SS38A	Asphalt	None
SS43	Figure 7	Lead	85.3	80[1]	10 x 8	1	2.00	Not Determined	SS43A	SS43B	SS43C	1 Story Building	Asphalt	None
SS47	Figure 7	Lead	310	80[1]	10 x 8	1	2.07	Non-Hazardous	SS47A	SS47B	SS47C	1 Story Building	Asphalt	None
SS53	Figure 8	Lead	109	80[1]	10 x 5	1	2.22	Not Determined	SS53B	SS53C	1 Story Industrial Arts Building	SS53A	Concrete	None
SS54	Figure 8	Lead	84.7	80[1]	10 x 10	1	2.96	Non-Hazardous	SS54B	SS54C	1 Story Industrial Arts Building	SS54A	Concrete	None
SS55	Figure 8	Arsenic	20.5	12[2]	15 x 5	1	2.78	Non-Hazardous	1 Story Industrial Arts Building	SS55D	SS55B	SS55A	Asphalt	None
SS68	Figure 8	Lead	241	80[1]	25 x 10	1	9.26	Not Determined	SS68A	Flammable Storage Building	SS68B	SS68E	Asphalt	None
SS70	Figure 8	Lead	134	80[1]	24 x 15	1	13.33	California Hazardous	Electrical Utility	SS70C	1 Story Building	SS70A	Asphalt	None
SS73	Figure 6	Lead	121	80[1]	20 x 10	1	7.41	California Hazardous	SS74D	SS73B	SS73A	1 Story Building	Dirt (Planter)	None
SS74	Figure 6	Lead	247	80[1]	20 x 5	1	3.70	California Hazardous	SS74B	SS74D	1 Story Building	SS74C	Asphalt	None
SS76	Figure 6	Lead	106	80[1]	10 x 5	1	1.85	California Hazardous	Classroom Building	SS76C	SS76B	SS76D	Asphalt	None
SS76C	Figure 6	Lead	570	80[1]	5 x 5	2	1.85	California Hazardous	Classroom Building	Unknown Utility Line	SS76B	SS76	Asphalt	Unknown Utility line runs close to the east side of SS76C

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Summary of Excavation Area Details
Thomas Jefferson High School
1319 E. 41st Street, Los Angeles, CA

Area of Concern	Figure #	Contaminant(s) of Concern	Maximum Concentration (mg/kg)	Cleanup Goal Concentration (mg/kg)	Approximate Dimensions of Excavation (LxW) (ft)	Depth of Excavation (ft. bgs)	Volume of Excavation (cubic yards)	Waste Classification	Northern Boundary	Eastern Boundary	Southern Boundary	Western Boundary	Surface Material	Notes
SS77	Figure 8	Lead	848	80[1]	10 x 10	1	3.70	California Hazardous	SS77C	Electrical and Gas/Oil Utility Line	SS77A	1 Story Building	Asphalt	None
SS77A	Figure 8	Lead	468	80[1]	5 x 5	2	1.85	California Hazardous	SS77	Electrical and Gas/Oil Utility Line	Electrical Utility	1 Story Building	Asphalt	None
SS79	Figure 8	Lead	192	80[1]	20 x 20	1	14.81	California Hazardous	Unknown Utility Line	1 Story Building	SS79C	Electrical Utility Line	Asphalt	Communications and Electricsl Utility lines run through excavation
SS80	Figure 8	Lead	146	80[1]	15 x 10	1	5.56	California Hazardous	Classroom Building	SS80C	SS80B	SS80A	Asphalt	None
SS82	Figure 8	Lead	88.7	80[1]	10 x 5	1	1.85	Non-Hazardous	SS82C	SS82B	SS82A	1 Story Building	Asphalt	None
SS87	Figure 8	Lead	131	80[1]	10 x 10, 15 x 15	1	12.04	California Hazardous	SS87F	1 Story Building	SS87E	SS87B and SS87H	Asphalt	None
SS88	Figure 8	Lead	154	80[1]	15 x 5	1	2.78	Non-Hazardous	Classroom Building	SS88C	SS88B	SS88A	Asphalt	Uknown utility line runs through excavation
		Arsenic	14.4	12[2]										
SS92	Figure 7	Lead	80.9	80[1]	10 x 10	1	3.70	Non-Hazardous	SS92A	Rainwater Storage Building	SS92C	SS92B	Asphalt	None
SS93	Figure 3	Lead	204	80[1]	25 x 5	1	4.63	Non-Hazardous	SS93E	SS93G	1 Story Building	SS93F	Dirt	None
SS95	Figure 3	Lead	132	80[1]	15 x 7	1	4.44	California Hazardous	Classroom Building	SS95C	Electrical Utility Line and SS101B	Staircase for 1 Story Building	Concrete	Electrical line runs through excavation
SS96	Figure 3	Lead	602	80[1]	17 x 9, 5 x 4	1	6.30	California Hazardous	Unknown Utility Line	Sidewalk and SS96B	SS96A	1 Story Building	Dirt	None
SS98	Figure 7	Lead	108	80[1]	8 x 5	1	1.48	California Hazardous	Electrical Utility Line and Building	Flammable Storage Building	SS98C	SS98B	Asphalt	None
SS101	Figure 3	Lead	104	80[1]	7 x 7	2	3.62	Non-Hazardous	SS95B	SS101A	Music Building	SS101C	Concrete	None
		Arsenic	21.1	12[2]										
SS102	Figure 3	Lead	92.3	80[1]	8 x 4	1	1.19	California Hazardous	SS102C	Music Building	SS102A	SS102B	Concrete	None
SS103	Figure 3	Lead	150	80[1]	40 x 30	1	44.44	Not Determined	Music Building	Sidewalk	Unknown Utility Line	SS103A and SS103F	Grass	Gas or Oil Utility Line running through excavation

Notes:
ft. bgs. = feet below ground surface
mg/kg = milligrams per kilogram
L x W = Length x Width
[1] Department of Toxic Substances Control (DTSC) Modified Screening Level (DTSC-SL)
for residential land use published in DTSC's Human and Ecological Risk Office (HERO) Note 3 (DTSC 2016)
[2] DTSC upper bound estimate (95th percentile) for background concentrations in Southern California (DTSC undated)

TABLE 2
Summary of Shallow Soil Matrix STLC and TCLP Results
Thomas Jefferson High School RAW
1319 E. 41st Street, Los Angeles, CA

Sample ID	Total and Soluble Waste Threshold Concentrations						Waste Characterization
	Lead - TTLC (mg/kg)	Lead - STLC (mg/L)	Lead - TCLP (mg/L)	Arsenic - TTLC (mg/kg)	Arsenic - STLC (mg/L)	Lead - TCLP (mg/L)	
Hazardous Waste Limits	1,000	5	5	500	5	5	
SS1A-0.5	169	15.4	0.203	▪	▪	▪	California Hazardous
SS2A-0.5	174	15.1	0.302	▪	▪	▪	California Hazardous
SS22A-0.5	68.8	3.26	0.022 J	▪	▪	▪	Non-Hazardous
SS22C-0.5	59.7	2.16	0.008 J	▪	▪	▪	Non-Hazardous
SS27C-1.5	▪	▪	▪	17.1	1.08	0.01	Non-Hazardous
SS32A-0.5	201	83.7	0.020 J	▪	▪	▪	California Hazardous
SS38C-0.5	71.7	3.1	0.011J	▪	▪	▪	Non-Hazardous
SS47C-0.5	62.7	3.32	0.017 J	▪	▪	▪	Non-Hazardous
SS54C-0.5	63.6	4.47	0.036 J	▪	▪	▪	Non-Hazardous
SS55C-0.5	▪	▪	▪	12.8	0.16	0.029 J	Non-Hazardous
SS70B-0.5	134	11.5	0.16	▪	▪	▪	California Hazardous
SS73C-0.5	121	6.51	< 0.004	▪	▪	▪	California Hazardous
SS74A-0.5	247	17.6	0.107	▪	▪	▪	California Hazardous
SS76C-1.5	570	9.14	0.147	▪	▪	▪	California Hazardous
SS77A-0.5	468	36.2	0.302	▪	▪	▪	California Hazardous
SS79D-0.5DUP	121	8.68	0.16	▪	▪	▪	California Hazardous
SS80C-0.5	131	9.88	0.089	▪	▪	▪	California Hazardous
SS82C-0.5	55	3.53	0.06	▪	▪	▪	Non-Hazardous
SS87C-0.5	131	10.8	0.07	▪	▪	▪	California Hazardous
SS88C-0.5	▪	▪	▪	14.4	1.353	0.056	Non-Hazardous
SS92C-0.5	55.7	2.32	0.006 J	▪	▪	▪	Non-Hazardous
SS93A-0.5	204	4.15	0.024 J	▪	▪	▪	Non-Hazardous
SS95A-0.5	132	14.1	0.056	▪	▪	▪	California Hazardous
SS96C-0.5	602	15.8	0.182	▪	▪	▪	California Hazardous
SS98B-0.5	27.8	0.636	<0.004	▪	▪	▪	Non-Hazardous
SS101B-1.5	▪	▪	▪	19.4	1.55	0.201	Non-Hazardous
SS102A-0.5	74.8	7.34	0.067	▪	▪	▪	California Hazardous

NOTES:

▪ = Not analyzed

STLC = Soluble Threshold Limit Concentration

TTLC = Total Treshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

J=concentration is between method detection limit and laboratory reporting limit.

mg/L = milligrams per liter

mg/kg = milligrams per kilogram

= Concentration exceeds the value of the Hazardous Waste Limit

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FIGURES

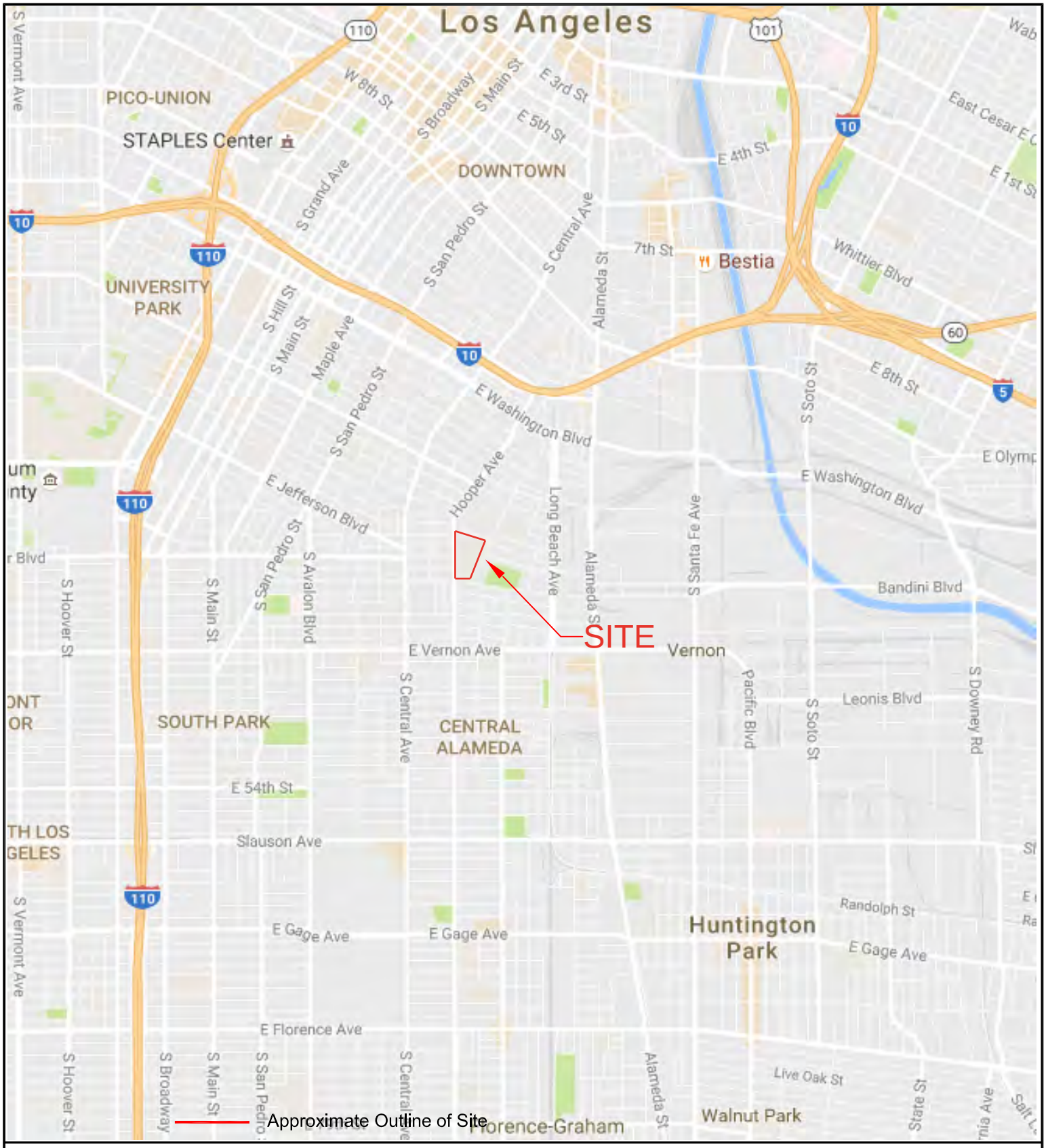

FIGURE 1: SITE LOCATION MAP

CLIENT: Los Angeles Unified School District	SITE LOCATION: Thomas Jefferson High School 1319 East 41st Street, Los Angeles, California
PROJECT #: LAUS-16-6714	

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3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: BP	APPROVED: EF	NORTH
SCALE: None	DATE: 8/17/2016	

LEGEND:

- Approximate Sample Location
- Approximate Sample Locations with lead and arsenic concentrations in exceedance of acceptable screening levels

NOTE:
All location are approximate.

Figure created in color. Significant information may be lost if copied in black and white.

FIGURE 2: PEA-E Sample Location Map

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: July 2016
SITE: Thomas Jefferson High School 1319 East 41st Street Los Angeles, California	ALTA ENVIRONMENTAL	
PROJ. NO.: LAUS-17-6714	3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com	

SOURCE : GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)

Note: All Locations are Approximate

- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line
- Fire Suppression Line

Figure created in color. Significant information may be lost if copied in black and white.

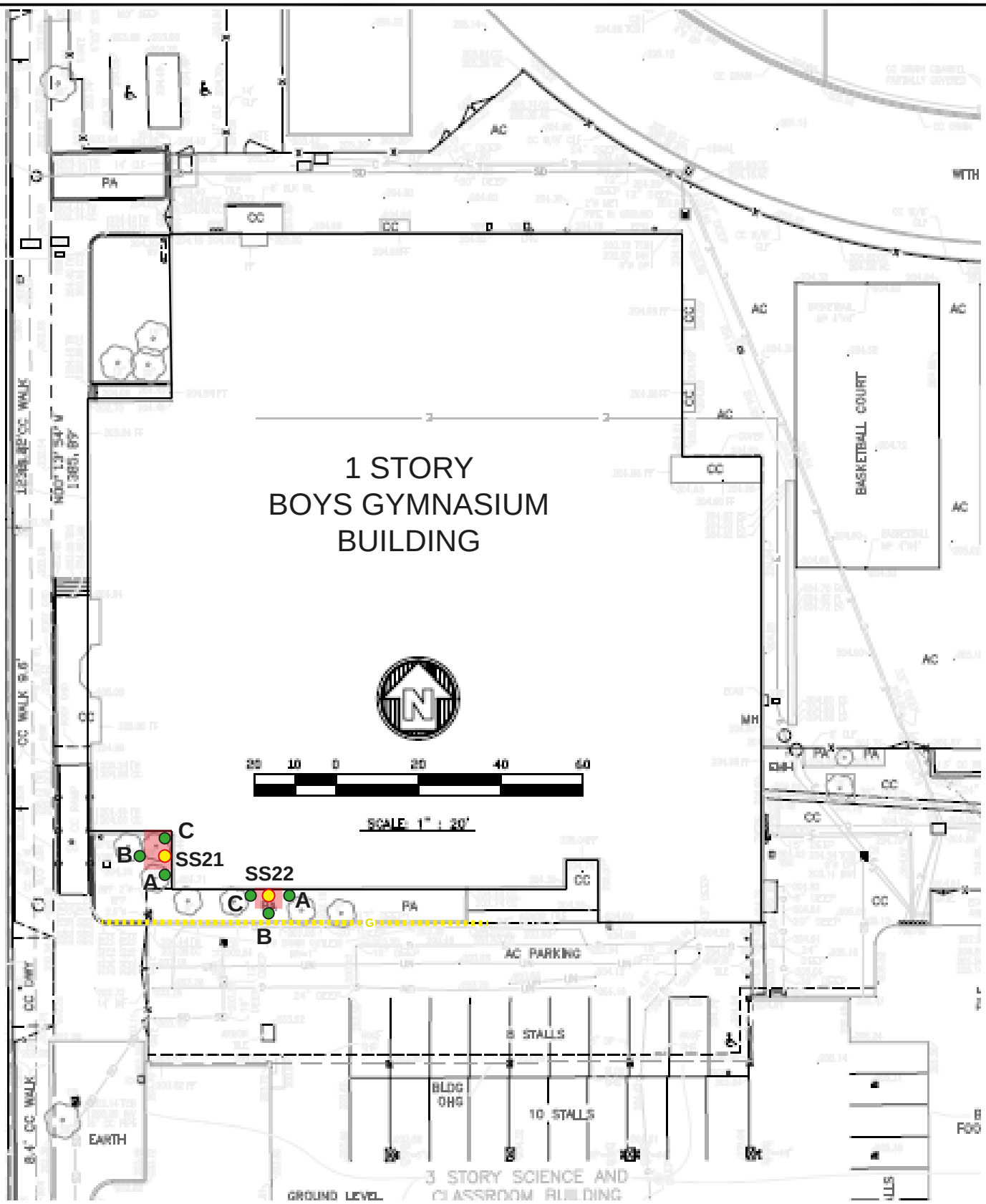
Figure 3: PEA-E Southeastern Step-out Sample Locations and Area of Impacted Soil

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-17-6714

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenvIron.com



SOURCE: GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 4: PEA-E Southwestern Step-Out Sample Locations and Areas of Impacted Soil (Boy's Gymnasium)

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-17-6714

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3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
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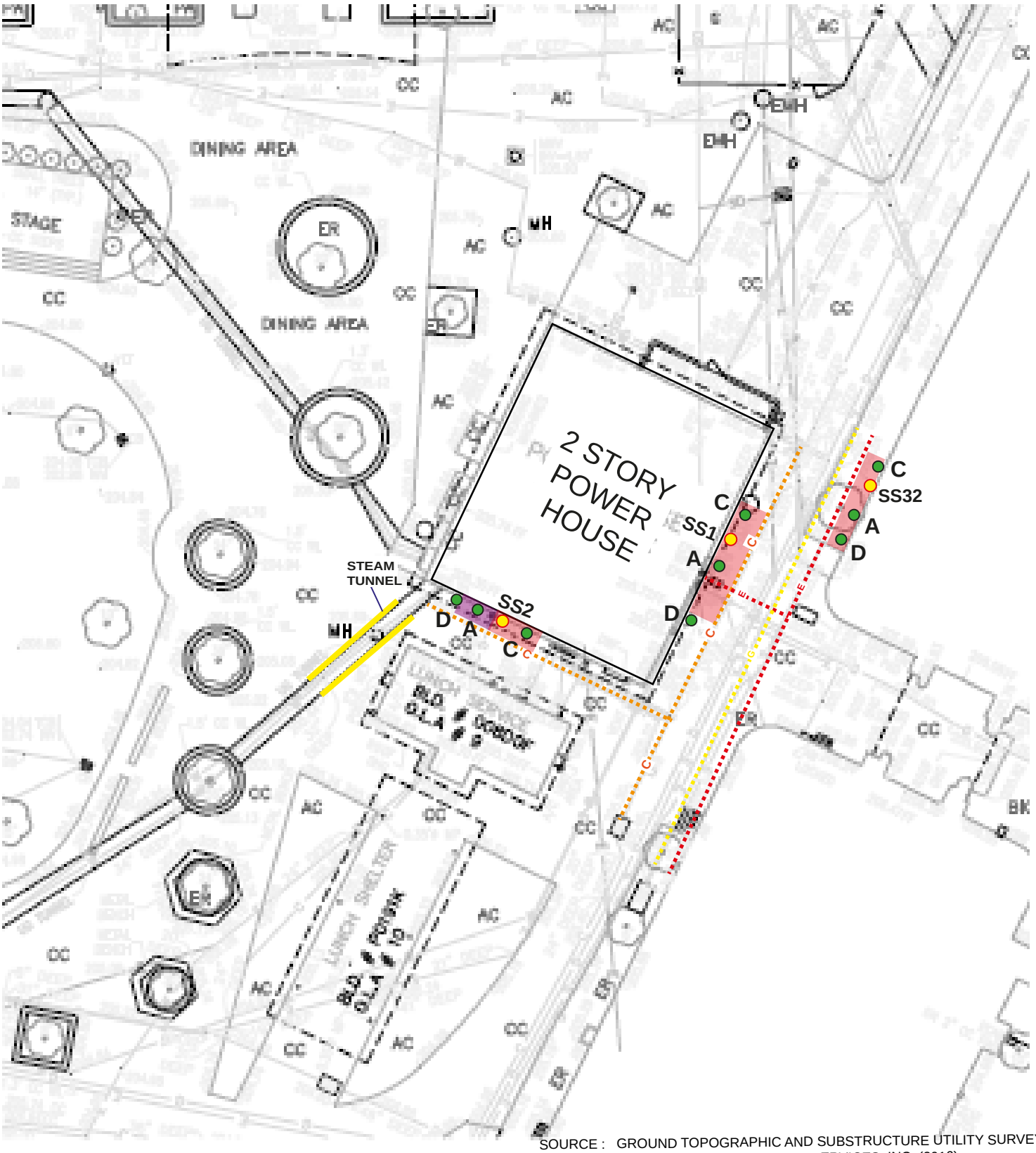


SOURCE : GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

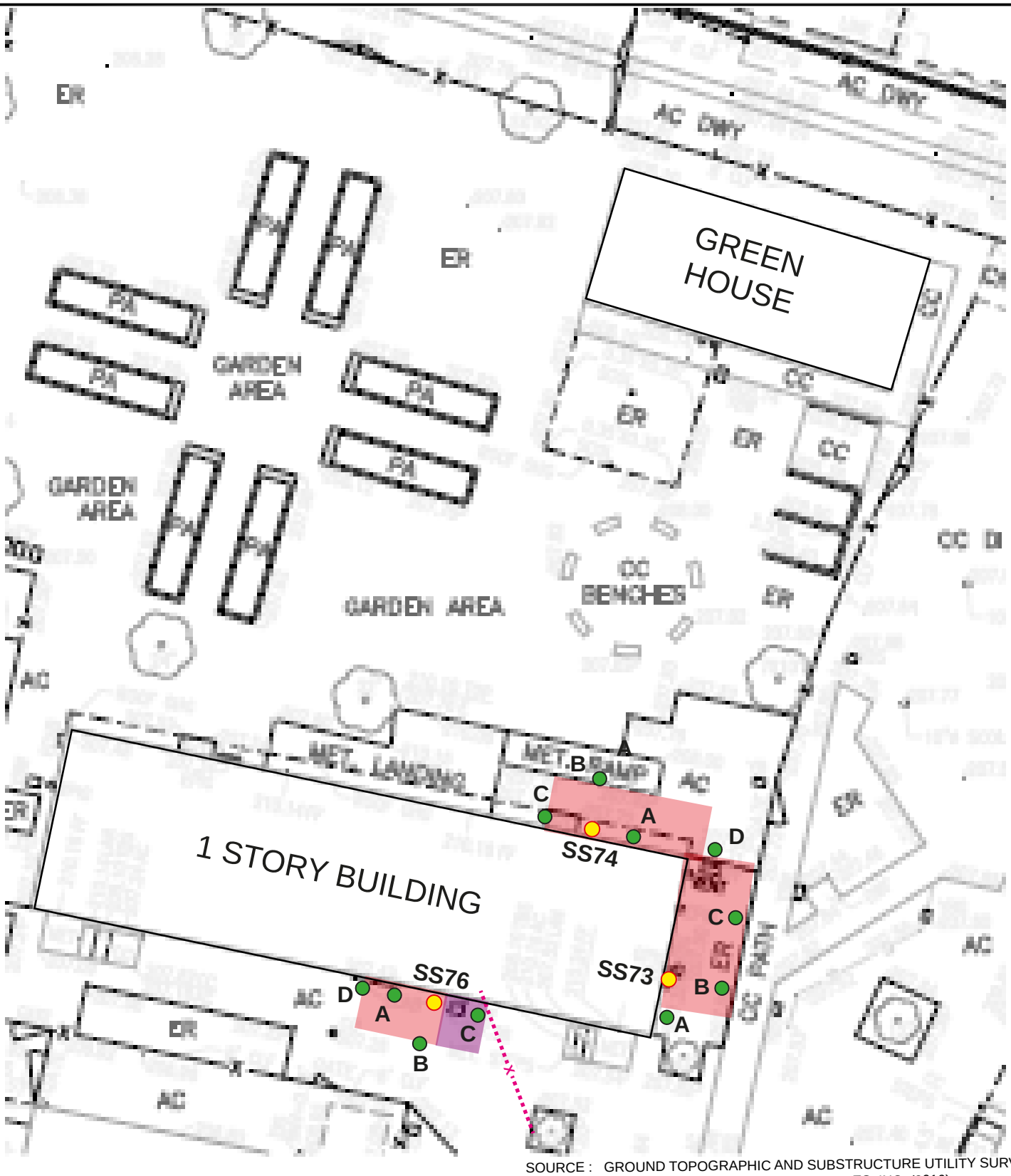
- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 5: PEA-E Southwestern Step-Out Sample Locations and Areas of Impacted Soil (Power House)

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017
SITE: Thomas Jefferson High School 1319 East 41st Street Los Angeles, California	ALTA ENVIRONMENTAL	
PROJ. NO.: LAUS-16-6714	3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com	



SOURCE : GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 6: PEA-E Northwestern Step-Out Sample Locations and Area of Impacted Soil

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-16-6714

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com

SOURCE : GROUND TOPOGRAPHIC AND SUBSTRUCTURE UTILITY SURVEY BY SURVEYING & DRAFTING SERVICES, INC. (2016)

LEGEND:

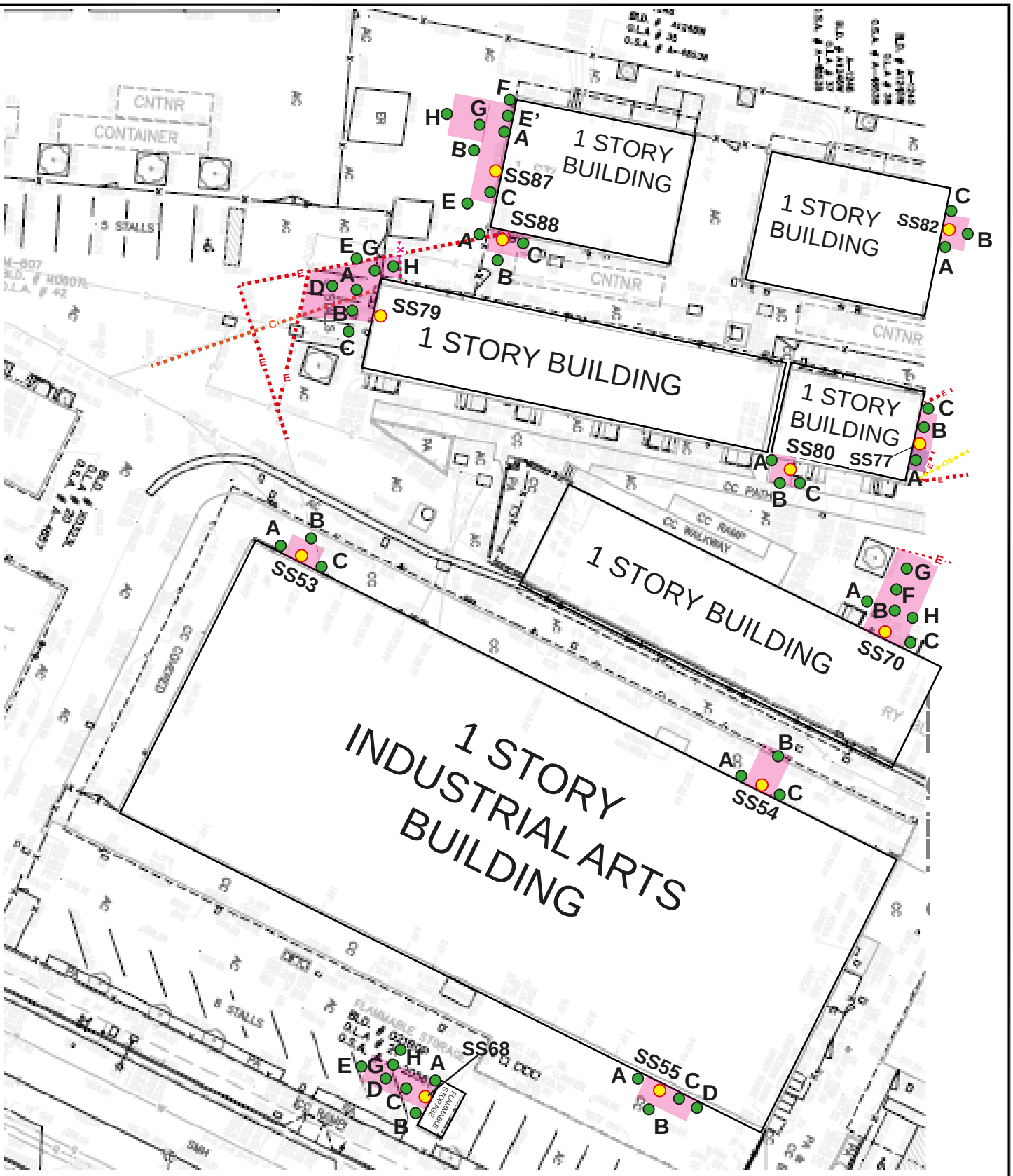
- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 7: PEA-E Northeastern Step-Out Sample Locations and Areas of Impacted Soil (Homemaking Building)

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP APPROVED: EF SCALE: No scale DATE: March 2017
SITE: Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California	ALTA ENVIRONMENTAL
PROJ. NO.: LAUS-17-6714	3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com



LEGEND:

- Approximate Sample Location
- Approximate Step-out Sample Location
- Approximate Area of Impacted Soil (1 ft)
- Approximate Area of Impacted Soil (2 ft)
- E — Electrical Power Line
- W — Potable Water
- C — Communication/Cable Line
- G — Gas or Oil Line
- S — Sewer or Drain Line
- X — Unknown Utility Line

Note: Alll Locations are Approximate

Figure created in color. Significant information may be lost if copied in black and white.

Figure 8: PEA-E Northeastern Step-Out Sample Locations and Areas of Impacted Soil (Industrial Arts Building)

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: March 2017

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-16-6714

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APPENDIX A

Human Health Screening Evaluation

Human Health Screening Evaluation - Soil
Thomas Jefferson High School PEA-Equivalent
1319 E. 41st Street, Los Angeles, CA

Maxium Detected Concentrations

Constituent of Concern	Maximum Detected Concentration	Sample Location	Sample Depth	Cancer Screening Level	Source	Non-Cancer Screening Level	Source	Calculated Cancer Risk	Calculated Hazard Index
	mg/kg		Feet BGS	(mg/kg)		(mg/kg)			
Arsenic	21.1	SS101	0-0.5	0.11	Note 3	0.40	Note 3	1.92E-03	5.28E+01
Lead	848	SS77D	0-0.5	▪	Note 3	80	Note 3	▪	1.06E+01
Cumulative Risk								**1.92E-03**	**6.34E+01**

95% UCL Concentrations

Constituent of Concern	95% UCL Concentration	Cancer Screening Level	Source	Non-Cancer Screening Level	Source	Calculated Cancer Risk	Calculated Hazard Index
	mg/kg	(mg/kg)		(mg/kg)			
Arsenic	6.55	0.11	Note 3	0.40	Note 3	5.96E-04	1.64E+01
Lead	81.4	▪	Note 3	80	Note 3	▪	1.02E+00
Cumulative Risk						**5.96E-04**	**1.74E+01**

NOTES:

▪ = Not Appicable

mg/kg = milligrams per kilogram

Feet BGS = feet below ground surface

UCL = Upper Confidence Limit

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APPENDIX B

Health and Safety Plan (HASP)

DOCUMENT PLACEHOLDER

HASP TO BE PREPARED BY RA CONTRACTOR AND INCLUDED IN RAW

APPENDIX C

Quality Assurance Project Plan (QAPP)

Thomas Jefferson High School Comprehensive Modernization
1319 East 41st Street
Los Angeles, California 90011

QUALITY ASSURANCE PROJECT PLAN

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 28th Floor
Los Angeles, California 90012

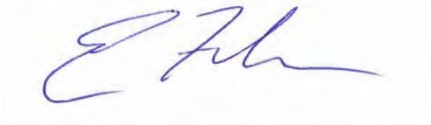
LAUS-17-6714
May 10, 2017

Alta Environmental
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807 www.altaenviron.com

QUALITY ASSURANCE PROJECT PLAN

Los Angeles Unified School District
Thomas Jefferson High School Comprehensive Modernization
1319 E. 41st Street
Los Angeles, California

This Quality Assurance Project Plan (QAPP) for the Thomas Jefferson High School Removal Action Workplan (RAW) Implementation, located in the City of Los Angeles, California, was prepared by Alta Environmental on behalf of the Los Angeles Unified School District in a manner consistent with the level of care and skill ordinarily exercised by professional engineers, geologists, and environmental scientists. This report was prepared under the technical direction of the undersigned.



Eric Fraske, P.E.
Senior Project Manager/Engineer III

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1. INTRODUCTION/BACKGROUND

This *Quality Assurance Project Plan* (QAPP) has been prepared by Alta Environmental (Alta) on behalf of the Los Angeles Unified School District (LAUSD) to address quality assurance (QA) and quality control (QC) policies associated with the collection of environmental data at Thomas Jefferson High School Comprehensive Modernization Project Site (the "Site") located in Los Angeles, California (Figure 1). Together with the confirmation sampling plan provided in the *Removal Action Workplan* (RAW) (Alta, 2017), this QAPP presents the plan for sampling and analysis as part of the Remedial Action (RA) field activities for the Site. The purpose of this QAPP is to identify the methods to be employed to establish technical accuracy, precision, and validity of data that are generated during the RA for the Site.

The sampling program is formally described in the *Sampling and Analysis Plan* section of the RAW (Alta, 2017). This QAPP contains general and specific details regarding field sampling, laboratory and analytical procedures that apply to activities described in the sampling and analysis plan. This document provides field and laboratory personnel with instructions regarding activities to be performed before, during, and after field investigations. These instructions will ensure data collected for use in the project decisions will be of the type and quality needed and expected for their intended purpose.

Guidelines followed in preparation of this QAPP are described in the USEPA's *Requirements for Quality Assurance Project Plans,* EPA QA/R-5 (USEPA, 2001) and *Guidance for Quality Assurance Project Plans,* EPA QA/G-5 (USEPA, 2002). Other documents referenced in this plan include *Guidance for the Data Quality Objectives Process,* EPA QA/G-4 (USEPA, 1994) and *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (USEPA, SW-846, Third Edition, 1996).

1.1 Project History and Objectives

Project Site	Thomas Jefferson High School
Project Proponent	Los Angeles Unified School District
Property Owner	Los Angeles Unified School District
Chemicals of Concern (COCs)	Arsenic and Lead
Clean Up Goals	Arsenic: 12 milligrams per kilogram (mg/kg) Lead: 80 mg/kg
Estimated Volume of Soil Removal	224 cubic yards

The LAUSD is planning a redevelopment project at the existing Thomas Jefferson High School located at 1319 E. 41st Street in Los Angeles, California. PEA-E activities (Alta, 2016) identified several isolated areas throughout the campus with shallow soils that are impacted with lead, arsenic, or combination thereof. This QAPP concerns the remedial activities at the Site.

2. PROJECT DESCRIPTION

This section presents information concerning the proposed sampling activities, selected analytical parameters, data objectives, and the resulting project decisions.

2.1 Analytical Scope

Following soil excavations, confirmation soil samples will be collected from the locations specified in the *Confirmation Sampling* section of the RAW (Alta, 2017). The soil matrix confirmation samples will be analyzed for the specific COCs associated with the impacted areas, which is defined in the *Nature,*

Source, and Extent of On-Site Chemicals of Concern section of the RAW (Alta, 2017). The COCs associated with the impacted areas are arsenic and lead in soil.

The confirmation soil samples collected for analysis of arsenic and lead impacted soils shall be initially screened in the field utilizing a portable X-ray fluorescence (XRF) unit. Offsite laboratory analysis shall be performed on all aliquot arsenic and lead samples collected from the excavation sidewalls and bottoms, below the cleanup goals as reported by XRF. Samples designated for offsite laboratory analysis shall remain in the sample container utilized for XRF screening. All confirmation samples collected for arsenic analysis will be analyzed by EPA Method 6020 and all confirmation samples collected for lead will be analyzed by EPA Method 6010.

All sample containers will be capped, sealed, labeled, and stored in a cool ice chest prior to sending to the offsite laboratory for analysis. All confirmation samples for analysis of COCs will be collected into containers as described in Table 1 and preserved at less than 6°C. The soil samples will be delivered to a California-certified laboratory for analysis by standard USEPA Methods. The sampling program will be in accordance with the details provided in the QAPP. The appropriate analyses selected for this field program, and the rationale for selection of these parameters, are further provided in the RAW (Alta, 2017).

2.2 Data Use

Decisions to be made based on the planned sampling and analysis effort will be determined by the data compiled from the sampling and analysis program. It is intended that data collected through implementation of this QAPP will satisfy federal, state, and local data quality requirements. The data may be used to characterize the nature and extent of any residual contamination, support the completeness of the remedial action, or assist in determination of additional actions.

The presence of environmental contaminants will be determined by the extent of valid detectable concentrations of the constituents discussed above. If the data associated with any COCs are confirmed, the data will be compared to the cleanup goals on a wet-weight basis. If results are below the proposed cleanup levels, then the LAUSD will use the data to support a “no further action” determination. If the evaluation indicates unacceptable risks of exposure, then the data can be used by the LAUSD for further consideration of action.

3. PROJECT ORGANIZATION

This section provides a description of the organizational structure and responsibilities of the individual positions for this project. This description defines the lines of communication and identifies key personnel assigned to various activities for the project.

3.1 Los Angeles Unified School District

LAUSD‘s Project Manager will be responsible for the directional decisions, as well as budget control, for work conducted at the Site. LAUSD will perform document review of related work plans, reports, and drawings for activities associated with this project.

3.2 RAW Implementation Contractor

The LAUSD investigation contractor has responsibility for assigned phases of investigation and reporting. Together, the management team (Project Manager [PM], Field Team Leader and the Health and Safety Coordinator) will be responsible for the technical planning and implementation of the work prescribed in the RAW (Alta, 2017). The QA staff has the responsibility for effective planning, verification and management of QA activities associated with the assigned project.

The contractor's Project Manager (PM) will serve as the primary contact for the LAUSD. The PM will have the authority to commit the necessary resources to ensure timely completion of the project tasks. Responsibilities include strategy development, schedule creation, budget control and document review. The PM will also be responsible for the day-to-day coordination, along with the subcontractors and field crews, to ensure field activities conform to the specifications presented in the RAW (Alta, 2017) and health and safety plan.

The contractor's Health and Safety Coordinator will be responsible for ensuring that the health and safety plan is properly implemented during fieldwork.

The contractor's QA Manager will be responsible for the QA and QC aspects of the project. It is the responsibility of the QA Manager to ensure that all required QA/QC protocols are met in the field and laboratory and to provide oversight of related data validation activities.

3.3 Laboratory

The offsite laboratory employed for this project will hold current testing laboratory certification by the State of California in each analysis required for the proper execution and completion of the project. A certified laboratory will perform analytical testing for soil samples collected for this investigation. The laboratory's project manager will report to the LAUSD contractor's PM on all aspects of the sample analysis. In addition, the contractor's QA Manager shall be advised of any matters related to data quality during the course of the investigation. The laboratory will conform to the QA and QC procedures outlined in their laboratory QA/QC plan.

4. DATA QUALITY OBJECTIVES

Data quality objectives (DQOs) have been specified for each data collection activity, and the work will be conducted and documented so that the data collected are of sufficient quality for their intended use (USEPA, 1998). DQOs specify the data type, quality, quantity, and uses needed to make decisions and are the basis for designing data collection activities. The DQOs were used to design the data collection activities presented in the *Sampling and Analysis Plan* section of the RAW (Alta, 2017). The DQOs for the project are discussed in the following sections.

4.1 Data Quality Objective Process

The project DQOs developed specifically for the planned sampling and analysis program have been determined based on the USEPA's seven-step DQO process (USEPA, 1994). The PM will evaluate the project DQOs to determine whether the quantitative and qualitative needs of the sampling and analysis program have been met. The project definition associated with each step of the DQO process is summarized as follows:

- **State the Problem:** The purpose of the sampling program is to confirm that the RA is complete.
- **Identify the Decision:** The data obtained from the sampling and testing activities will be used to evaluate whether COCs remain in soil at concentrations above the preliminary cleanup goals. Based on a review of the data, the need for additional sampling will be determined.
- **Identify Inputs to the Decision:** Inputs to the decision will include results of analytical testing soil samples. The samples will be tested for the specified analytes discussed in Section 2.
- **Define the Study Boundaries:** The boundaries of the field sampling and analysis program were defined in the RAW (Alta, 2017).
- **Develop a Decision Rule:** Decisions will be based on laboratory results for the target constituents presented in Table 1 for each respective matrix tested. If the concentrations of target compounds are

below the preliminary cleanup goals, then a decision will be made that no further action is required. If target constituents are detected in the samples tested, then the data will be compiled for use in determining the need for further step-out and step-down sampling.

- **Specify Limits on Decision Error:** The results of all analytical testing will be subjected to data validation as specified in Section 8.5 of this plan. Data are determined to be valid if the specified limits on precision, accuracy, representativeness, comparability and completeness are achieved. The results of any detected target constituents will be considered in evaluating the need for additional sampling of the Site and assessing the necessity of reducing any risks posed by the potential contamination.
- **Optimize the Design:** The sampling and analysis plan has been designed to provide the type and quantity of data needed to satisfy each of the aforementioned objectives. The quality of the data will be assessed through the procedures further described in this QAPP.

4.2 Precision, Accuracy, Representativeness, Comparability and Completeness

The basis for assessing the elements of data quality is discussed in the following subsections. In the absence of laboratory-specific precision and accuracy limits, the QC limits listed in this section must be met.

4.2.1 Precision

Precision measures the reproducibility of repetitive measurements. It is strictly defined as the degree of mutual agreement among independent measurements as the result of repeated application of the sample process under similar conditions.

Analytical precision is a measurement of the variability associated with duplicate or replicate analyses of the same sample in the laboratory, and is determined by analysis of laboratory QC samples, such as laboratory control sample duplicates (LCSD), matrix spike duplicates (MSD), or sample duplicates. If the recoveries of analytes in the specified control samples are comparable within established control limits, then precision is within limits.

Total precision is a measurement of the variability associated with the entire sampling and analytical process. It is determined by analysis of duplicate or replicate field samples, and measures variability introduced by both the laboratory and field operations. Field duplicate samples are analyzed to assess field and analytical precision.

Duplicate results are assessed using the relative percent difference (RPD) between duplicate measurements. If the RPD for laboratory QC samples exceeds the laboratory's statistically determined acceptance ranges, data will be qualified as described in the application validation procedure. If the RPD between primary and duplicate field samples exceeds 100 percent for soil, data will be qualified as described in the applicable validation procedure. The RPD will be calculated as follows:

$$\%RPD = 200 \times \frac{X_2 - X_1}{X_2 + X_1}$$

(Where X_1 is the smaller of the two observed values)

4.2.2 Accuracy

Accuracy is a statistical measurement of correctness and includes components of random error (variability due to imprecision) and systematic error. It reflects the total error associated with a measurement. A measurement is accurate when the value reported does not differ from the true value or known concentration of the spike or standard.

Accuracy of laboratory analyses will be assessed by laboratory control samples, surrogate standards, matrix spikes and initial and continuing calibrations of instruments. Laboratory accuracy is expressed as the percent recovery (%R). . If the %R is determined to be outside acceptance criteria, data will be qualified as described in the applicable validation procedure. The calculation of percent recovery is provided below:

$$\%R = 100\% \times \frac{X_s - X}{T}$$

(Where X_s is the measured value of the spiked sample, X is the measured value of the non-spiked sample, and T is the true value of the spike solution added)

Field accuracy will be assessed through the analysis of field equipment blanks. Analysis of blanks will monitor errors associated with the sampling process and field contamination. The DQO for field equipment and trip blanks is that all values are less than the reporting limit for each target constituent. If contamination is reported in the field equipment blanks, data will be qualified as described in the applicable validation procedure.

4.2.3 Representativeness

Representativeness is the degree to which data accurately and precisely present selected characteristics of the media sampled. Representativeness of data collection is addressed by careful preparation of sampling and analysis programs. This QAPP, together with the RAW, addresses representativeness by specifying sufficient and proper numbers and locations of samples, incorporating appropriate sampling methodologies, specifying proper sample collection techniques and decontamination procedures, selecting appropriate laboratory methods to prepare and analyze samples, and establishing proper field and laboratory QA/QC procedures.

4.2.4 Completeness

Completeness is the amount of valid data obtained compared to the amount that was expected under ideal conditions. The number of valid results divided by the number of possible results expressed as a percentage defines the completeness of the data set. The objective for completeness is to recover at least 90 percent of the planned data to support field efforts. The formula for calculation of completeness is presented as follows:

$$\%\text{Completeness} = 100\% \times \frac{\text{number of valid results}}{\text{number of expected results}}$$

4.2.5 Comparability

Comparability is an expression of confidence with which one data set can be compared to another. The objective of comparability is to ensure that data developed during the investigation are comparable to Site knowledge and adequately address applicable criteria or standards established by the USEPA and the California Department of Health Services (CDHS). This QAPP addresses comparability by specifying laboratory methods that are consistent with the current standards of practice as approved by the USEPA and the CDHS. Field methods are discussed in the sampling and analysis plan.

5. QUALITY CONTROL ELEMENTS

This section presents QC requirements relevant to analysis of environmental samples that will be followed during all project analytical activities. The purpose of the QC program is to produce data of known quality that satisfy the project objectives and meet or exceed the requirements of the standard methods of

analysis. This program provides a mechanism for ongoing control and evaluation of data quality measurements through the use of the QC procedures, materials, and samples.

5.1 Quality Control Procedures

The chemical data to be collected for this effort will be used to determine that the extent of contamination is properly evaluated. As such, it is critical that the chemical data be of the highest confidence and quality. Consequently, strict QA/QC procedures will be adhered to. These procedures include:

- Adherence to strict protocols for field sampling and decontamination procedures;
- Collection and laboratory analysis of appropriate field equipment and trip blanks to monitor for contamination of samples in the field or the laboratory;
- Collection and laboratory analysis of matrix spike, MSD, and field duplicate samples to evaluate precision and accuracy; and
- Attainment of completeness of goals.

5.1.1 Equipment Decontamination

Non-dedicated equipment must be decontaminated before and after each sample is collected. The equipment is to be washed in a non-phosphate detergent solution, rinsed in tap water, and rinsed in distilled water.

5.1.2 Standards

Standards used for calibration or to prepare samples are to be certified by the National Institute of Standards and Technology, the USEPA, or other equivalent source. The standards will be current. The expiration date will be established by the manufacturer, or based on chemical stability, the possibility of contamination, and environmental and storage conditions. Standards must be labeled with expiration dates, and will reference primary standard sources if applicable. Expired standards must be discarded.

5.1.3 Supplies

All supplies must be inspected prior to their use in the field or laboratory. The descriptions for sample collection and analysis contained in the methods will be used as a guideline for establishing the acceptance criteria for supplies. A current inventory and appropriate storage system for these materials will ensure their integrity prior to use. Efficiency and purity of supplies will be monitored through the use of standards and blank samples.

5.1.4 Holding Time Compliance

Sample preparation and analysis must be completed within the required method holding times (Table 1). Holding time begins at the time of sample collection. If holding times are exceeded, and the analyses are performed, the associated results will be qualified as described in the applicable validation procedure. The following definitions of extraction and analysis compliance are to be used to assess holding times:

- Preparation or extraction completion – completion of the sample preparation process as described in the applicable method, prior to any necessary extract cleanup
- Analysis completion – completion of all analytical runs, including dilutions, second-column confirmations, and any required re-analysis

5.1.5 Preventive Maintenance

The LAUSD contractor Field Manager is responsible for documenting the maintenance of all field equipment prescribed in the manufacturer's specifications. Scheduled maintenance is to be performed by

trained personnel only. The analytical laboratory is responsible for all analytical equipment calibration and maintenance as described in their laboratory QA/QC plan. Subcontractors are responsible for maintenance of all equipment needed to carry out subcontracted duties. Backup instrumentation and equipment will be available locally and shipped to the Site as needed.

5.2 Field QC Samples

The types of field QC samples that will be collected during confirmation sampling for the remedial action and their purpose in relation to the DQOs are discussed in the following sections.

5.2.1 Field Duplicate Samples

Field duplicate samples will be collected and analyzed to evaluate sampling and analytical precision. Field duplicates are collected and analyzed in the same manner as the primary samples. Agreement between duplicate sample results will indicate good sampling and analytical precision. Field duplicates will be collected at a frequency of 10 percent of the primary soil samples collected. The duplicate sample will be subject to the same laboratory analyses performed on the associated primary sample.

5.2.2 Field Equipment Blanks

A field equipment blank is a sample that is prepared in the field by pouring de-ionized water into cleaned sampling equipment. The water is then collected and analyzed as a sample. The field equipment blanks give an indication of contamination from field procedures (e.g., improperly cleaned sampling equipment, cross-contamination). Field equipment blanks will be collected at a frequency of one per day. The field equipment blanks will be subject to the same analyses requested for the associated primary samples collected.

5.3 Laboratory QC Samples

Laboratory QC samples are used to ensure that conducted analyses are within QC limits and document the quality of analytical results. The types of QC samples the laboratory will employ depend on the particular analytical methodology used to analyze the samples. Each analytical method has a required QC procedure that must meet laboratory-developed acceptance limits in order for the data to be considered valid. In addition, as part of the laboratory's accreditation program, performance evaluation samples and method detection limit studies are conducted to evaluate the laboratory's capability of performing the method accurately and precisely. The primary types of laboratory QC samples are discussed in the following sections.

5.3.1 Laboratory Method Blanks

A laboratory method blank is prepared and analyzed by the laboratory in exactly the same manner as project samples in the analytical batch. Analysis of the method blank indicates potential sources of contamination from laboratory procedures (e.g., contaminated reagents, improperly cleaned laboratory equipment, or persistent contamination due to presence of certain compounds in the ambient laboratory air). A method blank is included with the analysis of every analytical batch or as stated in the method, whichever is more frequent.

5.3.2 Laboratory Control Samples

Laboratory control samples are analyzed by the analytical laboratory to evaluate the efficiency of the extraction and analysis procedures, and are necessary to verify the accuracy and precision of the extraction and analysis. The laboratory control sample is prepared by the addition of known quantities of target compounds to a blank matrix. The laboratory control sample is extracted and analyzed in the same manner as project samples in the analytical batch. The results of the analysis are compared with the known additions, and a laboratory control samples recovery is calculated to provide an evaluation of the

accuracy of the extraction and analysis procedures. Laboratory control sample recoveries are required to check that they are within laboratory's determined acceptance ranges. The acceptable ranges vary with both sample matrix and analytical method. Laboratory control sample and laboratory control sample duplicates will be analyzed by the laboratory with each sample batch at a frequency of at least one per batch of 20 samples. Analysis of laboratory control samples may be performed in duplicate in order to evaluate the precision of the procedures as well as the accuracy. Precision objectives (represented by agreement between laboratory control sample and laboratory control sample duplicate recoveries) and accuracy objectives (represented by laboratory control sample recovery results) are based on statistically generated limits established annually by the analytical laboratory. If a bias is determined, the associated data will be qualified and the direction of the bias indicated in the data validation report.

5.3.3 Matrix Spike Samples

Matrix spike analyses are performed by the analytical laboratory to evaluate the efficiency of the sample extraction and analysis procedures, and are necessary because matrix interference (that is, interference from the sample matrix, water or soil) may have a widely varying impact on the accuracy and precision of the extraction analysis. The matrix spike is prepared by the addition of known quantities of target compounds to a project-specific sample. The matrix spike sample is extracted and analyzed in the same manner as project samples in the analytical batch. The results of the analysis are compared with the known additions and a matrix spike recovery is calculated to provide an evaluation of accuracy of the extraction and analysis procedures. Matrix spike recoveries are reviewed to check that they are within the laboratory's statistically determined acceptance ranges. However, the acceptance ranges vary widely with both sample matrix and analytical method. Matrix spikes and matrix spike duplicates will be analyzed by the laboratory at a frequency of at least one per batch of 20 samples or less. Typically, matrix spike analyses are performed in duplicate in order to evaluate the precision of the procedures as well as the accuracy. Precision objectives (represented by agreement between matrix spike and matrix spike duplicate recoveries) and accuracy objectives (represented by matrix spike recovery results) are based on statistically generated limits established annually by the analytical laboratory. It is important to note that these objectives are to be viewed as goals, not as criteria. If matrix bias is suspected, the associated data will be qualified and the direction of the bias indicated in the data validation report.

6. SAMPLING PROCEDURES

The defensibility of data depends on the use of well defined, accepted sampling procedures. This section describes the sampling and handling procedures that will be followed for each sampling event.

6.1 Field Procedures

Collection of environmental samples of high integrity is important to the quality of chemical data to be generated. To this end, strict field procedures have been developed as general descriptions of field methods that will be employed at various locations during phases of the field investigation. These procedures are contained in the sampling and analysis plan.

6.2 Sample Containers, Preservation and Holding Times

Table 1 lists the required sample containers, preservatives and recommended maximum holding times for samples. Sample containers will be provided by the laboratory.

6.3 Sample Handling and Storage

In the field, each sampler container will be marked with the sampling location number, date and time of sample collection. All sample containers will be wiped with clean paper towels, securely packed in zipper-sealed plastic bags, and placed into coolers that are properly chilled at less than 6°C.

Upon receipt of the samples, the laboratory will immediately notify the Field Manager if conditions or problems are identified that require immediate resolution. Such conditions include container breakage, missing or improper chain-of-custody forms, exceeded holding times, missing or illegible sample labeling, or temperature excursions.

6.4 Sample Custody

For each sample that is submitted to the laboratory for analysis, an entry will be made on a chain-of-custody form supplied by the laboratory. The information to be recorded includes the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives and the sampler's name. The chain-of-custody form will also specify the laboratory turnaround time that will be appropriate to meet the USEPA holding times for the requested methods.

Sampling team members will maintain custody of the samples until they are relinquished to laboratory personnel or a professional courier service. The chain-of-custody form will accompany the samples from the time of collection until received by the laboratory. Each party in possession of the samples (except the professional courier service) will sign the chain-of-custody form signifying receipt. The chain-of-custody form will be placed in a plastic bag and shipped with samples inside the cooler. After the samples, ice and chain-of-custody forms are packed in the cooler, it will be appropriately sealed before being relinquished to the courier. A copy of the original completed form will be provided by the laboratory along with the report of results. Upon receipt, the laboratory will inspect the condition of the sample containers and report the information on the chain-of-custody or similar form.

7. ANALYTICAL PROCEDURES

The analytical methods used for this project are primarily USEPA-approved methods and are listed in Table 1. Specific analytical method procedures are detailed in the laboratory QA/QC Plan of the selected laboratory, which may be reviewed by QA staff during laboratory audits to ensure that project specifications are met. Laboratory audits are discussed in Section 9.2.

7.1 Internal Standards

Internal standards are measured amounts of method-specified compounds added after preparation, or extraction, of a sample. Internal standards are added to samples, controls, and blanks in accordance with method requirements to identify column injection losses, purging losses, or viscosity effects.

Acceptance limits for internal standard recoveries are set forth in the applicable method. If the internal standard recovery falls outside acceptance criteria, the instrument will be checked for malfunction, and re-analysis of the sample will be performed after any problems are resolved.

7.2 Retention Time Windows

Retention time windows will be established as described in SW-846 Method 8000A for applicable analyses of organic compounds if necessary. Retention time windows are used for qualitative identification of analytes and are calculated based on multiple, replicated analyses of respective standards.

Retention times will be checked daily. Acceptance criteria for retention time windows are established in the referenced method. If the retention time falls outside the respective window, action will be taken to correct the problem. The instrument must be re-calibrated after any retention time window failure, and the affected samples must be re-analyzed.

7.3 Method Detection Limits

The method detection limit (MDL) is the minimum concentration of an analyte, or compound, that can be measured and reported with 99 percent confidence that the concentration is greater than zero. MDLs are established for each method, matrix and analyte, and for each instrument used to analyze project samples. MDLs are derived using the procedures described in 40 CFR §136, Appendix B (USEPA, 1990a). The USEPA requires that MDLs be established annually. MDLs must be below applicable reporting limits for each target analyte.

7.4 Instrument Calibration

Analytical instruments will be calibrated in accordance with the procedures specified in the applicable methods. All analytes that are reported must be present in the initial and continuing calibrations, and these calibrations must meet the acceptance criteria specified in the reference method. Records of standard preparation and instrument calibration will be maintained. Records must unambiguously trace the preparation of standards and their use in calibration and quantification of sample results. Calibration records will be traceable to standards materials as described in Section 5.1.2.

At the onset of analysis, instrument calibrations will be checked using all of the analytes of interest. At a minimum, calibration criteria will satisfy method requirements. Analyte concentrations can be determined with either calibration curves or response factors, as defined in the method. Guidance provided in SW-846 should be considered to determine appropriate evaluation procedures.

8. DATA REPORTING

This section presents reporting requirements relevant to the data produced during all project analytical activities.

8.1 Field Data

Data measured by field instruments will be recorded in field logbooks, and/or on required field forms. Units of measure for field analyses are identified on the field forms. The field data will be reviewed by the PM or Field Manager to evaluate completeness of the field records and appropriateness of the field methods employed. All field records will be retained in the project files.

8.2 Laboratory Data

Analytical data will contain the necessary sample results and quality control data to evaluate the DQOs defined for the project. At a minimum the laboratory reports will include the following data and summary forms:

- Narrative, cross-reference, chain-of-custody and method references;
- Analytical results;
- Calibration summary upon request;
- Blank results;
- Laboratory control sample recoveries;
- Duplicate sample results or duplicate spike recoveries;
- Sample spike recoveries;
- Instrument tuning summary upon request;
- Associated raw data upon request; and

- Magnetic tape or equivalent upon request.

Data validation will be performed on all laboratory data in accordance with the guidance, *Data Validation Memorandum, Summary of Level II Data Validation* (DTSC, May 2006), as published on the DTSC website, <http://www.dtsc.ca.gov/Schools/upload/Data_Validation.pdf>.

The laboratory data will be reviewed for compliance with the applicable method and the quality of the data reported. The areas of data validation are summarized as follows.

- Data completeness
- Holding times
- Blanks
- Laboratory control samples
- Matrix spike/matrix spike duplicates
- Field quality control samples

The application of data validation criteria is a function of project-specific DQOs. The QA Manager will determine whether the data quality objectives for the analytical data have been met. Results of the data validation review will be documented and summarized in a data validation memorandum, which will be included as an appendix to the remedial action completion report.

8.3 Project Data Management

Data management is the process of organizing, maintaining and applying a variety of data to provide a useful and coherent view of the Site conditions. Data collected for the project implementation include sample collection data, field measurement data, onsite laboratory analytical data and offsite laboratory analytical data. The database used for the confirmation sampling and analytical results is Microsoft Excel.

8.4 Project Data Flow

Data received by the Data Manager from the contracted laboratory are either hard copy or electronic format. Analytical results received in hardcopy form are manually entered into a “temporary file” utilizing a proprietary data program. Analytical results received from the laboratory as an electronic file are converted to the project’s standard database structure. Printouts are created from all sources of analytical data and verified for accuracy using the hard copy report. Any errors noted by the reviewer and communicated to the Data Manager for correction. Upon completion of the data verification and data validation processes, the analytical data are appended to the main, composite database for storage and eventual reporting. Data qualifiers assigned to particular analytical results upon completion of the data validation are appended to the results in the database utilizing a proprietary validation program. Proprietary custom report programs are used to generate tabular data presentations and statistical reports. Prior to distribution to project personnel, these database outputs are re-verified for accuracy and consistency against the original data. Upon final approval, the final analytical tables and statistical reports are distributed to project personnel for data evaluation and project decisions.

Project reports will be permanently retained by the LAUSD Project Manager.

8.5 Procedures for Data Validation

Guidance for performing data validation for the types of analyses to be utilized for this investigation is provided in the *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, 1996b) and *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, 2002). Data validation will be documented in a manner consistent with these functional

guidelines. The results of the data validation will be included in the data validation memorandum, which will be maintained in the project files.

8.6 Data Qualifiers

The data validation procedures were designed to review each data set and identify biases inherent to the data and determine its usefulness. Data validation flags are applied to those sample results that fall outside of specified tolerance limits and therefore did not meet the program's QA objectives as described in Section 4.2. Data validation flags to be used for this project are defined in the *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, 1996b) and *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, 2002). Data validation flags will indicate if results are considered anomalous, estimated or rejected. Only rejected data are considered unusable for decision-making purposes; however, other qualified data may require further verification.

9. PERFORMANCE AND SYSTEM AUDITS

Audit programs are established and directed by the LAUSD contractor to ensure that field and laboratory activities are performed in compliance with project controlling documents. This section describes responsibilities, requirements and methods for scheduling, conducting and documenting audits of field and laboratory activities.

9.1 Field Audits

Field audits focus on appropriateness of personnel assignments and expertise, availability of field equipment, adherence to project controlling documents for sample collection and identification, sample handling and transport, use of QA samples, chain-of-custody procedures, equipment decontamination and documentation. Field audits are not required but may be performed in the event significant discrepancies are identified that warrant evaluation of field practices.

9.2 Laboratory Audits

Laboratory audits include reviews of sample handling procedures, internal sample tracking, standard operating procedures, analytical data documentation, QA/QC protocols, and data reporting. Any selected laboratory will be licensed by the State of California as a certified testing laboratory and will participate in a state-approved Performance Evaluation Program, as appropriate, for hazardous waste, wastewater and drinking water analyses. If no previous audit has been conducted, a scheduled audit will be conducted by the QA staff during the course of this project to ensure the integrity of sample handling and processing by the laboratory.

9.3 Data Audits

Data audits will be performed on analytical results received from the laboratories if issues arise that question the data. These audits will be accomplished through the process of data validation as described in Section 8.5, and involve a more detailed review of laboratory analytical records. Data audits require the laboratory to submit complete raw data files to the LAUSD contractor for validation and verification. DPW contractor chemists will perform a review of the data consistent with the level of effort described in the *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, 1996b) and *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, 2002). This level of validation consists of a detailed review of sample data, including verification of data calculations for calibration and QC samples to assess whether the data are consistent with method requirements. Upon request, the laboratory will make available all supporting documentation in a timely fashion.

9.4 Scheduling

Audits will be scheduled such that field and laboratory activities are adequately monitored, or in the event discrepancies are identified. The overall frequency of audits conducted for these activities will be based on the importance and duration of work, as well as significant changes in project scope or personnel.

9.5 Reports to Management and Responsibilities

Upon completion of any audit, the auditor will submit to the PM and the Field Manager a report or memorandum describing any problems or deficiencies identified during the audit. It is the responsibility of the PM to determine whether the deviations will result in any adverse effect on the project conclusions. If it is determined that corrective action is necessary, procedures outlined in Section 9.6 will be followed.

9.6 Corrective Action

Corrective actions will be initiated whenever data quality indicators suggest that DQOs have not been met. Corrective actions will begin with identifying the source of the problem. Potential problem sources include failure to adhere to method procedures, improper data reduction, equipment malfunctions or systemic contamination. The first level of responsibility for identifying the problems and initiating corrective action lies with the analyst/field personnel. The second level of responsibility lies with any person reviewing the data. Corrective actions may include more intensive staff training, equipment repair followed by a more intensive preventive maintenance program, or removal of the source of systemic contamination. Once resolved, the corrective action procedure will be fully documented, and if DQOs were not met, the samples in question must be re-collected and/or re-analyzed utilizing a properly functioning system.

10. REFERENCES

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4. DTSC, *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers* revised June 9, 2006.
5. Office of Environmental Health Hazard Assessment (OEHHA), *Human-Exposure-Based Screening Numbers Developed to Aid Estimation of Cleanup Costs for Contaminated Soil,* Revision January, 2005.
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9. USEPA, *Draft Region 9 Laboratory Documentation Requirements for Data Validation Document Control,* No. 9QA-07-97, U.S. Environmental Protection Agency, Region 9, San Francisco, CA, 1997.

10. USEPA, *EPA Guidance for Quality Assurance Project Plans,* EPA/240/B-1/003 (EPA QA/R-5), Washington, DC, 2002.

11. USEPA, *Guidance for the Data Quality Objectives Process, EPA QA/G-4*, Office of Research and Development, U.S. Environmental Protection Agency. Washington, DC, 1994.

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Tables

Table 1 – Sample Containers, Preservatives and Holding Times, Laboratory Reporting Limits

Soil Analyses					
Analyte	**Method**	**Container**	**Preservative**	**Holding Time**	**Reporting Limits**
Arsenic	EPA 6020	glass jar or acetate/brass/ stainless steel sleeve	4ºC +/- 2ºC, ice	180 days	0.3 mg/kg
Lead	EPA 6010B	glass jar or acetate/brass/ stainless steel sleeve	4ºC +/- 2ºC, ice	180 days	0.5 mg/kg

Notes: mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

Figures

LEGEND:

- Approximate Sample Location
- Approximate Sample Locations with lead and arsenic concentrations in exceedance of acceptable screening levels

NOTE:
All location are approximate.

Figure created in color. Significant information may be lost if copied in black and white.

FIGURE 2: Sample Location Map

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: July 2016

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-17-6714

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com

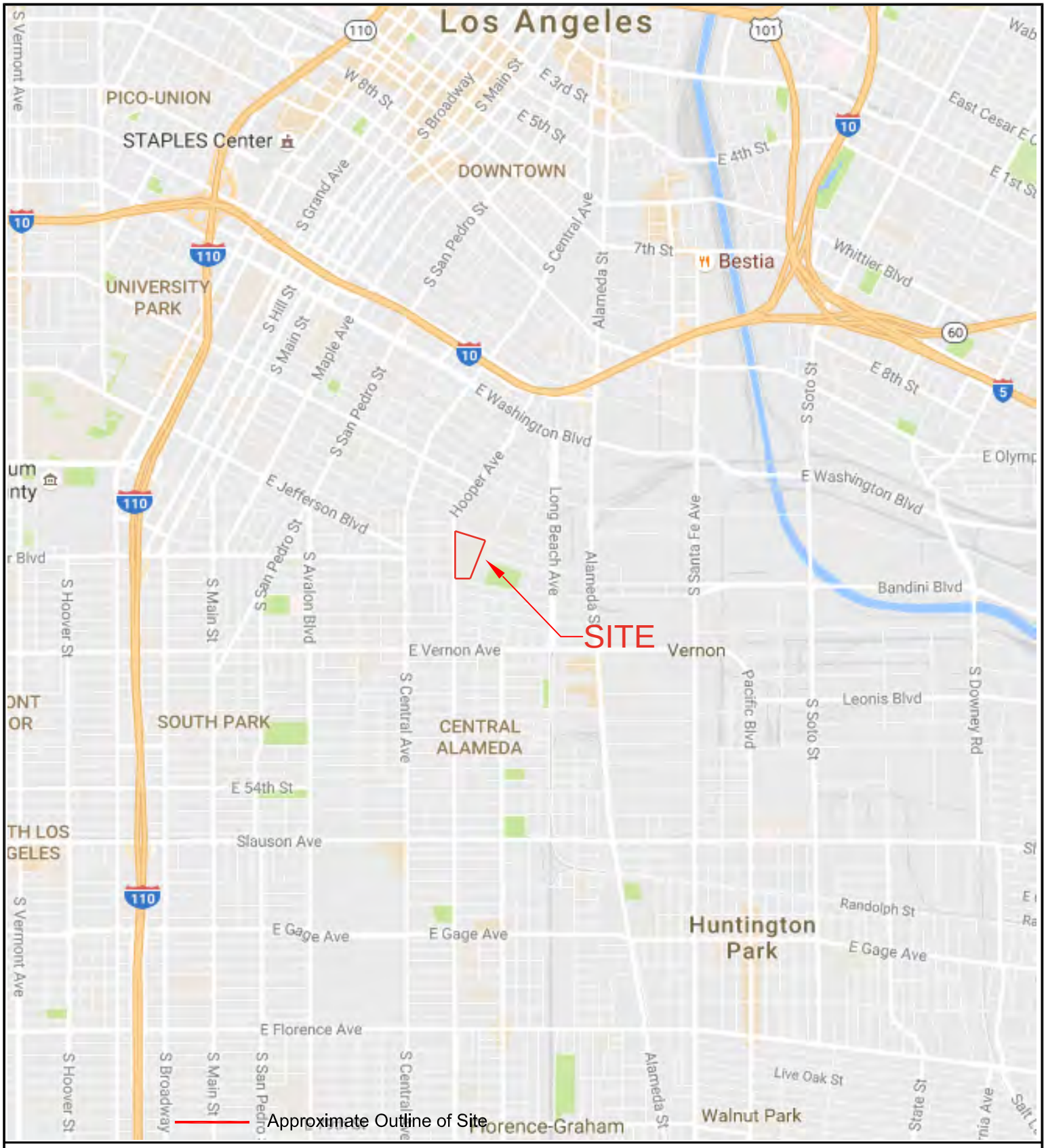

FIGURE 1: SITE LOCATION MAP

CLIENT: Los Angeles Unified School District	SITE LOCATION: Thomas Jefferson High School 1319 East 41st Street, Los Angeles, California
PROJECT #: LAUS-16-6714	

ALTA ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: BP	APPROVED: EF	NORTH
SCALE: None	DATE: 8/17/2016	

APPENDIX D

Transportation Plan

TRANSPORTATION PLAN
For Off-Site Disposal of Soils

Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California 90011

Prepared for

Los Angeles Unified School District

LAUS-17-6714
May 10, 2017

Alta Environmental
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807 www.altaenviron.com

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Figures

Figure 1 Site Location Map
Figure 2 Soil Sample Location Map
Figure 3 Transportation Route Map

PROJECT SUMMARY

Project Site (Site):	Thomas Jefferson High School
Site Address:	1319 E. 41st Street
Project Proponent (PP):	Los Angeles Unified School District (LAUSD)
Removal Action (RA) Contractor:	TBD (to be determined).
Chemicals of Concerns (COCs):	Lead and Arsenic
Site-Specific Cleanup Goals (CGs):	Lead: 80 milligrams per kilogram (mg/kg)
	Arsenic: 12 mg/kg
Estimated Volume of Soil Removal:	224 cubic yards
Distance to a Sensitive Environment:	No sensitive environments are located within the vicinity of the Site.

1 INTRODUCTION

Thomas Jefferson High School (the "Site") is an active high school campus made up of five adjacent parcels (Los Angeles County Tax Assessor Parcel Numbers: 5114-036-900, -901, -902, -903, -904) that total approximately 18.5 acres. The Site is bound by residential homes to the north, Compton Avenue to the east, East 41st Street to the south, and Hooper Avenue to the west (see Figure 1).

The Site is currently occupied by a single campus used by three schools: Thomas Jefferson High School, which has occupied the site since 1915/1916; and Student Empowerment Academy Charter and Nava College and Preparatory Academy, which have occupied the property since 2006 and 2014, respectively. The on-site buildings include a main academic and office building, auditorium, science building, cafeteria, two gymnasiums, a boiler house, arts and shops buildings, and former industrial arts buildings, as well as modular classroom buildings, storage sheds, greenhouse, covered structures, and ancillary structures (athletic, ROTC, parent's center, etc.). The northwest quarter of the subject property is developed with athletic tracks and fields and associated structures, tennis courts, and a garden area. The remainder of the property is developed with lawns and paved courtyards, assembly areas, and walkways with associated landscaping

A Preliminary Environmental Assessment Equivalent (PEA-E) for the Thomas Jefferson High School comprehensive modernization area in the northern portion of the Site was conducted by Alta Environmental (Alta) on behalf of the Los Angeles Unified School District Office of Environmental Health and Safety (LAUSD-OEHS). Soil samples were collected throughout the Site at various depths and analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), polychlorinated byphenols (PCBs), organochlorine pesticides (OCPs), arsenic, lead, and Title 22 metals. While several analytes were found at levels in excess of laboratory detection limits, only lead and arsenic were identified in soil samples in excess of residential screening levels. Alta recommended that a Removal Action Workplan (RAW) be developed for the site to address shallow soils impacted with lead, and/or arsenic in the areas identified (see Figure 2).

This document outlines the plan for transporting excavated soil to an offsite disposal facility. The purpose of this Transportation Plan is to ensure that soils excavated from the site are properly disposed of at an

off-site disposal facility, and to minimize the risks associated with impacted soils. Approximately 25-50 trucks per day would be required for soil hauling. Additional vehicle trips may be generated by project vendors and worker commute.

2 WASTE CHARACTERIZATION AND QUANTITY

2.1 Waste Profile

Excavated soils will be profiled for acceptance by the selected disposal facility. Approval from the disposal facility will be obtained before any excavation activities commence. Additional documentation will be provided to LAUSD pertaining to waste disposal profiles and waste disposal acceptance prior to any off-site shipments of waste.

2.2 Hazardous Waste Management

Resource Conservation and Recovery Act (RCRA) hazardous waste is regulated under both RCRA and the California Health and Safety Code (H&SC). RCRA regulatory levels for D-listed wastes, using the Toxicity Characteristic Leaching Procedure (TCLP), are listed under Title 22 of the *California Code of Regulations*, Section 66261.24(a)(1) (22 CCR 66261.24(a)(1)). Non-RCRA hazardous waste is regulated only under H&SC and 22 CCR. The Total Threshold Limit Concentration and Soluble Threshold Limit Concentration (STLC) values for certain chemicals are listed under 22 CCR 66261.24(a)(2).

Since some soil to be excavated as part of this RAW is classified as a hazardous waste, LAUSD has secured a U.S. Environmental Protection Agency (EPA) identification number for the Site (CAD28409019) from the California Department of Toxic Substances Control (DTSC) for proper hazardous waste management. Compliance with DTSC requirements of hazardous waste generation, temporary on-site storage, transportation, and disposal is required.

Limited soluble analysis was conducted during the PEA-E (Alta 2017) on selected samples from twenty-seven areas of concern. Fifteen of the twenty-seven samples were found to contain soluble concentrations of lead that would characterize the impacted soil as a California listed hazardous waste. None were found to be above federal RCRA hazardous waste limits.

2.3 Contaminated Soil Control

After the delineated areas of impacted soil have been excavated to the appropriate depths, confirmation soil samples will be collected from the bottom and sidewalls of the excavations. Confirmation sampling frequency and clean-up goals are discussed in the RAW.

2.3 Waste Quantity

- Estimated quantity of Non-hazardous waste: 224 cubic yards
- Estimated Number of Truckloads per Day: 25-50

3 SOIL LOADING OPERATIONS

Soil will be removed with excavators or other types of earth moving equipment, as necessary. As the COC-impacted soil is excavated from the Site, it may be temporarily stockpiled and stored onsite. The contractor will transport the COC-impacted soil when offsite transportation and disposal are available. The trucks awaiting loading will be staged within the boundaries of the site.

Shallow excavation in the COC-impacted areas will be backfilled. Soil management is discussed in Section 7.5 of the RAW.

3.1 Soil Segregation Operations

Excavated soils are classified as non-hazardous waste with a portion classified as California-hazardous waste. Segregation operations may be necessary to segregate clean from impacted soils.

The soil segregation will be based laboratory data collected in the field, visual, olfactory, PID or equivalent readings; and previous soil sampling data.

3.2 Truck Loading Operations

Haul vehicles shall only be loaded in designated areas. Haul trucks may be loaded utilizing a front-end loader, or similar contractor approved equipment, from temporary stockpiles. Whenever possible, haul vehicles shall be loaded in staging areas. Water spray or mist, as appropriate, will be applied during soil loading operations.

All vehicles will be decontaminated prior to leaving the work area. For track-out prevention and control, all trucks will be broom cleaned after loading. The dump truck or roll-off bin portion of the truck will then be covered with a tarp to prevent soil and/or dust from spilling out of the truck during transport to the disposal facility. Any waste accumulated during decontamination procedures will be containerized for appropriate disposal.

Prior to leaving the load area, each haul vehicle will be inspected to ensure that the payloads are adequately covered, the vehicles are cleaned of spilled soil, and the shipment is properly manifested.

3.3 Working Hours and Duration

In most cases, excavation, truck loading and unloading will be conducted between 7 AM to 5 PM daily for as many days necessary.

4 TRANSPORTATION CONTROL

4.1 Dust Control

Soil for offsite disposal will be transported in tarped end-dump trailers/trucks, drums, or roll-off bins to an approved land disposal facility. All waste hauler vehicles will be decontaminated prior to leaving the work area. Clean fill materials will be transported in tarped trailers/trucks to the Site.

4.2 Traffic Control

Prior to loading or unloading at the Site, all trucks will be staged on Site as much as possible to avoid impacts on the local streets. Careful coordination of trucks will be exercised to help avoid staging offsite and long wait times for trucks.

4.3 Site Access Control

Trucks to be loaded or unloaded at the Site will only access the Site through designated entry/access points. Waste hauling vehicles will not be allowed to cross soil removal or staging areas. If necessary, a flag person will be located at the entry way to assist the truck drivers to safely enter and depart the Site.

4.4 Onsite Traffic Flow

Traffic will be coordinated in such a manner that, at any given time, no more than ten (10) transportation trucks will be onsite to reduce truck traffic on surrounding surface streets and reduce dust generation during onsite transportation.

4.5 Speed Limit

While on the Site, all vehicles are required to maintain slow speeds, e.g., less than five miles per hour (5 mph), for safety purposes and for dust control measures. While on streets or freeways, all transporters will be directed to follow the speed limit requirements and use defensive driving techniques for traffic safety.

4.6 Transportation Routes

A proposed transportation route and alternate route for offsite shipment of impacted soil are included as Figure 3 of this Transportation Plan and will be updated as necessary.

4.7 Consultation with Local Transportation Department

A “haul route permit” may be required and obtained from the Los Angeles County Department of Public Works (LADPW) with a copy of the transportation route map at least 3 days prior to commencement of the proposed RA. The haul route permit is sufficient for the trucks hauling soils because the loaded weight will be less than 40 tons. Mobilization and demobilization of large earthmoving equipment may exceed this weight and would require additional permits (green and/or purple) from the state (and local transportation agencies). Heavier loads have higher permit fees and restrictions on time of travel.

4.8 Local Traffic Control

Transportation of impacted soils will be on arterial streets and/or freeways, approved for truck traffic, to minimize any potential impact on the local neighborhood. Moving along the proposed transportation route, all street intersections (except those marked on the transportation route map) are controlled by traffic lights or stop signs. For entry and exit from the school parking lot, a flag person of the RA contractor may be located to assist or direct traffic flow during heavy traffic hours. Therefore, the number of daily truckloads during implementation of the RAW is not expected to cause a disruption in local traffic.

4.9 Street Maintenance

If required, a “work notice” may be given to the street maintenance authority with a copy of the transportation route map at least three (3) days prior to initiation of the proposed RA. If necessary, streets will be cleaned of spilled soils and the final cleanup after completion of field activities, such as washing paved areas, will be conducted. The number of daily truckloads during implementation of the RAW is not expected to cause damage to surface streets.

5 OFFSITE LAND DISPOSAL FACILITIES

A non-RCRA hazardous waste is a California-only hazardous waste. Non-RCRA and RCRA hazardous wastes will be disposed of at a California Class 1 land disposal facility or an out of state landfill permitted to accept such wastes. The following waste management facilities have been selected for this project:

Clean Harbors Buttonwillow

2500 West Lokern Road
Buttonwillow, CA 93206
Phone: (661) 762-6200 or (310) 835-9998
Fax: (661) 761-7681

Alternatives:

U.S. Ecology Nevada, Inc.
Highway 95 – 12 miles South of Beatty, Nevada

Phone: 1 (800) 239-3943 or (775) 553-2203
Fax: (775) 553-2742

South Yuma County Landfill
19536 S. Ave #1E
Yuma, Arizona 85365
Phone: (928) 750-2003

Waste Management Northwest Regional Landfill
19401 W. Deer Valley Road
Surprise, Arizona 85387

Phone: (602) 437-3165

5.1 SHIPING DOCUMENTATION

Manifests, bill of lading and/or invoice from the selected hauler will be used to document and accompany each truck shipment. At a minimum, the shipping document will include the following information:

- Name and Address of Waste Generator
- Name and Address of Waste Transporter
- Name and Address of Disposal Facility
- Description of the Waste
- Quantity of Waste Shipped

Copies will be maintained of the shipping document for each truckload of excavated soils or fill materials and these documents will be submitted to the LAUSD in the final RA report.

6 RECORDKEEPING

Notes will be maintained during the removal activities. The notes will serve to document observations, personnel onsite, truck arrival and departure times, and other vital project information.

7 HEALTH AND SAFETY

A site-specific health and safety plan (HASP) will be prepared by the awarded RA contractor and included in the RAW. Everyone working at the Site will be required to be familiar with the HASP.

8 IMPORT FILL MATERIAL

_____ No fill materials are required at the Site during the implementation of the RAW.

__x__ Fill materials will be secured

9 TRANSPORTER REQUIREMENTS

Qualified transporters will be hired for hauling the excavated soil away or hauling fill materials to the Site.

9.1 License and Insurance

The selected haulers will be fully licensed and insured to transport the excavated soils or fill materials. If any are encountered, hazardous wastes must be shipped by a registered hazardous waste hauler.

FIGURES

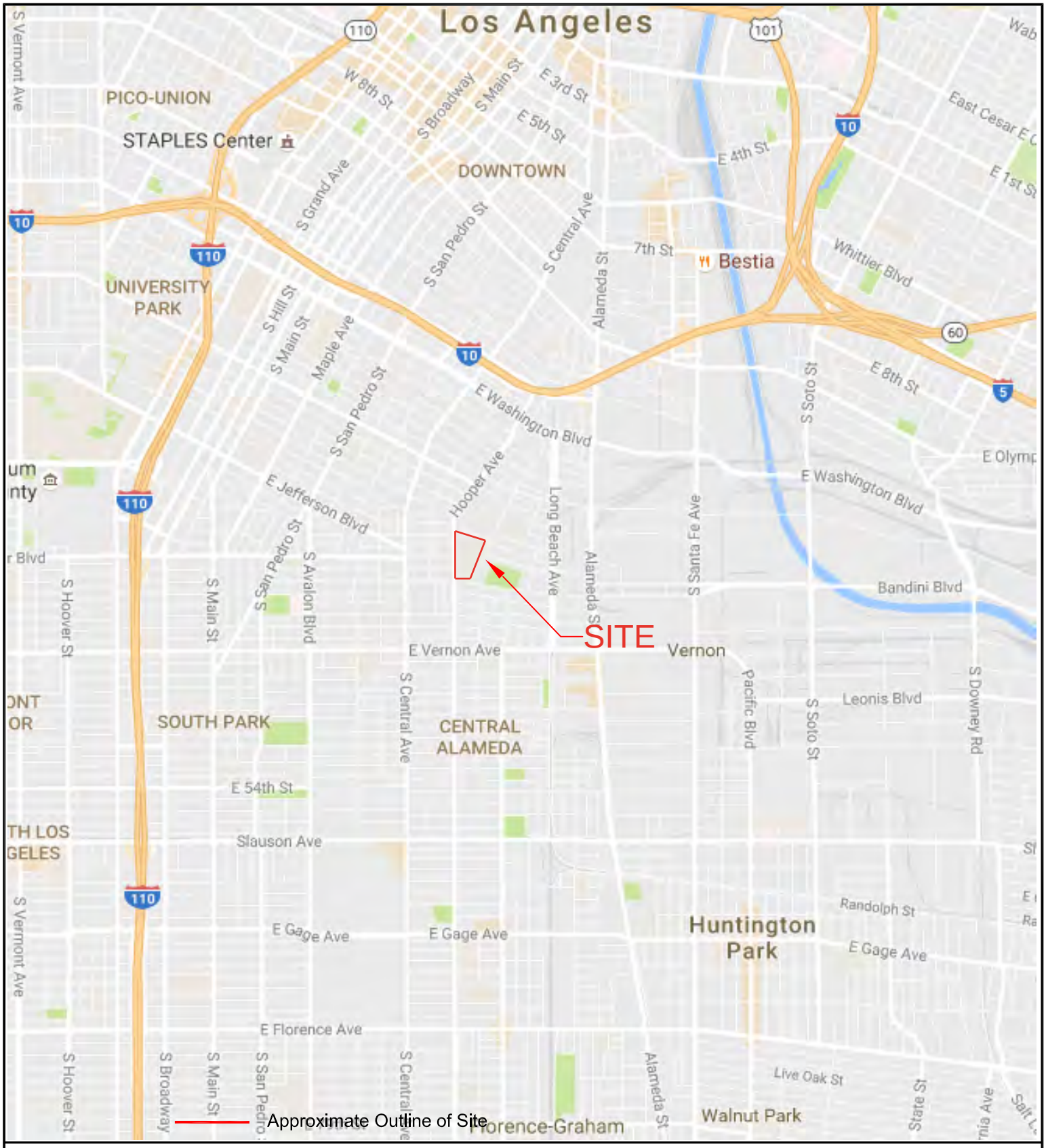


FIGURE 1: SITE LOCATION MAP

CLIENT: Los Angeles Unified School District	SITE LOCATION: Thomas Jefferson High School 1319 East 41st Street, Los Angeles, California
PROJECT #: LAUS-16-6714	

ALTA ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: BP	APPROVED: EF	NORTH
SCALE: None	DATE: 8/17/2016	

LEGEND:

- Approximate Sample Location
- Approximate Sample Locations with lead and arsenic concentrations in exceedance of acceptable screening levels

NOTE:
All location are approximate.

Figure created in color. Significant information may be lost if copied in black and white.

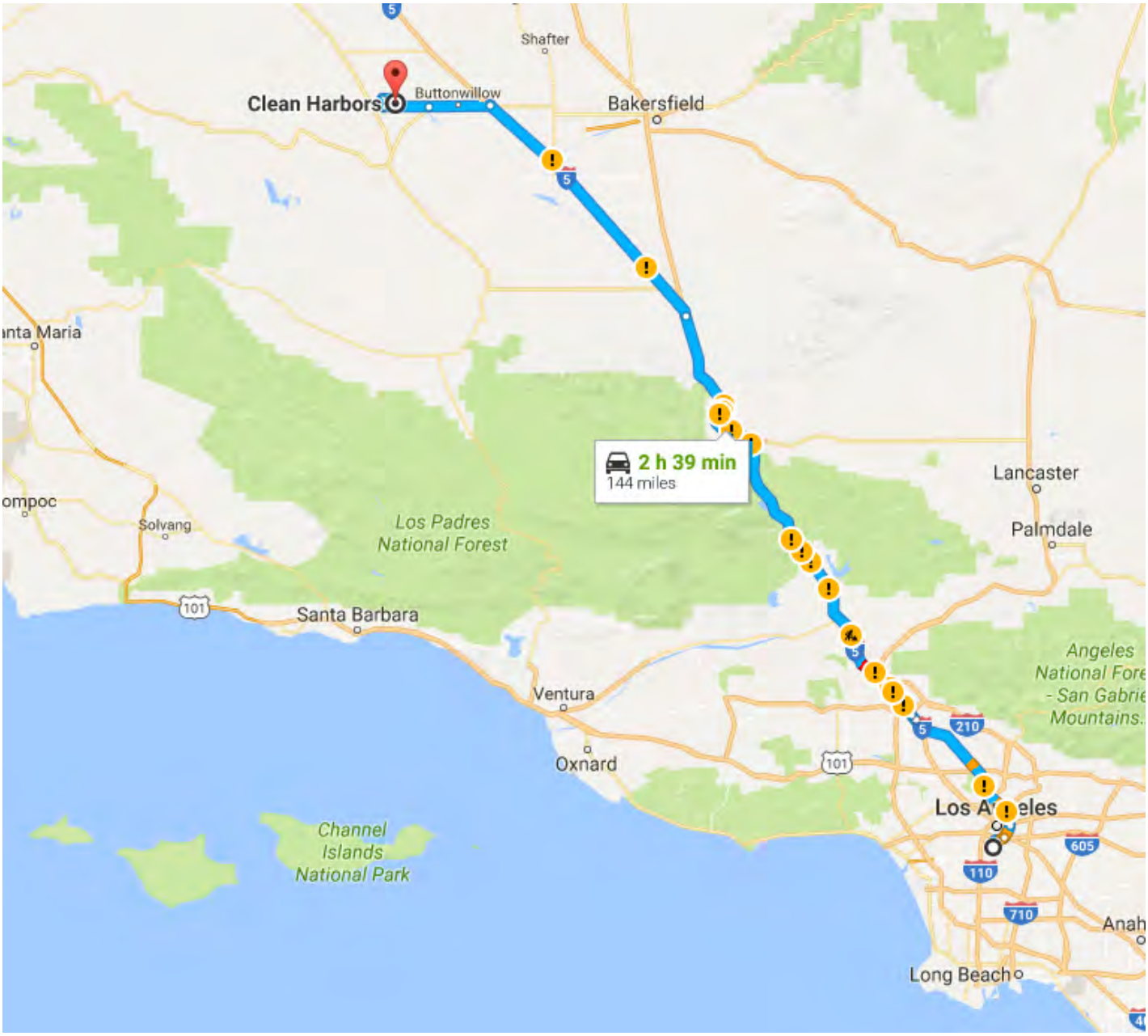
FIGURE 2: Sample Location Map

CLIENT. LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN: BP	APPROVED: EF
	SCALE: No scale	DATE: July 2016

SITE:
Thomas Jefferson High School
1319 East 41st Street
Los Angeles, California

PROJ. NO.: LAUS-17-6714

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com



1. Head west on E. 41st St. toward S. Hooper Ave	243 ft
2. Turn right onto S. Hooper Ave	0.5 mi
3. Turn left onto E. 21st St	0.5 mi
4. Turn right onto E. 17th St	0.3 mi
5. Take the ramp on the left onto I-10 E	0.2 mi
6. Merge onto I-5 North	3 mi
7. Continue on I-5 North	122.6 mi
8. Take exit 257 toward CA-58/Buttonwillow/McKitrick	0.2 mi
9. Take CA-58 W and Lorken Rd. to Delfern Rd.	17.0 mi
Arrive at Clean Harbors Buttonwillow, 2500 West Lorken Road, Buttonwillow, CA 93206	

FIGURE 3 : TRANSPORTATION ROUTE

CLIENT:
Los Angeles Unified School District

PROJECT #: LAUS-17-6714

SITE LOCATION: Thomas Jefferson High School
1319 E. 41st Street
Los Angeles, California

ALTA ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: BP

APPROVED: EF

SCALE: None

DATE: 4/24/17

NORTH

Appendix H

Noise and Vibration Technical Report

ESA

Draft

LOS ANGELES UNIFIED SCHOOL DISTRICT THOMAS JEFFERSON HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

Noise and Vibration Technical Report

Prepared for
Los Angeles Unified School District
Office of Environmental Health and Safety
3333 South Beaudry Avenue 21st Floor
Los Angeles, CA 90017

May 2018

ESA

Draft

LOS ANGELES UNIFIED SCHOOL DISTRICT THOMAS JEFFERSON HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

Noise and Vibration Technical Report

Prepared for
Los Angeles Unified School District
Office of Environmental Health and Safety
3333 South Beaudry Avenue 21st Floor
Los Angeles, CA 90017

May 2018

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Los Angeles	Sacramento	Tampa
Miami	San Diego	

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EXECUTIVE SUMMARY

Los Angeles Unified School District (LAUSD) proposes a Comprehensive Modernization to Thomas Jefferson High School (Project) in the city of Los Angeles, California. The Comprehensive Modernization Project includes various renovations, modernizations, and new construction at Thomas Jefferson High School (Jefferson HS); including the demolition and removal of existing buildings totaling approximately 116,000 square feet (sf), construction of new facilities totaling approximately 110,000 sf, and modernization of approximately 53,000 sf of buildings.

Thomas Jefferson High School is located upon approximately 18.9 acres in a residential area, approximately two miles south of downtown Los Angeles at 1319 East 41st Street within the southeast portion of the City of Los Angeles (Project Site). The campus comprises an entire block and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and residences and East 33rd Street to the north. The Assessor's Parcel Number (APN) for the Project Site is 5114-03-6900.

The purpose of this Noise and Vibration Technical Report is to assess and discuss the impacts of potential noise and vibration impacts that may occur with the implementation of the proposed Project.

The analysis describes the existing noise environment in the Project area, estimates future noise and vibration levels at surrounding land uses resulting from construction and operation of the Project, and identifies the potential for significant impacts. An evaluation of the Project's contribution to potential cumulative noise impacts is also provided. Noise worksheets and technical data used in this analysis are provided in the Appendices.

The report summarizes the potential for the Project to conflict with applicable noise and vibration regulations, standards, and thresholds. The findings of the analyses are as follows:

- The stationary noise sources would result in a substantial permanent increase in ambient noise levels in the Project vicinity. The Project's noise impacts on existing development from operational onsite stationary noise sources would be potentially significant. However, with implementation of the mitigation measures, operational noise impacts would be less than significant. Project operational traffic would increase noise levels at offsite noise-sensitive uses in the Project area. Increases in ambient noise levels due to operational traffic would not exceed the established thresholds. Operational traffic-related noise impacts would be less than significant.

- Construction activities would result in sporadic, and temporary noise increases adjacent to the Project area, which would exceed established thresholds. With implementation of the technically feasible mitigation measures, construction noise would be reduced but would still potentially exceed the thresholds and impacts would be significant and unavoidable. Construction vibration impacts would be less than significant with implementation of mitigation measures.

- Project operation would not generate excessive vibration levels at nearby sensitive receptor locations. Thus, long-term vibration impacts would be less than significant.

- Noise associated with cumulative construction activities would be reduced to the degree reasonably and technically feasible through proposed mitigation measures for each individual project and compliance with locally adopted and enforced noise ordinances. However, even with implementation of proposed design features and mitigation measures, if nearby cumulative projects were constructed concurrently with the Project, significant and unavoidable cumulative construction noise impacts could result at the nearby noise sensitive receptors.

SECTION 1
Introduction

This Noise and Vibration Technical Report was prepared by ESA to support an Initial Study and Mitigated Negative Declaration (IS/MND) for the proposed Thomas Jefferson High School Comprehensive Modernization Project (proposed Project) located in the City of Los Angeles.

Ongoing master planning activities and facility site assessments conducted for Los Angeles Unified School District (LAUSD or District) facilities over the last several years have identified school sites throughout the District that exhibit critical physical conditions. The School Upgrade Program (SUP) implemented by LAUSD outlines a series of capital improvements intended to rehabilitate and modernize these schools so they are safe, healthy, and functional places to learn.

LAUSD prepared a Program Environmental Impact Report (SCH No. 2013111046) to evaluate the direct and indirect environmental effects of the SUP program.[1] The SUP Program EIR (Program EIR) was certified by the LAUSD Board on November 10, 2015.[2] As provided in Section 15168 of the State California Environmental Quality Act (CEQA) Guidelines, a Program EIR may be prepared on a series of actions that can be characterized as one large project. Use of a Program EIR provides LAUSD, as lead agency, with the opportunity to consider broad policy alternatives and program-wide mitigation measures, and provides LAUSD with greater flexibility to address project-specific and cumulative environmental impacts on a comprehensive basis.[3]

Subsequent activities under the SUP are evaluated to determine whether an additional CEQA document needs to be prepared. However, if the Program EIR addresses the program's effects as specifically and comprehensively as possible, many subsequent activities could be found to be within the Program EIR scope, and additional environmental documents may not be required.[4] When a Program EIR is relied on for a subsequent activity, the lead agency must incorporate any feasible mitigation measures and alternatives developed in the Program EIR into the subsequent activities.[5] **Table 1**, *LAUSD SUP Program EIR Noise and Vibration Impacts*, summarizes the Program EIR's conclusions regarding the noise and vibration impacts of the SUP, as well as the findings of this Project-specific analysis.

---

1 Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

2 Los Angeles Unified School District, Board of Education. Regular Board Meeting -November 10, 2015. http://laschoolboard.org/11-10-15RegBd.

3 LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

4 14 CCR Section 15168(c).

5 14 CCR Section 15168(c)(3).

TABLE 1
LAUSD SUP PROGRAM EIR NOISE AND VIBRATION IMPACTS

Environmental Threshold Would The Project:		Program EIR Level of Impact Significance	Project-Specific Level of Impact Significance	Applicable Standard Conditions of approval (SCs)
A)	Result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance?	Potentially Significant and Unavoidable	Less Than Significant with Mitigation Incorporated	SC-N-1 SC-N-2 SC-N-4
B)	Result in the generation of excessive ground-borne vibration during construction activities?	Potentially Significant and Unavoidable	Less Than Significant with Mitigation Incorporated	SC-N-5 SC-N-6 SC-N-7 SC-N-8
C)	Result in substantial permanent increase in ambient noise levels from traffic?	Less Than Significant	Less Than Significant	SC-N-3
D)	Result in substantial temporary or periodic increase in ambient noise levels in the project vicinity during construction?	Potentially Significant and Unavoidable	Less Than Significant with Mitigation Incorporated	SC-AQ-2 SC-N-5 SC-N-9
E)	If within an airport land use plan or within two miles of a public use airport or private airstrip, expose students or staff to excessive noise levels?	Less Than Significant	Less Than Significant	SC-N-2

SOURCE: LAUSD SUP FEIR 2015; ESA 2017

According to the Program EIR, projects implemented under the SUP are anticipated to have less than significant and potentially significant impacts on noise and vibration. However, the Project-specific analysis provided in Section 5.0 below concludes that implementation of the proposed Project would have less than significant impacts on the surrounding community and the school site.

The purpose of this report is to provide a detailed technical noise and vibration analysis of the proposed Project. ESA has conducted this noise and vibration assessment to evaluate the potential noise and vibration impacts associated with construction activities, traffic, and other aspects of the proposed Project construction and operations that have the potential to generate noise and vibration. The objectives of this Noise and Vibration Technical Report are to:

- Establish the existing noise environment at the Project Site;
- Evaluate the construction and operational noise and vibration levels associated with proposed Project development and the potential for noise and vibration impacts based on applicable standards and thresholds;
- Provide, if needed, noise and vibration mitigation measures as required to meet applicable noise and vibration standards and thresholds and the LAUSD SCs identified in the Program EIR.

1.1 Existing Conditions

Thomas Jefferson High School (Jefferson HS or campus) is an operational high school serving students in grades 9 through 12. After the traditional high school hours, the campus is used for the Jefferson Adult School. The campus was initially constructed in 1917 and was essentially rebuilt following the Long Beach Earthquake in 1933. Buildings at the Project Site include: a two-story Administrative and Main Classroom Building, Assembly Building (Auditorium), Cafeteria Building, Science Building, two Gymnasiums, lunch shelter/service building, Mechanical Arts Building, Music Building, Homemaking Building, Industrial Arts Building, several additional buildings including the Metal Shop and Power and Pump Vaults, portable buildings, and modular structures.[6]

On March 10, 2015, LAUSD's Board approved pre-design and due diligence activities necessary to develop a Project definition for a Comprehensive Modernization Project at Thomas Jefferson High School. The proposed Project is intended to provide facilities that are safe, secure, and aligned with the instructional program. On December 8, 2015, the Board approved the Project definition for Thomas Jefferson High School (Project Site or campus). This approval authorized LAUSD's Facilities Services Division to proceed with Project design and the completion of related technical and regulatory processes including those required under CEQA.

A Preliminary Environmental Assessment Equivalent (PEA-E) was prepared for the northern portion of the campus.[7] Lead and arsenic were detected in soil samples exceeding residential screening levels. A Removal Action Workplan (RAW)[8] prepared for the Project outlines the proposed action at the campus which includes soil excavation, removal and disposal of the majority of soils impacts with contaminants of concern (COCs), lead and arsenic, identified during the PEA-E activities.

1.2 Project Description

Jefferson HS is located upon approximately 18.9 acres in a residential area, approximately two miles south of downtown Los Angeles and approximately 15 miles east of the Pacific Ocean (**Figure 1**, *Project Vicinity*). Specifically, the 18.9-acre campus is located at 1319 East 41st Street within the southeast portion of the City of Los Angeles (Project Site). The campus comprises an entire block and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and residences and East 33rd Street to the north (**Figure 2**, *Project Location*). The Assessor's Parcel Number (APN) for the Project Site is 5114-03-6900. Project implementation would not occur across the entire school campus, but on selected areas undergoing renovation.

---

6 LAUSD. July 28, 2015. Character-Defining Features Memorandum (CDFM) for Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California 90011. Los Angeles, CA.

7 Alta Environmental. 2017. Draft Preliminary Environmental Assessment Equivalent Investigation Report, Thomas Jefferson High School Comprehensive Modernization, 1319 E. 41st Street, Los Angeles, California 90255,

8 Alta Environmental. 2017. Draft Removal Action Workplan for Soil, Thomas Jefferson High School, 1319 East 41st Street, Los Angeles, California.

As part of LAUSD's SUP, the District plans to implement a Comprehensive Modernization Project at Thomas Jefferson High School which includes various renovations, modernizations, and new construction; including the demolition and removal of existing buildings totaling approximately 116,000 square feet (sf), construction of new facilities totaling approximately 110,000 sf, and modernization of approximately 53,000 sf of buildings. Project implementation will not occur across the entire school campus, but on selected areas undergoing renovation.
The proposed Project would result in demolition of and/or modifications to existing buildings, potentially including historic buildings and resources. The Project has been designed to preserve and enhance significant (primary) character-defining features associated with the campus' historic core located at the south end of the Project Site. Additionally, the proposed Project would be designed and implemented in a manner that complies with the LAUSD Design Guidelines and Treatment Approaches for Historic Schools.[9]

The major Project components include: demolition of various buildings; construction of new buildings; upgrades to facilities throughout the campus; and improvements to comply with federal, State and local facilities requirements. **Table 2**, *Characteristics of Existing Buildings*, below, shows the buildings and modular buildings that would be demolished and removed and the buildings that would be renovated as a result of the proposed Project.

The proposed Project would be developed in phases over an approximately 5.5-year construction phasing schedule. The construction schedule would have limited to no overlap between phases. Construction is anticipated to take begin in 2019 and be completed in 2025 Building demolition would primarily occur during the summer recess and during periods when students are not on campus to prevent students from being exposed to air emissions from demolition activities, which could be higher than typical construction emissions.

1.2.1 Preconstruction

Soil Removal: As previously stated, lead and arsenic were found in shallow soils on the Project Site in excess of residential screening levels. Prior to construction, contaminated soil would be removed from the site and replaced with clean fill dirt. Alta Environmental prepared a Removal Action Workplan (RAW) to remove approximately 230 cubic yards of soil to meet cleanup goals. Soil removal duration would be approximately one week and would require haul trucks and off-road equipment, such as small excavators and loaders to handle and transport soils to haul trucks or potentially to temporary stockpiles. Haul trucks would transport contaminated soil to a licensed receiver facility in Buttonwillow, California.

9 Los Angeles Unified School District. January 2015. Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. Los Angeles, CA.

SOURCE: Los Angeles County GIS.

Thomas Jefferson High School Comprehensive Modernization Project. 211085.23

Figure 1
Project Vicinity

SOURCE: NAIP 2014

Thomas Jefferson High School Comprehensive Modernization Project. 211085.23

Figure 2
Project Location

TABLE 2
CHARACTERISTICS OF EXISTING BUILDINGS

Building/Site Plan Number	Building Name	Year Built	Building Type
Permanent Buildings/Structures to be Demolished/Removed			
Building 12/010DAM	Music Building	1951	Permanent
Building 16/011DAP	Home Economics[10]	1960	Permanent
Building 6/005BAN	Gymnasium Building (Competitive)	1955	Permanent
Building 25/023DAP	Metal Shop	1964	Permanent
Building 11/009BAJ	Mechanical Arts Building	1938	Permanent
Building 7/006BAN	Gymnasium Building (Practice)	1957	Permanent
Building 8/007C0E	Power House	1915	Permanent
Building 21/016BAN	Industrial Arts Building	1959	Permanent
Building 10/P0191K	Lunch Shelter Building	1941	Permanent
Building 9/008D0F	Lunch Service Building	1920	Permanent
Portable Buildings to be Removed			
X0217J	AA-217	1935	Portable
X0243J	AA-243	1935	Portable
A0497L	A-497	1949	Portable
A0548M	A-548	1950	Portable
A1245W	A-1245	1988	Portable
A1246W	A-1246	1988	Portable
A1247W	A-1247	1988	Portable
M0607L	M-607	1946	Portable
X0909M	AA-909	1950	Portable
X209P	AA-2096	1960	Portable
A1248W	A-1248	1988	Portable
X0960M	AA-960	1950	Portable
X2382P	AA-2382	1962	Portable
X0323L	AA-323	1947	Portable
X0306L	AA-306	1946	Portable
Permanent Buildings to be Modernized and/or Upgraded			
Building 1/001BCJ	Administrative Building	1936	Permanent
Building 4/001BCJ	Academic Building	1936	Permanent
Building 2/003BCJ	Auditorium (Assembly Hall) Building	1937	Permanent
Building 3/002CAJ	Cafeteria Building	1936	Permanent
Permanent Buildings/Structures to Remain			
Building 5/025BES	Science and Classroom Building	1936	Permanent
Building 33/019DAG	Bleachers Building	1926	Permanent

[10] Also referred to as the Homemaking Building.

Building/Site Plan Number	Building Name	Year Built	Building Type

SOURCE: LAUSD, 2016

1.2.2 Construction (Comprehensive Modernization Phases 1 to 5)

- **Phase 1**: This phase is anticipated to be completed in approximately 6 months. During Phase 1, portable buildings and structures located along Compton Avenue in the eastern portion of the site would be demolished and removed. After demolition and grading, this area would be used for construction staging and would include an electrical enclosure. The area east of the playing field would include the interim housing buildings.
- **Phase 2**: This phase is anticipated to be completed in approximately 24 months. During Phase 2, the portable buildings northeast of the playing field would be demolished. The Industrial Arts Building and Metal Shop Building interiors would be demolished as required for new proposed interim spaces. The interiors of the Industrial Arts and Shop Buildings would be remodeled. New portable buildings would be provided as interim housing in the same area.
- **Phase 3**: This phase is anticipated to be completed in approximately 24 months. During Phase 3, portable buildings, the Home Economics Building, Music Building, Mechanical Arts Building, Gymnasium Building, and Power House would be demolished. After demolition and grading activities, the development of the New Classroom Building, New Athletics Building, and new parking lots would be construction during this phase on the southeastern corner of the campus. The existing Administrative/Library Building interior remodeling would be completed during this phase.
- **Phase 4:** This phase is anticipated to be completed in approximately 24 months. During Phase 4, the Gymnasium (Boys' Gymnasium) would be demolished. The existing Administrative/Library Building interior would be demolished and remodeled during this phase. Improvements, including programmatic access and structural upgrades, for the Cafeteria Building and Auditorium Building would be completed during this phase. The new Lunch Pavilion and Quad would be constructed during this phase.
- **Phase 5:** This phase is anticipated to be completed in approximately six months. This phase would include the entire demolition of the interim housing area in the northeast portion of the campus and the buildings in the northwest corner of the campus. These areas would be redeveloped for parking, athletic courts and fields. The new parking area would be constructed internal to the campus along the Compton Avenue. The new tennis courts would be construction on the northwest corner of the campus the hardcourts and playing field and green house would be constructed in the eastern-northeastern area of the campus.

Modernization and/or upgrades would be completed for the following buildings:

- Administrative/Library Building[11]: Interior remodeling would be completed throughout this building to accommodate relocated classroom and the exterior would be painted. The upgrades would also entail interior Americans with Disabilities Act (ADA) programmatic access and structural (seismic) retrofits/improvements.

- Main Classroom Building: Interior remodeling would be completed throughout this building to accommodate relocated classroom and the exterior would be painted. The upgrades would also entail interior ADA programmatic access and structural (seismic) retrofits/improvements.

- Cafeteria Building: ADA programmatic access and structural (seismic) improvements would be completed within this building. The exterior of this building would be painted.

- Auditorium (Assembly) Building: ADA programmatic access and structural (seismic) improvements would be completed within this building. Several rows of seats may be removed and the building's exterior would be painted.

Seismic retrofitting would be completed in compliance with the seismic safety requirements of the LAUSD Supplemental Geohazard Assessment Scope of Work, California Building Code, Division of State Architect, and California Department of Education.

Site upgrades that would be completed throughout the campus include:

- Site-wide infrastructure, including plumbing, electrical, and storm drain.
- Site-wide upgrades to remove identified and prioritized barriers to program accessibility.
- Landscape, hardscape, and exterior paint.

Improvements as required by the Americans with Disabilities Act, Division of the State Architect, CEQA, Department of Toxic Substances Control (DTSC), Office of the Independent Monitor for ADA program accessibility, and any other required improvements or mitigations to ensure compliance with local, State, and/or federal facilities requirements.

1.3 Updated and Project-Specific Conditions

1.3.1 Noise Principles and Descriptors

Noise is generally defined as unwanted sound (i.e., loud, unexpected, or annoying sound). Acoustics is defined as the physics of sound. In acoustics, the fundamental scientific model consists of a sound (or noise) source, a receptor, and the propagation path between the two. The loudness of the noise source and obstructions or atmospheric factors affecting the propagation path to the receptor determines the sound level and characteristics of the noise perceived by the receptor. Acoustics addresses primarily the propagation and control of sound.

[11] Also referred to along with the Main Classroom Building as the Administration and Academic Building. Various documents for the Project Site that reference this building also refer to it as the: Administrative and Main Classroom Building, Administration Building, or Administration/Library Building and Main Classroom Building.

Sound, traveling in the form of waves from a source, exerts a sound pressure level (referred to as sound level) that is measured in decibels (dB), which is the standard unit of sound amplitude measurement. The dB scale is a logarithmic scale that describes the physical intensity of the pressure vibrations that make up any sound, with 0 dB corresponding roughly to the threshold of human hearing and 120 to 140 dB corresponding to the threshold of pain. Pressure waves traveling through air exert a force registered by the human ear as sound.

Sound pressure fluctuations can be measured in units of hertz (Hz), which correspond to the frequency of a particular sound. Typically, sound does not consist of a single frequency, but rather a broad band of frequencies varying in levels of magnitude. When all the audible frequencies of a sound are measured, a sound spectrum is plotted consisting of a range of frequency spanning 20 to 20,000 Hz. The sound pressure level, therefore, constitutes the additive force exerted by a sound corresponding to the sound frequency/sound power level spectrum.

The typical human ear is not equally sensitive to all frequencies of the audible sound spectrum. As a consequence, when assessing potential noise impacts, sound is measured using an electronic filter that deemphasizes the frequencies below 1,000 Hz and above 5,000 Hz in a manner corresponding to the human ear's decreased sensitivity to extremely low and extremely high frequencies. This method of frequency weighting is referred to as A-weighting and is expressed in units of A-weighted decibels (dBA). A-weighting follows an international standard methodology of frequency deemphasis and is typically applied to community noise measurements. Some representative common outdoor and indoor noise sources and their corresponding A-weighted noise levels are shown in **Figure 3**, *Decibel Scale and Common Noise Sources*.

1.3.2 Noise Exposure and Community Noise

An individual's noise exposure is a measure of noise over a period of time. A noise level is a measure of noise at a given instant in time. The noise levels presented in Figure 3 are representative of measured noise at a given instant in time; however, they rarely persist consistently over a long period of time. Rather, community noise varies continuously over a period of time with respect to the contributing sound sources of the community noise environment. Community noise is primarily the product of many distant noise sources, which constitute a relatively stable background noise exposure, with the individual contributors unidentifiable. The background noise level changes throughout a typical day, but does so gradually, corresponding with the addition and subtraction of distant noise sources such as traffic. What makes community noise variable throughout a day, besides the slowly changing background noise, is the addition of short-duration, single-event noise sources (e.g., aircraft flyovers, motor vehicles, sirens), which are readily identifiable to the individual.

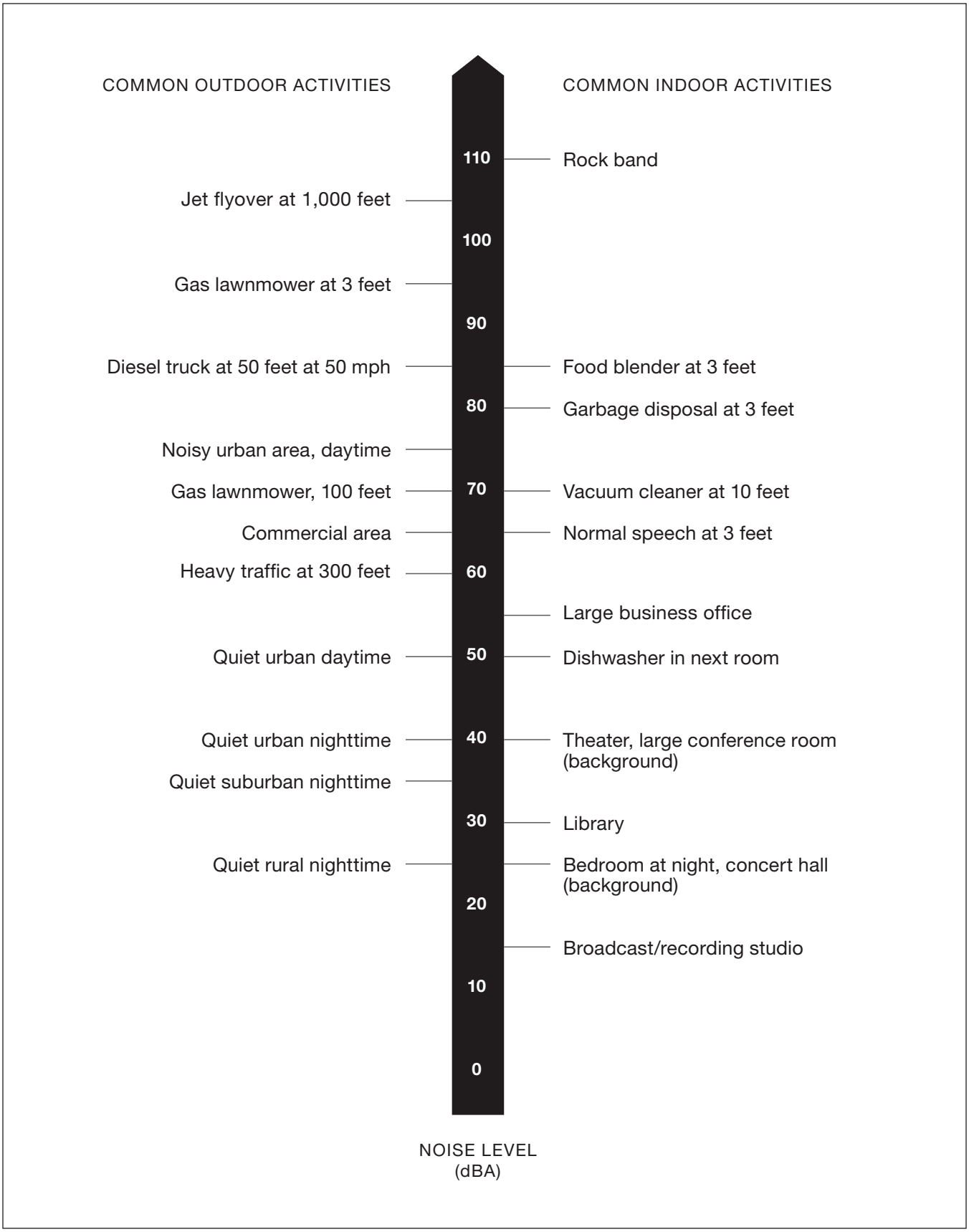
These successive additions of sound to the community noise environment change the community noise level from instant to instant, requiring the measurement of noise exposure over a period of time to legitimately characterize a community noise environment and evaluate cumulative noise impacts. This time-varying characteristic of environmental noise is described using statistical noise descriptors. The most frequently used noise descriptors are summarized below:

L_{eq}: The equivalent sound level, is used to describe noise over a specified period of time in terms of a single numerical value; the L_{eq} of a time-varying signal and that of a steady signal are the same if they deliver the same acoustic energy over a given time. The L_{eq} may also be referred to as the average sound level.

L_{max}: The maximum, instantaneous noise level experienced during a given period of time.

L_{min}: The minimum, instantaneous noise level experienced during a given period of time.

L_x: The noise level exceeded a percentage of a specified time period. For instance, L_{50} and L_{90} represent the noise levels that are exceeded 50 percent and 90 percent of the time, respectively.



SOURCE: Caltrans

Thomas Jefferson High School Comprehensive Modernization Project. 211085.23

Figure 3

Decibel Scale and Common Noise Sources

ESA

L_{dn}: the average A-weighted noise level during a 24-hour day, obtained after an addition of 10 dB to measured noise levels between the hours of 10:00 p.m. to 7:00 a.m. to account nighttime noise sensitivity. The L_{dn} is also termed the day-night average noise level (DNL).

CNEL: The Community Noise Equivalent Level (CNEL) is the average A-weighted noise level during a 24-hour day that is obtained after an addition of 5 dB to measured noise levels between the hours of 7:00 a.m. to 10:00 p.m. and after an addition of 10 dB to noise levels between the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the evening and nighttime, respectively.

1.3.3 Effects of Noise on People

Noise is generally loud, unpleasant, unexpected, or undesired sound that is typically associated with human activity that is a nuisance or disruptive. The effects of noise on people can be placed into four general categories:

- Subjective effects (e.g., dissatisfaction, annoyance);
- Interference effects (e.g., communication, sleep, and learning interference);
- Physiological effects (e.g., startle response); and
- Physical effects (e.g., hearing loss).

Although exposure to high noise levels has been demonstrated to cause physical and physiological effects, the principal human responses to typical environmental noise exposure are related to subjective effects and interference with activities. Interference effects of environmental noise refer to those effects that interrupt daily activities and include interference with human communication activities, such as normal conversations, watching television, telephone conversations, and interference with sleep. Sleep interference effects can include both awakening and arousal to a lesser state of sleep. With regard to the subjective effects, the responses of individuals to similar noise events are diverse and are influenced by many factors, including the type of noise, the perceived importance of the noise, the appropriateness of the noise to the setting, the duration of the noise, the time of day and the type of activity during which the noise occurs, and individual noise sensitivity.

Overall, there is no completely satisfactory way to measure the subjective effects of noise, or the corresponding reactions of annoyance and dissatisfaction on people. A wide variation in individual thresholds of annoyance exists, and different tolerances to noise tend to develop based on an individual's past experiences with noise. Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted (i.e., comparison to the ambient noise environment). In general, the more a new noise level exceeds the previously existing ambient noise level, the less acceptable the new noise level will be judged by those hearing it. With regard to increases in A-weighted noise level, the following relationships generally occur:

- Except in carefully controlled laboratory experiments, a change of 1 dBA cannot be perceived;

- Outside of the laboratory, a 3 dBA change in noise levels is considered to be a barely perceivable difference;
- A change in noise levels of 5 dBA is considered to be a readily perceivable difference; and
- A change in noise levels of 10 dBA is subjectively heard as doubling of the perceived loudness.

These relationships occur in part because of the logarithmic nature of sound and the decibel scale. The human ear perceives sound in a non-linear fashion hence the dB scale was developed. Because the dB scale is based on logarithms, two noise sources do not combine in a simple additive fashion, but rather logarithmically. Under the dB scale, a doubling of sound energy corresponds to a 3 dBA increase. In other words, when two sources are each producing sound of the same loudness, the resulting sound level at a given distance would be approximately 3 dBA higher than one of the sources under the same conditions. For example, if two identical noise sources produce noise levels of 50 dBA, the combined sound level would be 53 dBA, not 100 dBA. Under the dB scale, three sources of equal loudness together produce a sound level of approximately 5 dBA louder than one source, and ten sources of equal loudness together produce a sound level of approximately 10 dBA louder than the single source.

1.3.4 Noise Attenuation

When noise propagates over a distance, it changes in level and frequency content. The manner in which noise reduces with distance depends on factors such as the type of noise source and the propagation path. Noise from a localized source (i.e., point source) propagates uniformly outward in a spherical pattern; therefore, this type of propagation is referred to as “spherical spreading.” Stationary point sources of noise, including stationary mobile sources such as idling vehicles, attenuate (lessen) at a rate between 6 dBA for acoustically “hard” sites and 7.5 dBA for “soft” sites for each doubling of distance from the reference measurement as their energy is continuously spread out over a spherical surface. Hard sites are those with a reflective surface between the source and the receptor, such as asphalt or concrete surfaces or smooth bodies of water. No excess ground attenuation is assumed for hard sites and the changes in noise levels with distance (drop-off rate) is simply the geometric spreading of the noise from the source. Soft sites have an absorptive ground surface such as soft dirt, grass, or scattered bushes and trees. In addition to geometric spreading, an excess ground attenuation value of 1.5 dBA (per doubling distance) is normally assumed for soft sites.

Roadways and highways consist of several localized noise sources on a defined path, and hence are treated as “line” sources, which approximate the effect of several point sources. Noise from a line source propagates over a cylindrical surface, often referred to as “cylindrical spreading.” Line sources (e.g., traffic noise from vehicles) attenuate at a rate between 3 dBA for hard sites and 4.5 dBA for soft sites for each doubling of distance from the reference measurement.[12] Therefore, noise due to a line source attenuates less with distance than that of a point source with increased distance.

[12] California Department of Transportation (Caltrans), *Technical Noise Supplement* (TeNS). September, 2013.

Additionally, receptors located downwind from a noise source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Sound levels can be increased at large distances (e.g., more than 500 feet) due to atmospheric temperature inversion (i.e., increasing temperature with elevation). Other factors such as air temperature, humidity, and turbulence can also have significant effects.

1.3.5 Fundamentals of Vibration

Unlike the case for gases and liquids, there are several types of wave motion in solids including compression, shear, torsion, and bending. The solid medium can be excited by forces, moments or pressure fields. This leads to the terminology “airborne” (pressure fields) or “structure-borne/ground-borne” (forces and moments) vibration.

Ground-borne vibration propagates from the source through the ground to adjacent buildings by surface waves. Vibration may be comprised of a single pulse, a series of pulses, or a continuous oscillatory motion. The frequency of a vibrating object describes how rapidly it is oscillating, measured in Hz. Most environmental vibrations consist of a composite, or “spectrum” of many frequencies, and generally are classified as broadband or random vibrations. The normal frequency range of most ground-borne vibration, which can be felt, generally starts from a low frequency of less than 1 Hz to a high of about 200 Hz. Vibration information for this report has been described in terms of the peak particle velocity (PPV) measured in inches per second (in/sec).

Vibration energy dissipates as it travels through the ground, causing the vibration amplitude to decrease with distance away from the source. High-frequency vibrations reduce much more rapidly than do low frequencies, so that in the far-field zone distant from a source, the low frequencies tend to dominate. Soil properties also affect the propagation of vibration. When ground-borne vibration interacts with a building, there is usually a ground-to-foundation coupling loss; but the vibration also can be amplified by the structural resonances of the walls and floors. Vibration in buildings is typically perceived as rattling of windows, shaking of loose items, or the motion of building surfaces. The vibration of building surfaces also can be radiated as sound and heard as a low-frequency rumbling noise, known as ground-borne noise.

Ground-borne vibration is generally limited to areas within a few hundred feet of certain types of industrial operations and construction/demolition activities such as pile driving. Road vehicles rarely create enough ground-borne vibration amplitude to be perceptible to humans unless the receptor is in immediate proximity to the source or the road surface is poorly maintained and has potholes or bumps. If traffic, typically heavy trucks, does induce perceptible building vibration, it is most likely an effect of low-frequency airborne noise or ground characteristics.

Building structural components also can be excited by high levels of low-frequency airborne noise (typically less than 100 Hz). The many structural components of a building, excited by low-frequency noise, can be coupled together to create complex vibrating systems. The low-frequency vibration of the structural components can cause smaller items such as ornaments, pictures, and shelves to rattle, which can cause annoyance to building occupants.

Human sensitivity to vibration varies by frequency and by receptor. Generally people are more sensitive to low-frequency vibration. Human annoyance also is related to the number and duration of events; the more events or the greater the duration, the more annoying it becomes. Ground-borne vibration related to human annoyance is generally related to root mean square (rms) velocity levels expressed in VdB.

1.3.6 Existing Conditions

Some land uses are considered more sensitive to ambient noise levels than others are, due to the amount of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities typically involved. According to the General Plan, residential areas are to be the most sensitive type of land use to noise and industrial/commercial areas are considered to be the least sensitive. Existing noise sensitive uses in the immediate vicinity of the Project Site include:

- School classrooms
- North: a mix of single- and multi-family residences between the Project Site and 33rd Street.
- East: single-family residences are located along Compton Avenue.
- South: Morning Star Baptist Church and multi-family residences located along 41st Street.
- West: single-family residences are located along Hooper Avenue.

Ambient Noise Levels

The predominant existing noise source surrounding the Project Site is vehicular traffic noise from local roadways. Ambient noise was not measured. Instead, the population-based methodology described in the Federal Transit Administration's (FTA) Transit Noise and Vibration Assessment document was used. The FTA's document indicates that the ambient noise level for the population per square mile between 3,000 and 10,000 would be 55 dBA. The population per square mile for the City of Los Angeles is 8,092.3 based on the 2010 Census data, which is included in Appendix A. Therefore, for the assessment, the ambient noise level in the vicinity of the Project Site is determined to be 55 dBA.

Existing Groundborne Vibration Levels

Aside from periodic construction work that may occur throughout the City, other sources of groundborne vibration in the Project Site vicinity may include heavy-duty vehicular travel (e.g., refuse trucks, delivery trucks, etc.) on local roadways. FTA document states that rubber-tire vehicles rarely create ground-borne vibration problems unless there is a discontinuity or bump in the road that causes the vibration. It also states that a typical bus operating on smooth roadway would generate groundborne vibration velocity levels of approximately 63 VdB (approximately 0.006 in/sec PPV) at 50 feet.

SECTION 2
Regulatory Setting

A number of statutes, regulations, plans and policies have been adopted which address noise and vibration concerns. Detailed below is a discussion of the relevant regulatory setting and noise and vibration regulations, plans, and policies.

2.1 Federal

The United States Code of Regulations Title 14 (Aeronautics and Space), Part 150, Airport Noise Compatibility Planning, has procedures, standards, and methodology governing the development, submission, and review of airport noise exposure maps and airport noise compatibility programs, including the process for evaluating and approving or disapproving those programs.[13] It prescribes methods to determine exposure of individuals to noise from the operations of an airport and also identifies land uses that are normally compatible with various levels of exposure to noise. Development of schools exposed to annual 65 dBA Ldn noise levels due to aircraft noise should be prohibited.

The Program EIR uses the FTA's guidance, 2006 Transit Noise and Vibration Impact Assessment, to evaluate vibration levels resulting from Project construction activities. Based on this guidance, the vibration standards are presented in **Table 3**, *Ground Ground-Borne Vibration Criteria: Human Annoyance*, and **Table 4**, *Ground-Borne Vibration Criteria: Architectural Damage*.

TABLE 3
GROUND-BORNE VIBRATION CRITERIA: HUMAN ANNOYANCE

Land Use Category	Max Lv (VdB)	Description
Workshop	90	Distinctly felt vibration. Appropriate to workshops and nonsensitive areas.
Office	84	Felt vibration. Appropriate to offices and nonsensitive areas.
Residential – Daytime	78	Barely felt vibration. Adequate for computer equipment.
Residential – Nighttime	72	Vibration not felt, but groundborne noise may be audible inside quiet rooms.

NOTE: Max Lv (VdB): Lv is the velocity level in decibels, as measured in 1/3-octave bands of frequency over the frequency ranges of 8 to 80 Hz.

SOURCE: LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

[13] US Code of Regulations Title 14 (Aeronautics and Space), Part 150 – Airport Noise Compatibility Planning. Available: https://www.ecfr.gov/cgi-bin/text-idx?SID=be8979d73fde1f6d5baa77fe531cf66b&mc=true&node=pt14.3.150&rgn=div5. Accessed September 2017.

TABLE 4
GROUND-BORNE VIBRATION CRITERIA: ARCHITECTURAL DAMAGE

Building Category	PPV (in/sec)
I. Reinforced-concrete, steel or timber (no plaster)	0.5
II. Engineered concrete and masonry (no plaster)	0.3
III. Non-engineered timber and masonry buildings	0.2
IV. Buildings extremely susceptible to vibration damage	0.12

NOTE: Lv (VdB): Lv is the velocity level in decibels, as measured in 1/3-octave bands of frequency over the frequency ranges of 8 to 80 Hz.

SOURCE: LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

2.2 State

Under California Code of Regulations (CCR) Title 5,[14] the California Department of Education (CDE) regulations require the school district to consider noise in the site selection process. As recommended by CDE guidance, if a school district is considering a potential school site near a freeway or other source of noise, it should hire an acoustical engineer to determine the level of sound that the site is exposed to and to assist in designing the school should that site be chosen.

CCR Title 24 establishes the California Building Code (CBC). The most recent building standard adopted by the legislature and used throughout the State is the 2016 version, which took effect on January 1, 2017. The State of California's noise insulation standards are codified in the CBC (Title 24, Part 2, Chapter 12). These noise standards are for new construction in California for the purposes of interior compatibility with exterior noise sources. The regulations specify that acoustical studies must be prepared when noise-sensitive structures, such as residential, schools, or hospitals, are near major transportation noises, and where such noise sources create an exterior noise level of 60 dBA CNEL or higher. Acoustical studies that accompany building plans must demonstrate that the structure has been designed to limit interior noise in habitable rooms to acceptable noise levels. For new residential buildings, schools, and hospitals, the acceptable interior noise limit for new construction is 45 dBA CNEL.

CCR Title 21, Subchapter 6 established the Airport Noise Standards of 65 dBA CNEL as the acceptable level of aircraft noise for persons living in the vicinity of airports. Title 21 applies to airports that have been designated "noise problem airports," which include LAX, Long Beach, and Bob Hope Airports. Noise-sensitive land uses in locations where the aircraft exterior noise level exceeds 65 dBA CNEL are generally incompatible, unless (1) an aviation easement for aircraft noise has been acquired by the airport proprietor or (2) the residence is a high-rise

[14] California Code of Regulations, Title 5. Education, Division 1. California Department of Education, Chapter 13. School Facilities and Equipment, Subchapter 1. School Housing, Article 2. School Sites, 14010. Standards for School Site Selection. Available: https://govt.westlaw.com/calregs/Document/I8037DA60D48011DEBC02831C6D6C108E?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default). Accessed September 2017.

apartment or condominium that has an interior CNEL of 45 dBA or less in all habitable rooms despite aircraft noise and has an air circulation or air conditioning system, as appropriate.

2.3 Local

While LAUSD is exempt from local jurisdictional municipal codes, the District typically considers local plans and policies for the communities surrounding its facilities. The proposed Project is located within the City of Los Angeles. Applicable City of Los Angeles and LAUSD noise plans and policies are described below.

2.3.1 City of Los Angeles Municipal Code

Chapter XI, Noise Regulation, of the Los Angeles Municipal Code (LAMC) establishes acceptable ambient sound levels to regulate intrusive noises (e.g., stationary mechanical equipment and vehicles other than those traveling on public streets) within specific land use zones and provides procedures and criteria for the measurement of the sound level of noise sources. These procedures recognize and account for differences in the perceived level of different types of noise and/or noise sources. In accordance with the Noise Regulations, a noise level increase from certain regulated noise sources of 5 dBA L_{eq} over the existing or presumed ambient noise level at an adjacent property line is considered a violation of the Noise Regulations. The 5 dBA L_{eq} increase above ambient is applicable to City-regulated noise sources (e.g., mechanical equipment), and it is applicable any time of the day.[15]

To account for people's increased tolerance for short-duration noise events, the Noise Regulations provide a 5 dBA L_{eq} allowance for noise occurring more than 5 but less than 15 minutes in any 1-hour period and an additional 5 dBA L_{eq} allowance (total of 10 dBA L_{eq}) for noise occurring 5 minutes or less in any 1-hour period.[16]

Section 41.40 of the LAMC prohibits any construction or repair work of any kind between the hours of 9:00 p.m. and 7:00 a.m. of the following day. It also prohibits construction activities before 8:00 a.m. or after 6:00 p.m. on any Saturday or national holiday or at any time on any Sunday.

Section 112.05 of the LAMC defines the maximum noise level of powered equipment or powered hand tools. The noise level is limited to 75 dBA at 50 feet for construction, industrial, and agricultural machinery including crawler-tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, motor graders, paving machines, off-highway trucks, ditchers, trenchers, compactors, scrapers, wagons, pavement breakers, compressors and pneumatic or other powered equipment, between the hours of 7:00 a.m. and 10:00 p.m., in any residential zone of the City or within 500 feet. However, noise limitations shall not apply where compliance is technically infeasible, which means that noise limitations cannot be complied with despite the use

[15] City of Los Angeles, Municipal Code, Chapter XI, Noise Regulation, Section 112.02.

[16] City of Los Angeles Municipal Code, Chapter XI, Noise Regulation, Article I, Section 111.02-(b).

of mufflers, shields, sound barriers and/or other noise reduction device or techniques during the operation of the equipment.

2.3.1 City of Los Angeles Guidelines for Noise-Compatible Land Uses

The City has adopted local guidelines based, in part, on the community noise compatibility guidelines established by the State Department of Health Services for use in assessing the compatibility of various land use types with a range of noise levels. These guidelines are set forth in the City of LA CEQA Thresholds Guide in terms of the CNEL. CNEL guidelines for specific land uses are classified into four categories: (1) "normally acceptable," (2) "conditionally acceptable," (3) "normally unacceptable," and (4) "clearly unacceptable." As shown in **Table 5,** *City of Los Angeles Land Use Compatibility for Community Noise*, a CNEL value of 70 dBA is the upper limit of what is considered a "conditionally acceptable" noise environment for hotel uses, although the upper limit of what is considered "normally acceptable" for hotel uses is set at 65 dBA CNEL.[17]

TABLE 5
CITY OF LOS ANGELES LAND USE COMPATIBILITY FOR COMMUNITY NOISE

	Community Noise Exposure CNEL (dBA)			
Land Use	**Normally Acceptable**	**Conditionally Acceptable**	**Normally Unacceptable**	**Clearly Unacceptable**
Single-Family, Duplex, Mobile Homes	50 to 60	55 to 70	70 to 75	Above 70
Multi-Family Homes	50 to 65	60 to 70	70 to 75	Above 70
Schools, Libraries, Churches, Hospitals, Nursing Homes	50 to 70	60 to 70	70 to 80	Above 80
Transient Lodging—Motels, Hotels	50 to 65	60 to 70	70 to 80	Above 80
Auditoriums, Concert Halls, Amphitheaters	—	50 to 70	—	Above 65
Sports Arena, Outdoor Spectator Sports	—	50 to 75	—	Above 70
Playgrounds, Neighborhood Parks	50 to 70	—	67 to 75	Above 72
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50 to 75	—	70 to 80	Above 80
Office Buildings, Business and Professional Commercial	50 to 70	67 to 77	Above 75	—
Industrial, Manufacturing, Utilities, Agriculture	50 to 75	70 to 80	Above 75	—

Normally Acceptable: Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.
Conditionally Acceptable: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.
Normally Unacceptable: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.
Clearly Unacceptable: New construction or development should generally not be undertaken.

SOURCE: City of Los Angeles, LA CEQA Thresholds Guide, 2006.

[17] City of Los Angeles, 2006 LA CEQA Thresholds Guide: Your Resource for Preparing CEQA Analyses in Los Angeles, Section I.2, 2006.

2.3.3 Los Angeles Unified School District Program EIR

The Program EIR for School Upgrade Program[18] establishes Standard Conditions (SCs) for reducing impacts on noise and vibration in areas where future projects would be implemented under the SUP. Applicable SCs related to noise impacts associated with the proposed Project are provided in **Table 6**, *Noise Standard Conditions of Approval*.

Noise impacts of projects implemented under the Program EIR are anticipated to be less-than-significant with the incorporation of SCs. The Project-specific analysis provided below determined that noise impacts related to implementation of the proposed Project would also be less than significant with incorporation of SCs N-1 through N-9.

[18] LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

TABLE 6
NOISE STANDARD CONDITIONS OF APPROVAL

Reference Number	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
SC-N-1	Exterior Campus Noise	Exterior noise levels are or would be greater than 70 dBA L10 or 67 dBA Leq	During Project design	LAUSD shall include features such as sound walls, building configuration, and other design features in order to attenuate exterior noise levels on a school campus to less than 70 dBA L10 or 67 dBA Leq.
SC-N-2	Interior Classroom Noise	Interior classroom noise levels would be greater than 55 dBA L10 or 45 dBA Leq	During Project design	LAUSD shall analyze the acoustical environment of the site (such as traffic) and the characteristics of planned building components (such as heating, ventilation, and air conditioning [HVAC]), and design to achieve interior classroom noise levels of less than 55 dBA L10 or 45 dBA Leq with maximum (unoccupied) reverberation times of 0.6 seconds. Noise reduction methods shall include, but are not limited to, sound walls, building and/or classroom insulation, HVAC modifications, double-paned windows, and other design features in order to achieve the noise standards. • The District should acknowledge the ANSI (American National Standards Institute) S12 standard as a District goal that may presently not be achievable in all cases. • Where economically feasible, new school design should achieve classroom acoustical quality consistent with the ANSI standard and in no event exceed the current CHPS (California High Performance Schools) standard of 45 dBA. • Where economically feasible, new HVAC (Heating, Ventilating, and Air Conditioning) installations should be designed to achieve the lowest possible noise level consistent with the ANSI standard. In no event should these installations exceed the current CHPS standard of 45 dBA. • To promote the development of lower noise emitting HVAC units, the District's purchase of new units should give preference to manufacturers producing the lowest noise level at the lowest cost. • Existing HVAC units operating in excess of 50 dBA should be modified.
SC-N-3	Traffic Noise	Project-related traffic noise level exceeds local noise standards, policies, or ordinances	Prior to Project approval	LAUSD shall require an acoustical analysis to identify feasible measures to reduce traffic noise increases to 3 dBA community noise equivalent level (CNEL) or less at the noise-sensitive land use. LAUSD shall implement recommended measures to reduce noise.
SC-N-4	Operational Noise	Operational noise levels exceeds local noise standards, policies, or ordinances at noise-sensitive land uses	During Project design and construction	LAUSD shall incorporate long-term permanent noise attenuation measures between playgrounds, stadiums, and other noise-generating facilities and noise-sensitive land uses, to reduce noise levels to meet jurisdictional standards or an increase of 3 dB or less over ambient. Operational noise attenuation measures include, but are not limited to: • buffer zones • berms • sound barriers:

Reference Number	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
				• buildings • masonry walls • enclosed bleacher foot wells • other site-specific Project design features.
SC-N-5	Construction Noise and Vibration (Annoyance)	Construction on an existing school campus	Prior to construction	LAUSD Facilities Division or its construction contractor shall consult and coordinate with the school principal or site administrator, and other nearby noise sensitive land uses prior to construction to schedule high noise or vibration producing activities to minimize disruption. Coordination between the school, nearby land uses and the construction contractor shall continue on an as-needed basis throughout the construction phase of the Project to reduce school and other noise sensitive land use disruptions.
SC-N-6	Vibration (Structural Damage)	Rock blasting or demolition activities	During construction	The LAUSD shall require the construction contractor to minimize blasting for all construction and demolition activities, where feasible. If demolition is necessary adjacent to residential uses or fragile structures, the LAUSD shall require the construction contractor to avoid using impact tools. Alternatives that shall be considered include mechanical methods using hydraulic crushers or deconstruction techniques.
SC-N-7	Vibration (Structural Damage)	Pile driving or heavy vibration activities	During construction (Construction)	For projects where pile driving activities are required within 150 feet of a structure, a detailed vibration assessment shall be provided by an acoustical engineer to analyze potential impacts related to vibration to nearby structures and to determine feasible mitigation measures to eliminate potential risk of architectural damage.
SC-N-8	Vibration (Structural Damage)	Vibration intensive activities are planned within 25 feet of a historic building or structure	Prior to and during demolition and construction (Construction)	LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers. • Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building. • The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building. • The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building. • During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any ground impacting operation associated with demolition and construction of a new building. • During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue “stop-work” orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented.
SC-N-9	Construction Noise	Exterior construction and the use of large, heavy or noisy	During construction (Construction)	LAUSD shall prepare a noise assessment. If site-specific review of a school construction Project identifies potentially significant adverse construction noise impacts, then LAUSD shall implement all feasible measures to reduce below applicable noise ordinances. Exterior construction noise levels exceed local noise standards, policies, or ordinances at noise-

Reference Number	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
		construction equipment		sensitive receptors. LAUSD shall mandate that construction bid contracts include the measures identified in the noise assessment. Specific noise reduction measures include, but are not limited to, the following: <u>Source Controls</u> • Time Constraints – prohibiting work during sensitive nighttime hours • Scheduling – performing noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM) • Equipment Restrictions – restricting the type of equipment used • Noise Restrictions – specifying stringent noise limits • Substitute Methods – using quieter methods and/or equipment • Exhaust Mufflers – ensuring equipment have quality mufflers installed • Lubrication & Maintenance – well maintained equipment is quieter • Reduced Power Operation – use only necessary size and power • Limit Equipment Onsite – only have necessary equipment onsite • Noise Compliance Monitoring – technician on site to ensure compliance • Quieter Backup Alarms – manually-adjustable or ambient sensitive types <u>Path Controls</u> • Noise Barriers – semi-permanent or portable wooden or concrete barriers • Noise Curtains – flexible intervening curtain systems hung from supports • Enclosures – encasing localized and stationary noise sources • Increased Distance – perform noisy activities farther away from receptors, including operation of portable equipment, storage and maintenance of equipment <u>Receptor Controls</u> • Window Treatments – reinforcing the building's noise reduction ability • Community Participation – open dialog to involve affected residents • Noise Complaint Process – ability to log and respond to noise complaints. Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the Project area. The notice shall state specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the contractor and the District. In the event of noise complaints, the LAUSD shall monitor noise from the construction activity to ensure that construction noise does not exceed limits specified in the noise ordinance. • Temporary Relocation – in extreme otherwise unmitigatable cases. Temporarily move residents or students to facilities away from the construction activity.

SOURCE: LAUSD OEHS. "School Upgrade Program Final Environmental Impact Report." http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

SECTION 3
Significance Thresholds

Pursuant to Appendix G of the State *CEQA Guidelines*, the Project would result in a significant impact related to noise and vibration if it would:

a. Result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.

b. Result in exposure of persons to or generation of excessive ground-borne vibration or ground-borne noise levels.

c. Result in a substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the project.

d. Result in substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project.

e. For a project located within an airport land use plan or where such a plan has not been adopted, within two miles of a public airport or public use airport, expose people residing or working in the Project area to excessive noise levels.

f. For a project within the vicinity of a private airstrip, expose people residing or working in the Project area to excessive noise levels.

3.1 Federal Noise Thresholds

With respect to noise from airports, development of schools exposed to annual 65 dBA L_{dn} noise levels due to aircraft noise should be prohibited.[19]

3.2 State Noise Thresholds

For new schools, the interior noise threshold for new construction is 45 dBA CNEL.

[19] The federal 65 dBA Ldn is based on the annual average flight operations taking into account seasonal arrival/depart activity, weather, etc. The annual CNEL, in decibels, is the average (on an energy basis) of the daily CNEL over a 12-month period. On any given day the noise contour map may be different than the annual because of weather-related flight pattern variations, fewer flights, etc.

3.3 Local Noise Thresholds

3.3.1 City of Los Angeles

Operational Traffic Noise

A project would have a long-term operational noise impact if noise levels from project operations cause the ambient noise levels at the property line of affected uses to increase by 3 dBA CNEL, and noise levels reach or are within the "normally unacceptable" or "clearly unacceptable" category or increase by 5 dBA CNEL or greater.

Operational Stationary Noise

Stationary noise sources are prohibited from causing the ambient noise level to increase by more than 5 dBA L_{eq}.

Construction Noise

Project construction-related activities would result in a significant noise impact at nearby sensitive uses if:

- Construction-related noise levels exceed 75 dBA L_{eq} measured at a distance of 50 feet from equipment when construction activities are located within 500 feet of a residential area unless technically feasible mitigation measures are incorporated;
- Construction activities lasting more than 1 day would exceed existing ambient exterior noise levels by 10 dBA L_{eq} or more at a noise sensitive use;
- Construction activities lasting more than 10 days in a 3-month period would exceed existing ambient exterior noise levels by 5 dBA L_{eq} or more at a noise sensitive use; or
- Construction activities would exceed the ambient noise level by 5 dBA L_{eq} at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday or national holiday, or at anytime on Sunday.

3.3.2 Los Angeles Unified School District

The Program EIR outlines the following LAUSD noise level thresholds for school sites according to Education Code Section 17215. The Project would result in a significant long-term noise impact if:

- Exterior noise levels exceed 67 dBA L_{eq};
- Interior classroom noise levels exceed 45 dBA L_{eq}; or
- Permanent increase noise levels at nearby noise-sensitive land uses exceed 3 dBA CNEL

3.4 Vibration Criteria

The *CEQA Guidelines* do not define the levels at which groundborne vibration or groundborne noises are considered "excessive." The City of Los Angeles currently does not have a

significance threshold to assess vibration impacts during construction. However, the FTA has provided guidance for the analysis of vibration from transportation and construction-induced vibration sources. The Project is not subject to FTA or Caltrans regulations; nonetheless, the FTA guidance serve as a useful tool to evaluate vibration impacts. For the purpose of this analysis, the vibration criteria for human annoyance and structural damage established by the FTA, which are shown previously in Table 3 and Table 4, respectively, are used to evaluate the potential vibration impacts of the Project on nearby sensitive receptors.

SECTION 4
Methodology

4.1 Construction Noise Levels

Project construction noise levels were estimated using the FHWA's Roadway Construction Noise Model (RCNM) and construction equipment information provided by the LAUSD. Predicted noise levels were identified for the nearest sensitive receptors, as well as for classrooms on campus, based on their respective distances from the construction equipment. To present a conservative impact analysis, the estimated noise levels were calculated for a scenario in which the loudest equipment were assumed to be located at the construction area boundary closest to sensitive receptors. The remaining construction equipment were assumed to be located at the approximate mid-point within the construction area boundary and at the furthest point within the construction area boundary relative to the sensitive receptor. These assumptions represent a reasonable worst-case noise scenario since the loudest construction equipment were assumed to be located closest to sensitive receptors. In reality, construction equipment operate throughout a construction area and the loudest construction equipment would not always be located at the nearest distance to sensitive receptors, but would typically be active throughout the Project Site and would routinely be located further away from the affected sensitive receptors. The construction noise levels were calculated, in terms of maximum hourly L_{eq}, for sensitive receptor locations based on the standard point source noise-distance attenuation factor of 6.0 dBA for each doubling of distance. The estimated noise levels at the affected receptors were then analyzed against the construction noise standards established in Section 3.0. Detailed noise calculations are provided in **Appendix B**.

4.2 Operational Noise Levels

4.2.1 Offsite Roadway Noise Levels

Offsite construction related haul truck traffic noise levels were calculated using the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM), Version 2.5.

4.2.2 Onsite Stationary Source Noise Levels

During operation of the Project, noise levels would be generated onsite by stationary noise sources, such as generators and air conditioning units, and student activities. The noise levels generated by the stationary noise sources are not assessed because the locations and specifications of equipment would not be available at this stage of the proposed Project. Instead, a qualitative assessment was used and the applicable Standard Conditions from the Program EIR were incorporated.

4.3 Groundborne Vibration Levels

Groundborne vibration levels resulting from construction activities at the Project Site were estimated using data in the FTA *Transit Noise and Vibration Impact Assessment* guidance document.[20] Potential vibration levels resulting from construction of the Project are identified for offsite locations that are sensitive to vibration (i.e., existing residential buildings) based on their distance from construction activities, as well as classrooms on campus.

[20] FTA, *Transit Noise and Vibration Impact Assessment*. May 2006.

SECTION 5
Environmental Impacts

5.1 Noise Levels in Excess of Standards

Impact 1: The Project would not result in the exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. (Less Than Significant)

5.1.1 Construction Noise

Onsite Construction

Construction of the proposed Project would occur in multiple phases within the campus boundary and is expected to last approximately 5.5 years. Construction activities would be implemented in six phases, with limited to no overlap between phases. Soil Removal would take place throughout the campus. Phase 1 would take place at the area between the Homemaking Building[21] and the Industrial Arts Building. Phase 2 would take place at the area east of the playing field. Phase 3 would take place at the Administration and Academic Building, Mechanical Arts Building, Gymnasium Building, and Homemaking Building. Phase 4 would take place at the Assembly Hall Building[22], Cafeteria Building, and Science and Classroom Buildings. Phase 5 would take place at the clinic in the northwest corner and remove portable classrooms that were placed east of the playing field with green spaces and tennis courts.

Construction activities occurring during each of these phases would require the use of heavy equipment (e.g., excavators, backhoes, loaders, tractors, etc.) along with the use of smaller power tools, generators, and other sources of noise. During each construction phase there would be a different mix of equipment operating and noise levels would vary based on the amount of equipment in operation and the location of each activity. As such, construction activity noise levels during each phase would fluctuate depending on the particular type, number, and duration of use of the various pieces of construction equipment.

Table 7, *Construction Equipment Usage and Noise Levels*, lists the type, maximum noise level, quantity, usage factor, and estimated noise levels of construction equipment to be used for each phase of construction. It should be noted that maximum noise levels associated with construction equipment would only be generated when the equipment is operated at full power. Typically, the operating cycle for a piece of construction equipment would involve one or two minutes of full power operation followed by three or four minutes at lower power settings. As such, the

[21] Also referred to as the Home Economics Building
[22] Also referred to as the Auditorium Building

maximum noise levels shown in Table 4 would occur occasionally throughout the construction day.

TABLE 7
CONSTRUCTION EQUIPMENT USAGE AND NOISE LEVELS

Phase and Equipment	Maximum Noise Level at 50 feet (dBA) [b]	Equipment Quantity (per Phase)	Usage Factor [b]
Soil Removal			
Rubber Tired Loader	79	2	40%
Tractor/Loader/Backhoes	80	2	40%
Phases 1-5 (equipment per each phase)			
Air Compressor (Phases 4-5)	78	1	50%
Concrete/Industrial Saw	90	1	20%
Crushing/Processing Equipment	85	1	50%
Rubber Tired Dozers	85	2	40%
Tractors/Loaders/Backhoes	78	2	40%
Grader	85	1	40%
Forklift (Phases 1-4)	80	1	40%
Forklifts (Phase 5)	80	2	40%
Generator Set (Phases 1-4)	82	1	50%
Other Construction Equipment	85	1	50%
Paver (Phases 3-5)	85	1	50%
Roller (Phases 3-5)	85	1	20%
Crane (Phases 1-4)	81	1	40%
Welder (Phases 1-4)	74	1	40%

[a] Maximum Noise Levels and Usage Factor are derived from Federal Highway Administration's (FHWA) Roadway Construction Noise Model User's Guide. Noise levels for those equipment not included in this User's Guide are estimated based on similar equipment.

SOURCE: LAUSD 2016, ESA 2017

As discussed previously, the Project Site is bounded by 33rd Street to the north, Hooper Avenue to the west, East 41st Street to the south, and Compton Avenue to the east. Noise-sensitive receptors to the north, east, and west of the Project Site consist of residential uses. The closest receptors to the south of the Project Site are Morning Star Baptist Church and residential uses. To present a conservative impact analysis, the estimated noise levels were calculated for a scenario in which the loudest equipment were assumed to be located at the construction area boundary closest to sensitive receptors. The remaining construction equipment were assumed to be located at the approximate mid-point within the construction area boundary and at the furthest point within the construction area boundary relative to the sensitive receptor. Distances between the closest construction site and the receptors with estimated noise levels per construction phase are presented in **Table 8**, *Estimated Construction Noise Levels at Sensitive Receptors*. These noise levels do not account for noise shielding effects such as the use of construction noise barriers. The maximum construction noise impacts are associated with primarily with demolition activities.

TABLE 8
ESTIMATED CONSTRUCTION NOISE LEVELS AT SENSITIVE RECEPTORS

Phase	Receptor Direction	Estimated Closest Distance (feet)	Estimated Maximum Noise Levels (dBA L_{eq})
Soil Removal	Classroom	25	84
	North	150	70
	West	370	62
	South	430	61
	East	70	75
Phase 1	Classroom	25	87
	North	30	86
	West	600	66
	South	650	65
	East	75	80
Phase 2	Classroom	115	79
	North	50	81
	West	485	67
	South	750	63
	East	100	80
Phase 3	Classroom	160	76
	North	360	70
	West	420	68
	South	480	67
	East	130	78
Phase 4	Classroom	25	87
	North	500	67
	West	50	81
	South	200	74
	East	480	67
Phase 5	Classroom	50	86
	North	25	80
	West	50	81
	South	700	64
	East	50	81

NOTE: Distances shown represent the closest distance to the nearest receptor. Noise modeling accounted for equipment placed at the approximated closest, midpoint, and furthest points of the phase area.

SOURCE: ESA 2017

Noise impacts are considered potentially significant when construction noise levels exceed the ambient noise levels by 5 dBA or more. As it is described under subheading Ambient Noise Levels, above, the ambient noise level is estimated to be 55 dBA. Therefore, the exterior noise

significance threshold for offsite residential uses would be 60 dBA for this Project. The exterior noise significance threshold for school sites would be 67 dBA as established in the LAUSD SUP Program EIR per Education Code Section 17215. The estimated maximum construction noise levels presented in Table 4.12-6 would potentially exceed the 60 dBA exterior threshold for offsite residential uses and the 67 dBA exterior threshold for school sites. Therefore, the impact would be considered potentially significant. The proposed Project requires compliance with the Program EIR SCs, as shown in Table 4.12-1. SC-N-1 requires the use of noise-reduction features such as sound walls. SC-N-9 requires site-specific noise control measures, which can include time and scheduling constraints for noise-generating activities, equipment restrictions, substituting quieter construction methods and/or equipment, ensuring equipment is well maintained, reducing the power and size of the equipment, and other features as needed in order to reduce impacts to less than significant. To reduce the construction noise levels to less-than-significant levels, the noise level would be required to be reduced to below 60 dBA (ambient + 5 dBA) for offsite residential uses and 67 dBA for school sites. As shown in Table 4.12-6, since certain construction activities would occur at relatively close distances to offsite residential uses and onsite school uses, the construction noise level could be as high as 87 dBA during maximum construction noise-generating activities (i.e., such as demolition activities). The addition of 20-foot high noise barrier with acoustical barriers or blankets can reduce noise levels by up to 20 dBA. Per SC-N-9, the Project would be required to ensure that contractor(s) equip all construction equipment, fixed or mobile, with properly operating and maintained noise mufflers, consistent with manufacturers' standards. For example, absorptive noise mufflers are commercially available feasible technology that can achieve state-of-the-art noise reduction for heavy-duty construction equipment.[23] The City of Los Angeles recognizes that the use of mufflers can achieve in practice noise reductions of 1 to 3 dBA.[24] In addition, per SC-N-9, the Project would limit the use of noise-generating construction equipment in close proximity to occupied onsite classrooms and offsite residences. During demolition activities, which generates the highest noise levels, noisy equipment such as concrete/industrial saws would not be used within approximately 50 feet of occupied onsite classrooms or within approximately 100 feet offsite residences. The use of other heavy-duty noise-equipment such as grading equipment would be minimized within 50 feet of occupied onsite classrooms and offsite residences and used only when necessary or substituted with smaller grader equipment models that generate less noise. Other less mobile equipment such as generators and cranes would be situated as far from occupied onsite classrooms and offsite residences as possible (at least 50 feet away). Implementation of these Standard Conditions (other than noise barriers) would achieve at least a 12 dBA additional reduction in noise levels. Furthermore, pursuant to SC-N-9, the contractor(s) would perform noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM) and would conduct noise compliance monitoring to ensure compliance with Standard Conditions. After implementation of the Standard Conditions

[23] United Muffler Corp, https://www.unitedmuffler.com/; Auto-jet Muffler Corp, http://mandrelbending-tubefabrication.com/index.php; AP Exhaust Technologies, http://www.apexhaust.com/.

[24] City of Los Angeles, L.A. CEQA Thresholds Guide, Your Resource for Preparing CEQA Analyses in Los Angeles, Exhibit I.1-2, (2006).

identified above, potential impacts with regard to construction noise would be reduced to less than less than significant. No mitigation or further study is required.

Offsite Construction Traffic Noise

Construction related vehicular traffic including hauling activities would generate higher noise levels to the receptors along the access routes (i.e., S. Hooper Ave. and E. 41st St.). Per the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM), Version 2.5, the noise level of one heavy truck passing by at 35 miles per hour (mph) would be 45 dBA at 50 feet. The maximum number of haul trucks accessing the Project Site each day for the Soil Removal Phase would be 50 trucks. Based on this information, it was assumed that the maximum number of haul trucks entering and exiting the site during a peak hour would be seven. The noise level from five heavy trucks passing by during a peak hour would be 58 dBA at 50 feet, which would not exceed the ambient noise level (55 dBA) plus 5 dBA threshold. Therefore, the offsite construction traffic noise impacts would be less than significant. No mitigation or further study is required.

5.1.2 Operational Noise

The Project would result in potentially significant impacts if there is a permanent increase of over 3 dBA in ambient noise levels within the Project vicinity above existing levels without the Project. To increase the future ambient noise by 3 dBA, in general, it would be necessary to double the number of students, double the school activities over existing conditions, or double the traffic volumes. Project implementation would not provide for an increase in the number of students attending the school, staff required to operate the school, or traffic volumes. In addition, new constructed structures would have stationary noise sources, such as a generator or air conditioning units. Because the Project would comply with SC-N-4, the impact would be less than significant. Additionally, LAUSD considers exterior areas (playgrounds, playfields, lunch shelters) to be conditionally acceptable in a noise environment of 67 dBA Leq, while interior areas should achieve a noise environment of 45 dBA Leq.

The future ambient noise at the proposed Project Site would be dominated by roadway traffic on 33rd Street, Hooper Avenue, 41st Street, and Compton Avenue. The Project includes the development of exterior areas, such as baseball/softball field, tennis courts and basketball courts, and new classroom buildings, which could result in a significant impact. However, the Project requires compliance with the Program EIR Standard Conditions, SC-N-1 and SC-N-2, and the impact would be considered less than significant.

5.2 Ground-Borne Vibration

Impact 2: The Project would not expose persons to, or generate, excessive ground-borne vibration or ground-borne noise levels. (Less Than Significant with Mitigation)

Ground-borne vibration would be generated from the operation of heavy construction equipment at the Project Site, which could potentially affect the existing sensitive land uses surrounding the site, as well as the students on the campus. Upon completion of construction there would be no operational sources of ground-borne vibration.

Construction equipment could be close to the residential structures in the Project vicinity. However, it should be noted that the existing structures on campus would be closer than those residential structures. The construction equipment could be as close as 10 feet from existing structures.

Ground-borne vibration levels resulting from construction activities at the Project Site were estimated using data published by the Federal Transit Administration (FTA) in its Transit Noise and Vibration Impact Assessment (2006) document. The Program EIR has adopted vibration standards that are used to evaluate potential human annoyance (as 0.1 PPV in/sec and 78VdB) and architectural damage (as 0.2 in/sec) impacts related to construction activities, which are shown in **Tables 3** and **4**, respectively.

The various peak particle velocity (PPV) expressed in inches per second (in/sec) and root mean square (RMS) velocity expressed in VdB levels for the general construction equipment that would operate during the construction of the proposed Project are identified in **Table 9**. Note that it is assumed that impact activities, such as pile driving, would not be used for this proposed Project while school is in session.

TABLE 9
VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT

Equipment	Approximate PPV (in/sec) at 25 feet	Approximate RMS (VdB) at 25 feet
Large Bulldozer	0.089	87
Loaded Trucks	0.076	86
Jackhammer	0.035	79
Small Bulldozer	0.003	58

SOURCE: FTA, 2006.

Structure Damage

Construction activities associated with the proposed Project would have the potential to impact the existing school buildings and surrounding offsite structures. In order to exceed 0.2 in/sec PPV, a large bulldozer needs to be as close as 15 feet from the onsite or offsite structures.

District contractors work closely with schools and nearby land uses (per SC-N-5) to try to avoid heavy noise and vibration activities directly adjacent to noise and vibration-sensitive land uses. However, for existing school buildings, the construction equipment could be located within 15 feet of structures. However, the proposed Project would require compliance with SC-N- 6 through SC-N-8, which would require that activities that have the potential to result in significant vibration are minimized or avoided through alternative methods of demolition and construction if feasible and necessary. Therefore, impacts would be less than significant with the incorporation of SC-N-6 through SC-N-8.

The offsite structures are considered to be non-engineered timber structure. The vibration impact threshold for the offsite structures would also be 0.2 in/sec PPV.[25] The PPV level of a large bulldozer at 25 feet would be 0.089 in/sec PPV. In order to exceed 0.2 in/sec PPV, a large bulldozer needs to be as close as 15 feet from the offsite structures. The closest offsite structure to the Project Site is located 50 feet away. Therefore, there would be no offsite structures within 15 feet of construction and impacts would be less than significant. No mitigation or further study is required.

Human Annoyance

Construction-related vibration would be a temporary disturbance that could annoy people within a building. The vibration impact threshold for human annoyance at a residential structure is described in the Program EIR as the 78 VdB.[26] As previously noted, the nearest offsite residential structures may be within 25 feet of the certain equipment and activities during construction. In order to exceed 78 VdB, a large bulldozer would need to be located as close as 50 feet from the structures. Campus buildings would be located within 15 feet of potential construction activity and the closest residential structures could be within 45 feet of Interim Housing Phase and Comp Mod Phase 3.

Construction-related vibration could annoy students onsite and residents within the properties surrounding the campus (particularly those to the north of the campus). However, this annoyance would be temporary and would only be associated with certain aspects of the construction. While various stages of construction have the potential to result in varied levels of vibration, the proposed Project would require compliance with SC-N-5 which would reduce impacts to less than significant. No mitigation or further study is required.

Operation

Once construction activities have been completed, there would be no sources of vibration at the Project Site. Therefore, no impact would occur.

5.3 Permanent Increase in Ambient Noise Levels

Impact 3: The Project would not result in a substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project. (Less Than Significant)

As previously described in Impact 1, the proposed Project would not result in a 3 dBA increase in noise over existing ambient conditions. This impact would be less than significant and no mitigation or further study is required.

[25] Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

[26] Los Angeles Unified School District. 2015. School Upgrade Program Final Environmental Impact Report, http://achieve.lausd.net/ceqa. Adopted by the Board of Education on November 10, 2015.

5.4 Temporary Increase in Ambient Noise Levels

Impact 4: The Project would not result in a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project. (Less Than Significant)

As previously described in Impact 1, the proposed Project would be expected to result in temporary increases in ambient noise levels during construction. However, implementation of SC-N-1 and SC-N-5 through SC-N-9 would reduce noise levels at receptors and impacts would be less than significant. No mitigation or further study is required.

5.5 Airport-related Excessive Noise Levels

Impact 5: The Project is not located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, thus, the Project would not expose people residing or working in the Project area to excessive noise levels. (No Impact)

The proposed Project is not located within an airport land use plan or within 2 miles of a public airport or public use airport. The nearest public airport (LAX) is approximately 9 miles away from the Project Site. Therefore, no airport land use plan-related impacts would occur. No mitigation or further study is required.

Impact 6: The Project is not within the vicinity of a private airstrip, thus, the Project would not expose people residing or working in the Project area to excessive noise levels. (No Impact)

There is no private airstrip within 10 miles of the Project Site. Therefore, no airstrip-related noise impacts would occur. No mitigation or further study is required.

SECTION 6
Cumulative Impacts

As an active school campus, Jefferson HS is anticipated to have ongoing maintenance activities that will occur throughout the campus. However, none would be anticipated to have the same scope or scale associated with this Project. In addition, the District has more than 22 comprehensive modernization, upgrade, or new development projects planned for campuses located within the District's boundaries but none of these would occur within one mile of the campus. Based on a review of environmental documents from the City of Los Angeles Department of City Planning,[27] there are two related projects near the Project Site located at 1011 E Adams Boulevard, approximately 2,400 feet to the northwest and 2170 S Compton Avenue, approximately 650 feet to the northeast. Therefore, since the 2006 City of Los Angeles CEQA Thresholds Guide (LA CEQA Thresholds Guide) establishes the screening criterion of 500 feet for noise sensitive uses, the cumulative construction and operational noise and vibration impacts would be less than significant.

[27] Based on a review conducted on April 17, 2018 of environmental impact reports (EIRs) from the City of Los Angeles Department of City Planning website (http://cityplanning.lacity.org/). The related projects listed above were identified from the related projects figure in the Chapter 3 of the EIR for the 668 S Alameda Project (refer to: https://planning.lacity.org/eir/668SoAlamedaStreet/Deir/668%20S%20Alameda%20%20Street%20Draft%20EIR.html).

SECTION 7
Summary of Results

Construction noise and vibration levels associated with the Project would not exceed the significance threshold at the onsite and offsite sensitive receptors with the implementation of mitigation measures as well as complying with the Program EIR Standard Conditions. Therefore, construction noise and vibration impacts would be less than significant.

Operation of the Project would not expose persons to, or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies with the compliance of the Program EIR Standard Conditions. Therefore, operation noise impacts would be less than significant.

As discussed above, the Project construction and operation would not result in a substantial temporary or permanent increase in ambient noise and vibration levels at offsite sensitive receptor locations. Therefore, impacts would be less than significant.

SECTION 8
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APPENDIX A

Census Data

Welcome to QuickFacts

Los Angeles city, California

QuickFacts provides statistics for all states and counties, and for cities and towns with a population of 5,000 or more.

QuickFacts | **Browse more datasets (/quickfacts/quicklinks.php?fips=0644000)**

People	**Los Angeles city, California**
Population	
Population estimates, July 1, 2016, (V2016)	NA
Population estimates, July 1, 2015, (V2015)	3,971,883
Population estimates base, April 1, 2010, (V2016)	NA
Population estimates base, April 1, 2010, (V2015)	3,792,662
Population, percent change - April 1, 2010 (estimates base) to July 1, 2016, (V2016)	NA
Population, percent change - April 1, 2010 (estimates base) to July 1, 2015, (V2015)	4.7%
Population, Census, April 1, 2010	3,792,621
Age and Sex	
Persons under 5 years, percent, July 1, 2015, (V2015)	X
Persons under 5 years, percent, April 1, 2010	6.6%
Persons under 18 years, percent, July 1, 2015, (V2015)	X
Persons under 18 years, percent, April 1, 2010	23.1%
Persons 65 years and over, percent, July 1, 2015, (V2015)	X
Persons 65 years and over, percent, April 1, 2010	10.5%
Female persons, percent, July 1, 2015, (V2015)	X
Female persons, percent, April 1, 2010	50.2%
Race and Hispanic Origin	
White alone, percent, July 1, 2015, (V2015) (a)	X
White alone, percent, April 1, 2010 (a)	49.8%
Black or African American alone, percent, July 1, 2015, (V2015) (a)	X
Black or African American alone, percent, April 1, 2010 (a)	9.6%
American Indian and Alaska Native alone, percent, July 1, 2015, (V2015) (a)	X
American Indian and Alaska Native alone, percent, April 1, 2010 (a)	0.7%
Asian alone, percent, July 1, 2015, (V2015) (a)	X
Asian alone, percent, April 1, 2010 (a)	11.3%
Native Hawaiian and Other Pacific Islander alone, percent, July 1, 2015, (V2015) (a)	X
Native Hawaiian and Other Pacific Islander alone, percent, April 1, 2010 (a)	0.1%
Two or More Races, percent, July 1, 2015, (V2015)	X
Two or More Races, percent, April 1, 2010	4.6%
Hispanic or Latino, percent, July 1, 2015, (V2015) (b)	X
Hispanic or Latino, percent, April 1, 2010 (b)	48.5%
White alone, not Hispanic or Latino, percent, July 1, 2015, (V2015)	X
White alone, not Hispanic or Latino, percent, April 1, 2010	28.7%
Population Characteristics	
Veterans, 2011-2015	97,236
Foreign born persons, percent, 2011-2015	38.2%
Housing	
Housing units, July 1, 2015, (V2015)	X
Housing units, April 1, 2010	1,413,995
Owner-occupied housing unit rate, 2011-2015	36.8%
Median value of owner-occupied housing units, 2011-2015	$471,000
Median selected monthly owner costs -with a mortgage, 2011-2015	$2,454
Median selected monthly owner costs -without a mortgage, 2011-2015	$620
Median gross rent, 2011-2015	$1,209
Building permits, 2015	X
Families and Living Arrangements	

Households, 2011-2015	1,342,761
Persons per household, 2011-2015	2.84
Living in same house 1 year ago, percent of persons age 1 year+, 2011-2015	86.0%
Language other than English spoken at home, percent of persons age 5 years+, 2011-2015	60.0%

Education

High school graduate or higher, percent of persons age 25 years+, 2011-2015	75.5%
Bachelor's degree or higher, percent of persons age 25 years+, 2011-2015	32.0%

Health

With a disability, under age 65 years, percent, 2011-2015	6.2%
Persons without health insurance, under age 65 years, percent	⚠ 23.5%

⚠ *Source: 2015 American Community Survey (ACS), 5-year estimates. Estimates are not comparable to other geographic levels of health estimates.*

Economy

In civilian labor force, total, percent of population age 16 years+, 2011-2015	66.2%
In civilian labor force, female, percent of population age 16 years+, 2011-2015	59.4%
Total accommodation and food services sales, 2012 ($1,000) (c)	9,295,589
Total health care and social assistance receipts/revenue, 2012 ($1,000) (c)	29,830,223
Total manufacturers shipments, 2012 ($1,000) (c)	43,502,545
Total merchant wholesaler sales, 2012 ($1,000) (c)	63,834,855
Total retail sales, 2012 ($1,000) (c)	40,156,864
Total retail sales per capita, 2012 (c)	$10,409

Transportation

Mean travel time to work (minutes), workers age 16 years+, 2011-2015	30.1

Income and Poverty

Median household income (in 2015 dollars), 2011-2015	$50,205
Per capita income in past 12 months (in 2015 dollars), 2011-2015	$28,761
Persons in poverty, percent	⚠ 22.1%

⚠ *Source: 2015 American Community Survey (ACS), 5-year estimates. Estimates are not comparable to other geographic levels of poverty estimates.*

Businesses	**Los Angeles city, California**
Total employer establishments, 2014	X
Total employment, 2014	X
Total annual payroll, 2014 ($1,000)	X
Total employment, percent change, 2013-2014	X
Total nonemployer establishments, 2014	X
All firms, 2012	497,999
Men-owned firms, 2012	262,460
Women-owned firms, 2012	192,358
Minority-owned firms, 2012	247,710
Nonminority-owned firms, 2012	235,220
Veteran-owned firms, 2012	30,581
Nonveteran-owned firms, 2012	452,817

Geography	**Los Angeles city, California**
Population per square mile, 2010	8,092.3
Land area in square miles, 2010	468.67
Metropolitan or Micropolitan Statistical Area	None
FIPS Code	0644000

Export to CSV (/quickfacts/download.php?fips=0644000&type=csv)

⚠ This geographic level of poverty and health estimates are not comparable to other geographic levels of these estimates

Some estimates presented here come from sample data, and thus have sampling errors that may render some apparent differences between geographies statistically indistinguishable. Click the Quick Info icon to the left of each row in TABLE view to learn about sampling error.

The vintage year (e.g., V2015) refers to the final year of the series (2010 thru 2015).
Different vintage years of estimates are not comparable.

(a) Includes persons reporting only one race
(b) Hispanics may be of any race, so also are included in applicable race categories
(c) Economic Census - Puerto Rico data are not comparable to U.S. Economic Census data

D Suppressed to avoid disclosure of confidential information
F Fewer than 25 firms
FN Footnote on this item in place of data
NA Not available
S Suppressed; does not meet publication standards
X Not applicable
Z Value greater than zero but less than half unit of measure shown

Up one level

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Export Codes (//www.census.gov/topics/international-trade/schedule-b.html)

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APPENDIX B

Noise Calculation Worksheets

LAUSD Jefferson

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					North					West					South					East				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Soil Removal				***To Building 11***		***84***					***70***					***62***					***61***					***75***		
Rubber Tired Loaders	1	79	40%	25	85	81	84	0	150	69	65	68	0	370	62	58	61	0	430	60	56	59	0	70	76	72	75	0
Rubber Tired Loaders	1	79	40%	25	85	81	84	0	150	69	65	68	0	370	62	58	61	0	430	60	56	59	0	70	76	72	75	0
Tractor/Loader/Backhoes	1	78	40%	70	75	71	74	0	245	64	60	63	0	455	59	55	58	0	515	58	54	57	0	205	66	62	65	0
Tractor/Loader/Backhoes	1	78	40%	70	75	71	74	0	245	64	60	63	0	455	59	55	58	0	515	58	54	57	0	205	66	62	65	0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Source for Distance to nearest classrooms:

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LAUSD Jefferson

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo			***To Homemaking Building***			***87***					***80***					***66***					***70***					***65***		
Concrete/Industrial Saws	1	90	20%	50	90	83	86	0	100	84	77	80	0	600	68	61	64	0	360	73	66	69	0	650	68	61	64	0
Other Equipment	1	85	50%	100	79	76	79	0	285	70	67	70	0	785	61	58	61	0	470	66	63	66	0	880	60	57	60	0
Excavator	1	81	40%	60	79	75	78	0	175	70	66	69	0	715	58	54	57	0	415	63	59	62	0	785	57	53	56	0
Other Equipment	1	85	50%	50	85	82	85	0	100	79	76	79	0	600	63	60	63	0	360	68	65	68	0	650	63	60	63	0
Rubber Tired Dozer	1	82	40%	100	76	72	75	0	285	67	63	66	0	785	58	54	57	0	470	63	59	62	0	880	57	53	56	0
Grading			***To Homemaking Building***			***87***					***78***					***61***					***86***					***60***		
Graders	1	85	40%	25	91	87	90	0	75	81	77	80	0	600	63	59	62	0	30	89	85	88	0	650	63	59	62	0
Rubber Tired Dozer	1	82	40%	60	80	76	79	0	185	71	67	70	0	715	59	55	58	0	170	71	67	70	0	785	58	54	57	0
Tractor/Loader/Backhoes	1	78	40%	100	72	68	71	0	285	63	59	62	0	785	54	50	53	0	280	63	59	62	0	880	53	49	52	0
Construction			***To Homemaking Building***			***87***					***77***					***60***					***64***					***59***		
Cranes	1	81	40%	25	87	83	86	0	75	77	73	76	0	600	59	55	58	0	360	64	60	63	0	650	59	55	58	0
Forklifts	1	75	20%	100	69	62	65	0	285	60	53	56	0	785	51	44	47	0	470	56	49	52	0	880	50	43	46	0
Generator Sets	1	81	50%	25	87	84	87	0	75	77	74	77	0	600	59	56	59	0	360	64	61	64	0	650	59	56	59	0
Tractor/Loader/Backhoes	1	78	40%	60	76	72	75	0	185	67	63	66	0	715	55	51	54	0	415	60	56	59	0	785	54	50	53	0
Welders	1	74	40%	100	68	64	67	0	285	59	55	58	0	785	50	46	49	0	470	55	51	54	0	880	49	45	48	0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Source for Distance to nearest classrooms:

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LAUSD Jefferson

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo			***To Mechanical Arts Building***			*79*					*80*					*67*					*80*					*63*		
Concrete/Industrial Saws	1	90	20%	115	83	76	79	0	100	84	77	80	0	485	70	63	66	0	100	84	77	80	0	750	66	59	62	0
Other Equipment	1	85	50%	340	68	65	68	0	290	70	67	70	0	685	62	59	62	0	200	73	70	73	0	950	59	56	59	0
Excavator	1	81	40%	500	60	56	59	1	350	63	59	62	1	850	55	51	54	1	450	61	57	60	1	1100	53	49	52	1
Other Equipment	1	85	50%	115	78	75	78	0	100	79	76	79	0	485	65	62	65	0	100	79	76	79	0	750	61	58	61	0
Rubber Tired Dozer	1	82	40%	340	65	61	64	0	290	67	63	66	0	685	59	55	58	0	450	63	59	62	0	950	56	52	55	0
Grading			***To Mechanical Arts Building***			*74*					*75*					*62*					*81*					*59*		
Graders	1	85	40%	115	78	74	77	0	100	79	75	78	0	485	65	61	64	0	50	85	81	84	0	750	61	57	60	0
Rubber Tired Dozer	1	82	40%	340	65	61	64	0	290	67	63	66	0	685	59	55	58	0	200	70	66	69	0	950	56	52	55	0
Tractor/Loader/Backhoes	1	78	40%	500	58	54	57	0	350	61	57	60	0	850	53	49	52	0	450	59	55	58	0	1100	51	47	50	0
Construction			***To Mechanical Arts Building***			*73*					*75*					*61*					*81*					*58*		
Cranes	1	81	40%	115	74	70	73	0	100	75	71	74	0	485	61	57	60	0	50	81	77	80	0	750	57	53	56	0
Forklifts	1	75	20%	340	58	51	54	0	290	60	53	56	0	685	52	45	48	0	200	63	56	59	0	950	49	42	45	0
Generator Sets	1	81	50%	115	74	71	74	0	100	75	72	75	0	485	61	58	61	0	50	81	78	81	0	750	57	54	57	0
Tractor/Loader/Backhoes	1	78	40%	340	61	57	60	0	290	63	59	62	0	685	55	51	54	0	200	66	62	65	0	950	52	48	51	0
Welders	1	74	40%	500	54	50	53	0	350	57	53	56	0	850	49	45	48	0	450	55	51	54	0	1100	47	43	46	0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Source for Distance to nearest classrooms:

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LAUSD Jefferson

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo			***To Industrial Arts Building***			***76***					***78***					***68***					***70***					***67***		
Concrete/Industrial Saws	1	90	20%	160	80	73	76	0	130	82	75	78	0	420	72	65	68	0	360	73	66	69	0	480	70	63	66	0
Other Equipment	1	85	50%	280	70	67	70	0	400	67	64	67	0	550	64	61	64	0	525	65	62	65	0	650	63	60	63	0
Excavator	1	81	40%	370	64	60	63	0	600	59	55	58	0	720	58	54	57	0	730	58	54	57	0	750	57	53	56	0
Rubber Tired Dozer	1	82	40%	280	66	62	65	1	400	63	59	62	1	550	60	56	59	1	525	61	57	60	1	650	59	55	58	1
Other Equipment	1	85	50%	160	75	72	75	0	130	77	74	77	0	420	67	64	67	0	360	68	65	68	0	480	65	62	65	0
Grading			***To Industrial Arts Building***			***72***					***73***					***64***					***65***					***63***		
Graders	1	85	40%	160	75	71	74	0	130	77	73	76	0	420	67	63	66	0	360	68	64	67	0	480	65	61	64	0
Rubber Tired Dozer	1	82	40%	280	67	63	66	0	400	64	60	63	0	550	61	57	60	0	525	62	58	61	0	650	60	56	59	0
Tractor/Loader/Backhoes	1	78	40%	370	61	57	60	0	600	56	52	55	0	720	55	51	54	0	730	55	51	54	0	750	54	50	53	0
Construction			***To Industrial Arts Building***			***71***					***72***					***63***					***64***					***62***		
Cranes	1	81	40%	160	71	67	70	0	130	73	69	72	0	420	63	59	62	0	360	64	60	63	0	480	61	57	60	0
Forklifts	1	75	20%	280	60	53	56	0	400	57	50	53	0	550	54	47	50	0	525	55	48	51	0	650	53	46	49	0
Generator Sets	1	81	50%	160	71	68	71	0	130	73	70	73	0	420	63	60	63	0	360	64	61	64	0	480	61	58	61	0
Tractor/Loader/Backhoes	1	78	40%	280	63	59	62	0	400	60	56	59	0	550	57	53	56	0	525	58	54	57	0	650	56	52	55	0
Welders	1	74	40%	370	57	53	56	0	600	52	48	51	0	720	51	47	50	0	730	51	47	50	0	750	50	46	49	0
Paving			***To Industrial Arts Building***			***64***					***65***					***57***					***58***					***56***		
Pavers	1	77	50%	270	62	59	62	0	400	59	56	59	0	550	56	53	56	0	525	57	54	57	0	650	55	52	55	0
Rollers	1	80	20%	160	70	63	66	0	130	72	65	68	0	420	62	55	58	0	360	63	56	59	0	480	60	53	56	0
Arch Coating			***To Industrial Arts Building***			***65***					***67***					***57***					***58***					***55***		
Air Compressor	1	78	50%	160	68	65	68	0	130	70	67	70	0	420	60	57	60	0	360	61	58	61	0	480	58	55	58	0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Source for Distance to nearest classrooms:

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LAUSD Jefferson

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo				***To Science & Classroom Building***		***86***					***67***					***80***					***67***					***74***		
Concrete/Industrial Saws	1	90	20%	50	90	83	86	0	480	70	63	66	0	100	84	77	80	0	500	70	63	66	0	200	78	71	74	0
Other Equipment	1	85	50%	150	75	72	75	0	600	63	60	63	0	200	73	70	73	0	730	62	59	62	0	500	65	62	65	0
Rubber Tired Dozer	1	82	40%	300	66	62	65	0	800	58	54	57	0	300	66	62	65	0	1100	55	51	54	0	800	58	54	57	0
Excavator	1	81	40%	150	71	67	70	0	600	59	55	58	0	200	69	65	68	0	730	58	54	57	0	500	61	57	60	0
Other Equipment	1	85	50%	50	85	82	85	0	480	65	62	65	0	100	79	76	79	0	500	65	62	65	0	200	73	70	73	0
Grading				***To Science & Classroom Building***		***87***					***63***					***81***					***62***					***69***		
Graders	1	85	40%	25	91	87	90	0	480	65	61	64	0	50	85	81	84	0	500	65	61	64	0	200	73	69	72	0
Rubber Tired Dozer	1	82	40%	150	72	68	71	0	600	60	56	59	0	200	70	66	69	0	730	59	55	58	0	500	62	58	61	0
Tractor/Loader/Backhoes	1	78	40%	300	62	58	61	0	800	54	50	53	0	300	62	58	61	0	1100	51	47	50	0	800	54	50	53	0
Construction				***To Science & Classroom Building***		***87***					***62***					***81***					***61***					***69***		
Cranes	1	81	40%	25	87	83	86	0	480	61	57	60	0	50	81	77	80	0	500	61	57	60	0	200	69	65	68	0
Forklifts	1	75	20%	150	65	58	61	0	600	53	46	49	0	200	63	56	59	0	730	52	45	48	0	500	55	48	51	0
Generator Sets	1	81	50%	25	87	84	87	0	480	61	58	61	0	50	81	78	81	0	500	61	58	61	0	200	69	66	69	0
Tractor/Loader/Backhoes	1	78	40%	150	68	64	67	0	600	56	52	55	0	200	66	62	65	0	730	55	51	54	0	500	58	54	57	0
Welders	1	74	40%	300	58	54	57	0	800	50	46	49	0	300	58	54	57	0	1100	47	43	46	0	800	50	46	49	0
Paving				***To Science & Classroom Building***		***79***					***56***					***73***					***55***					***62***		
Pavers	1	77	50%	150	67	64	67	0	600	55	52	55	0	200	65	62	65	0	730	54	51	54	0	500	57	54	57	0
Rollers	1	80	20%	25	86	79	82	0	480	60	53	56	0	50	80	73	76	0	500	60	53	56	0	200	68	61	64	0
Arch Coating				***To Science & Classroom Building***		***81***					***55***					***75***					***55***					***63***		
Air Compressor	1	78	50%	25	84	81	84	0	480	58	55	58	0	50	78	75	78	0	500	58	55	58	0	200	66	63	66	0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Source for Distance to nearest classrooms:

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LAUSD Jefferson

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo			***To 3 Story Classroom Building***			***86***					***80***					***80***					***80***					***64***		
Concrete/Industrial Saws	1	90	20%	50	90	83	86	0	100	84	77	80	0	100	84	77	80	0	100	84	77	80	0	700	67	60	63	0
Other Equipment	1	85	50%	350	68	65	68	0	250	71	68	71	0	700	62	59	62	0	275	70	67	70	0	950	59	56	59	0
Excavator	1	81	40%	680	58	54	57	0	450	62	58	61	0	900	56	52	55	0	475	61	57	60	0	1100	54	50	53	0
Other Equipment	1	85	50%	50	85	82	85	0	100	79	76	79	0	100	79	76	79	0	100	79	76	79	0	700	62	59	62	0
Rubber Tired Dozer	1	82	40%	350	65	61	64	0	250	68	64	67	0	700	59	55	58	0	275	67	63	66	0	950	56	52	55	0
Grading			***To 3 Story Classroom Building***			***81***					***81***					***81***					***81***					***60***		
Graders	1	85	40%	50	85	81	84	0	50	85	81	84	0	50	85	81	84	0	50	85	81	84	0	700	62	58	61	0
Rubber Tired Dozer	1	82	40%	350	65	61	64	0	250	68	64	67	0	700	59	55	58	0	275	67	63	66	0	900	57	53	56	0
Tractor/Loader/Backhoes	2	78	40%	680	58	54	57	0	450	62	58	61	0	900	56	52	55	0	475	61	57	60	0	1100	54	50	53	0
Construction			***To 3 Story Classroom Building***			***68***					***68***					***68***					***74***					***47***		
Forklifts	1	75	20%	50	75	68	71	0	50	75	68	71	0	50	75	68	71	0	25	81	74	77	0	700	52	45	48	0
Forklifts	1	75	20%	350	58	51	54	0	250	61	54	57	0	700	52	45	48	0	275	60	53	56	0	950	49	42	45	0
Paving			***To 3 Story Classroom Building***			***73***					***73***					***73***					***79***					***52***		
Pavers	1	77	50%	350	60	57	60	0	250	63	60	63	0	700	54	51	54	0	275	62	59	62	0	950	51	48	51	0
Rollers	1	80	20%	50	80	73	76	0	50	80	73	76	0	50	80	73	76	0	25	86	79	82	0	700	57	50	53	0

Source for Ref. Noise Levels: FHWA RCNM, 2006

Source for Distance to nearest classrooms:

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LAUSD Jefferson with Noise Barriers, Noise Absorptive Equipment Mufflers, and Equipment Restrictions

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					North					West					South					East				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Soil Removal				***To Building 11***		***65***					***50***					***43***					***42***					***56***		
Rubber Tired Loaders	1	79	40%	25	65	61	64	20	150	49	45	48	20	370	42	38	41	20	430	40	36	39	20	70	56	52	55	20
Rubber Tired Loaders	1	79	40%	25	65	61	64	20	150	49	45	48	20	370	42	38	41	20	430	40	36	39	20	70	56	52	55	20
Tractor/Loader/Backhoes	1	80	40%	70	57	53	56	20	245	46	42	45	20	455	41	37	40	20	515	40	36	39	20	205	48	44	47	20
Tractor/Loader/Backhoes	1	80	40%	70	57	53	56	20	245	46	42	45	20	455	41	37	40	20	515	40	36	39	20	205	48	44	47	20

Source for Ref. Noise Levels: FHWA RCNM, 2005

Source for Distance to nearest classrooms:

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LAUSD Jefferson with Noise Barriers, Noise Absorptive Equipment Mufflers, and Equipment Restrictions

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo			***To Homemaking Building***			***66***					***59***					***45***					***49***					***44***		
Concrete/Industrial Saws	1	90	20%	50	69	62	65	21	100	63	56	59	21	600	47	40	43	21	360	52	45	48	21	650	47	40	43	21
Other Equipment	1	85	50%	100	58	55	58	21	285	49	46	49	21	785	40	37	40	21	470	45	42	45	21	880	39	36	39	21
Excavator	1	81	40%	60	58	54	57	21	175	49	45	48	21	715	37	33	36	21	415	42	38	41	21	785	36	32	35	21
Other Equipment	1	85	50%	50	64	61	64	21	100	58	55	58	21	600	42	39	42	21	360	47	44	47	21	650	42	39	42	21
Rubber Tired Dozer	1	82	40%	100	55	51	54	21	285	46	42	45	21	785	37	33	36	21	470	42	38	41	21	880	36	32	35	21
Grading			***To Homemaking Building***			***66***					***57***					***40***					***60***					***40***		
Graders	1	85	40%	25	70	66	69	21	75	60	56	59	21	600	42	38	41	21	50	64	60	63	21	650	42	38	41	21
Rubber Tired Dozer	1	82	40%	60	59	55	58	21	185	50	46	49	21	715	38	34	37	21	170	50	46	49	21	785	37	33	36	21
Tractor/Loader/Backhoes	1	80	40%	100	53	49	52	21	285	44	40	43	21	785	35	31	34	21	280	44	40	43	21	880	34	30	33	21
Construction			***To Homemaking Building***			***66***					***56***					***39***					***44***					***38***		
Cranes	1	81	40%	25	66	62	65	21	75	56	52	55	21	600	38	34	37	21	360	43	39	42	21	650	38	34	37	21
Forklifts	1	75	20%	100	48	41	44	21	285	39	32	35	21	785	30	23	26	21	470	35	28	31	21	880	29	22	25	21
Generator Sets	1	81	50%	25	66	63	66	21	75	56	53	56	21	600	38	35	38	21	360	43	40	43	21	650	38	35	38	21
Tractor/Loader/Backhoes	1	80	40%	60	57	53	56	21	185	48	44	47	21	715	36	32	35	21	415	41	37	40	21	785	35	31	34	21
Welders	1	74	40%	100	47	43	46	21	285	38	34	37	21	785	29	25	28	21	470	34	30	33	21	880	28	24	27	21

Source for Ref. Noise Levels: FHWA RCNM, 2005

Source for Distance to nearest classrooms:

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LAUSD Jefferson with Noise Barriers, Noise Absorptive Equipment Mufflers, and Equipment Restrictions

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo			***To Mechanical Arts Building***			***58***					***59***					***46***					***59***					***42***		
Concrete/Industrial Saws	1	90	20%	115	62	55	58	21	100	63	56	59	21	485	49	42	45	21	100	63	56	59	21	750	45	38	41	21
Other Equipment	1	85	50%	340	47	44	47	21	290	49	46	49	21	685	41	38	41	21	200	52	49	52	21	950	38	35	38	21
Excavator	1	81	40%	500	40	36	39	21	350	43	39	42	21	850	35	31	34	21	450	41	37	40	21	1100	33	29	32	21
Other Equipment	1	85	50%	115	57	54	57	21	100	58	55	58	21	485	44	41	44	21	100	58	55	58	21	750	40	37	40	21
Rubber Tired Dozer	1	82	40%	340	44	40	43	21	290	46	42	45	21	685	38	34	37	21	450	42	38	41	21	950	35	31	34	21
Grading			***To Mechanical Arts Building***			***53***					***54***					***42***					***60***					***38***		
Graders	1	85	40%	115	57	53	56	21	100	58	54	57	21	485	44	40	43	21	50	64	60	63	21	750	40	36	39	21
Rubber Tired Dozer	1	82	40%	340	44	40	43	21	290	46	42	45	21	685	38	34	37	21	200	49	45	48	21	950	35	31	34	21
Tractor/Loader/Backhoes	1	80	40%	500	39	35	38	21	350	42	38	41	21	850	34	30	33	21	450	40	36	39	21	1100	32	28	31	21
Construction			***To Mechanical Arts Building***			***53***					***54***					***41***					***60***					***37***		
Cranes	1	81	40%	115	53	49	52	21	100	54	50	53	21	485	40	36	39	21	50	60	56	59	21	750	36	32	35	21
Forklifts	1	75	20%	340	37	30	33	21	290	39	32	35	21	685	31	24	27	21	200	42	35	38	21	950	28	21	24	21
Generator Sets	1	81	50%	115	53	50	53	21	100	54	51	54	21	485	40	37	40	21	50	60	57	60	21	750	36	33	36	21
Tractor/Loader/Backhoes	1	80	40%	340	42	38	41	21	290	44	40	43	21	685	36	32	35	21	200	47	43	46	21	950	33	29	32	21
Welders	1	74	40%	500	33	29	32	21	350	36	32	35	21	850	28	24	27	21	450	34	30	33	21	1100	26	22	25	21

Source for Ref. Noise Levels: FHWA RCNM, 2005

Source for Distance to nearest classrooms:

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LAUSD Jefferson with Noise Barriers, Noise Absorptive Equipment Mufflers, and Equipment Restrictions

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo			***To Industrial Arts Building***			***55***					***57***					***48***					***49***					***46***		
Concrete/Industrial Saws	1	90	20%	160	59	52	55	21	130	61	54	57	21	420	51	44	47	21	360	52	45	48	21	480	49	42	45	21
Other Equipment	1	85	50%	280	49	46	49	21	400	46	43	46	21	550	43	40	43	21	525	44	41	44	21	650	42	39	42	21
Excavator	1	81	40%	370	43	39	42	21	600	38	34	37	21	720	37	33	36	21	730	37	33	36	21	750	36	32	35	21
Rubber Tired Dozer	1	82	40%	280	46	42	45	21	400	43	39	42	21	550	40	36	39	21	525	41	37	40	21	650	39	35	38	21
Other Equipment	1	85	50%	160	54	51	54	21	130	56	53	56	21	420	46	43	46	21	360	47	44	47	21	480	44	41	44	21
Grading			***To Industrial Arts Building***			***51***					***52***					***43***					***44***					***42***		
Graders	1	85	40%	160	54	50	53	21	130	56	52	55	21	420	46	42	45	21	360	47	43	46	21	480	44	40	43	21
Rubber Tired Dozer	1	82	40%	280	46	42	45	21	400	43	39	42	21	550	40	36	39	21	525	41	37	40	21	650	39	35	38	21
Tractor/Loader/Backhoes	1	80	40%	370	42	38	41	21	600	37	33	36	21	720	36	32	35	21	730	36	32	35	21	750	35	31	34	21
Construction			***To Industrial Arts Building***			***50***					***51***					***42***					***43***					***41***		
Cranes	1	81	40%	160	50	46	49	21	130	52	48	51	21	420	42	38	41	21	360	43	39	42	21	480	40	36	39	21
Forklifts	1	75	20%	280	39	32	35	21	400	36	29	32	21	550	33	26	29	21	525	34	27	30	21	650	32	25	28	21
Generator Sets	1	81	50%	160	50	47	50	21	130	52	49	52	21	420	42	39	42	21	360	43	40	43	21	480	40	37	40	21
Tractor/Loader/Backhoes	1	80	40%	280	44	40	43	21	400	41	37	40	21	550	38	34	37	21	525	39	35	38	21	650	37	33	36	21
Welders	1	74	40%	370	36	32	35	21	600	31	27	30	21	720	30	26	29	21	730	30	26	29	21	750	29	25	28	21
Paving			***To Industrial Arts Building***			***43***					***44***					***36***					***37***					***35***		
Pavers	1	77	50%	270	41	38	41	21	400	38	35	38	21	550	35	32	35	21	525	36	33	36	21	650	34	31	34	21
Rollers	1	80	20%	160	49	42	45	21	130	51	44	47	21	420	41	34	37	21	360	42	35	38	21	480	39	32	35	21
Arch Coating			***To Industrial Arts Building***			***44***					***46***					***36***					***37***					***34***		
Air Compressor	1	78	50%	160	47	44	47	21	130	49	46	49	21	420	39	36	39	21	360	40	37	40	21	480	37	34	37	21

Source for Ref. Noise Levels: FHWA RCNM, 2005

Source for Distance to nearest classrooms:

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LAUSD Jefferson with Noise Barriers, Noise Absorptive Equipment Mufflers, and Equipment Restrictions

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo				***To Science & Classroom Building***		***65***					***46***					***59***					***46***					***53***		
Concrete/Industrial Saws	1	90	20%	50	69	62	65	21	480	49	42	45	21	100	63	56	59	21	500	49	42	45	21	200	57	50	53	21
Other Equipment	1	85	50%	150	54	51	54	21	600	42	39	42	21	200	52	49	52	21	730	41	38	41	21	500	44	41	44	21
Rubber Tired Dozer	1	82	40%	300	45	41	44	21	800	37	33	36	21	300	45	41	44	21	1100	34	30	33	21	800	37	33	36	21
Excavator	1	81	40%	150	50	46	49	21	600	38	34	37	21	200	48	44	47	21	730	37	33	36	21	500	40	36	39	21
Other Equipment	1	85	50%	50	64	61	64	21	480	44	41	44	21	100	58	55	58	21	500	44	41	44	21	200	52	49	52	21
Grading				***To Science & Classroom Building***		***66***					***42***					***60***					***41***					***48***		
Graders	1	85	40%	25	70	66	69	21	480	44	40	43	21	50	64	60	63	21	500	44	40	43	21	200	52	48	51	21
Rubber Tired Dozer	1	82	40%	150	51	47	50	21	600	39	35	38	21	200	49	45	48	21	730	38	34	37	21	500	41	37	40	21
Tractor/Loader/Backhoes	1	80	40%	300	43	39	42	21	800	35	31	34	21	300	43	39	42	21	1100	32	28	31	21	800	35	31	34	21
Construction				***To Science & Classroom Building***		***66***					***41***					***60***					***40***					***48***		
Cranes	1	81	40%	25	66	62	65	21	480	40	36	39	21	50	60	56	59	21	500	40	36	39	21	200	48	44	47	21
Forklifts	1	75	20%	150	44	37	40	21	600	32	25	28	21	200	42	35	38	21	730	31	24	27	21	500	34	27	30	21
Generator Sets	1	81	50%	25	66	63	66	21	480	40	37	40	21	50	60	57	60	21	500	40	37	40	21	200	48	45	48	21
Tractor/Loader/Backhoes	1	80	40%	150	49	45	48	21	600	37	33	36	21	200	47	43	46	21	730	36	32	35	21	500	39	35	38	21
Welders	1	74	40%	300	37	33	36	21	800	29	25	28	21	300	37	33	36	21	1100	26	22	25	21	800	29	25	28	21
Paving				***To Science & Classroom Building***		***58***					***35***					***52***					***34***					***41***		
Pavers	1	77	50%	150	46	43	46	21	600	34	31	34	21	200	44	41	44	21	730	33	30	33	21	500	36	33	36	21
Rollers	1	80	20%	25	65	58	61	21	480	39	32	35	21	50	59	52	55	21	500	39	32	35	21	200	47	40	43	21
Arch Coating				***To Science & Classroom Building***		***60***					***34***					***54***					***34***					***42***		
Air Compressor	1	78	50%	25	63	60	63	21	480	37	34	37	21	50	57	54	57	21	500	37	34	37	21	200	45	42	45	21

Source for Ref. Noise Levels: FHWA RCNM, 2005

Source for Distance to nearest classrooms:

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LAUSD Jefferson with Noise Barriers, Noise Absorptive Equipment Mufflers, and Equipment Restrictions

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				Classroom					East					West					North					South				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo			***To 3 Story Classroom Building***			***65***					***59***					***59***					***59***					***43***		
Concrete/Industrial Saws	1	90	20%	50	69	62	65	21	100	63	56	59	21	100	63	56	59	21	100	63	56	59	21	700	46	39	42	21
Other Equipment	1	85	50%	350	47	44	47	21	250	50	47	50	21	700	41	38	41	21	275	49	46	49	21	950	38	35	38	21
Excavator	1	81	40%	680	37	33	36	21	450	41	37	40	21	900	35	31	34	21	475	40	36	39	21	1100	33	29	32	21
Other Equipment	1	85	50%	50	64	61	64	21	100	58	55	58	21	100	58	55	58	21	100	58	55	58	21	700	41	38	41	21
Rubber Tired Dozer	1	82	40%	350	44	40	43	21	250	47	43	46	21	700	38	34	37	21	275	46	42	45	21	950	35	31	34	21
Grading			***To 3 Story Classroom Building***			***60***					***60***					***60***					***60***					***39***		
Graders	1	85	40%	50	64	60	63	21	50	64	60	63	21	50	64	60	63	21	50	64	60	63	21	700	41	37	40	21
Rubber Tired Dozer	1	82	40%	350	44	40	43	21	250	47	43	46	21	700	38	34	37	21	275	46	42	45	21	900	36	32	35	21
Tractor/Loader/Backhoes	2	80	40%	680	39	35	38	21	450	43	39	42	21	900	37	33	36	21	475	42	38	41	21	1100	35	31	34	21
Construction			***To 3 Story Classroom Building***			***47***					***47***					***47***					***53***					***26***		
Forklifts	1	75	20%	50	54	47	50	21	50	54	47	50	21	50	54	47	50	21	25	60	53	56	21	700	31	24	27	21
Forklifts	1	75	20%	350	37	30	33	21	250	40	33	36	21	700	31	24	27	21	275	39	32	35	21	950	28	21	24	21
Paving			***To 3 Story Classroom Building***			***52***					***52***					***52***					***58***					***31***		
Pavers	1	77	50%	350	39	36	39	21	250	42	39	42	21	700	33	30	33	21	275	41	38	41	21	950	30	27	30	21
Rollers	1	80	20%	50	59	52	55	21	50	59	52	55	21	50	59	52	55	21	25	65	58	61	21	700	36	29	32	21

Source for Ref. Noise Levels: FHWA RCNM, 2005

Source for Distance to nearest classrooms:

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TRAFFIC NOISE ANALYSIS TOOL

Project Name: [Project Name Here]
Project Number: [Project Number Here]
Analysis Scenario: [Scenario Here, i.e., year, alternative]
Source of Traffic Volumes: [Source Here]

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
S. Hooper Ave. and E. 41st St.	Hard	50	0	0	35	0	0	10	56

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

Appendix I

Traffic and Pedestrian Safety Memo

ESA

ESA

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Los Angeles, CA 90017
213.599.4300 phone
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www.esassoc.com

memorandum

date	April 20, 2018
to	Eimon Smith, LAUSD
cc	Arabesque Abdelwahed
from	Jack Hutchison, P.E.
subject	**Thomas Jefferson High School Comprehensive Modernization Traffic and Pedestrian Safety Analysis**

This memorandum evaluates the potential traffic and pedestrian safety effects of the proposed Thomas Jefferson High School Comprehensive Modernization Project (proposed Project). The proposed Project is a site-specific school upgrade and modernization project being completed by the Los Angeles Unified School District under the School Upgrade Program. The Thomas Jefferson High School campus is an existing 18-acre site located at 1319 East 41st Street, within the southeast portion of the City of Los Angeles. **Figure 1** illustrates the Project Site location. The campus comprises an entire block and is bounded by Compton Avenue to the east, East 41st Street to the south, Hooper Avenue to the west, and residences and East 33rd Street to the north (**Figure 2**). Project implementation would not occur across the entire school campus, but on selected areas undergoing renovation.

Project Background

This Project is a part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program (SUP) that seeks to improve and modernize aging existing schools in the District. The proposed Project would include the demolition, removal and modernization of existing buildings, and construction of new facilities at the Thomas Jefferson High School campus. Project implementation would not increase the number of students attending the school or staff required to operate the school, and therefore would not generate new (permanent) traffic to the study area.

The proposed Project as designed, would support internal site circulation, access (including the path of travel), and parking at the campus. Internal circulation routes would include vehicular access to adult education and community joint use areas. The main public access to the school would continue to be off East 41st Street and Compton Avenue, and the main student entry point would continue to be off East 41st Street and South Hooper Avenue. The Project would increase the number of onsite parking spaces (from 154 to approximately 188).[1]

[1] The exact number of spaces may be updated as the Project design is refined.

SOURCE: Los Angeles County GIS.

LAUSD Jefferson Comp Mod Project . D160789.01

Figure 1

Project Vicinity

SOURCE: NAIP 2014

LAUSD Jefferson Comp Mod Project . D160789.01

Figure 2
Project Location

Construction activities are anticipated to be initiated in 2019 and to be completed in 2025. The Lead Agency for the Project is LAUSD. The Los Angeles Department of Transportation (LADOT) is one of the reviewing agencies that may have facilities affected by potential construction-related traffic impacts.

Analysis Methodology

It is anticipated that campus operations would be more efficient or would be otherwise improved following implementation of the proposed Project, which would result in new and upgraded facilities, and would not result in substantive changes to the existing operation of the school. Project implementation would not provide for an increase in the number of students attending the school or staff required to operate the school. As such, operational activities associated with the proposed Project are not additive to those operations analyzed in the Program EIR and would not result in substantial changes that have not previously been identified in the Program EIR. There would be no permanent increase in traffic generated by the proposed Project. In addition, the Project's provision for an increase in onsite parking spaces, and alternative transportation storage such as racks for bikes, scooters, and skateboards, would ease traffic congestion in the surrounding neighborhood by reducing the need for campus staff, students, or visitors to find on-street parking spaces. Therefore, this analysis focuses on potential impacts associated with temporary increases in traffic associated with the Project's construction activity.

The methodology for the analysis was as follows:

1. Establish the existing baseline traffic conditions (traffic volumes and volume-to-capacity [v/c] ratios) on roadways that provide immediate access to the campus and those that are expected to be used by construction workers and trucks to travel to and from the Project Site.

2. Estimate construction trip generation using forecasts of construction workers and trucks provided by LAUSD.

3. Evaluate Existing with Project traffic conditions (traffic volumes and v/c ratios) on study roadways.

4. Evaluate Existing with Project pedestrian safety conditions.

5. Provide a summary of the findings and make recommendations regarding the proposed Project, if warranted.

    a. As a matter of course, LAUSD would incorporate Standard Condition of Approval SC-T-4 into the construction phase of the proposed Project.

SC-T-4	LAUSD shall require its contractors to submit a construction worksite traffic control plan to LAUSD and/or the applicable local City or County jurisdiction for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction.

Changes to Project Access Points

Vehicular and pedestrian access to Thomas Jefferson High School is provided via East 41st Street, Compton Avenue, and South Hooper Avenue. The school's main public entrance connects with the northeast corner of East 41st Street/Compton Avenue, while the student entrance connects with the northwest corner of East 41st Street/South Hooper Avenue. Student drop-off/pickup currently occurs along the west (school) side of Compton Avenue. The proposed Project would not change the school entrances or drop-off/pickup zone. The Project would increase the number of onsite parking spaces, but the number of driveways crossing sidewalks would not change.

Existing Conditions Summary

This section describes existing (without Project) conditions within the identified study area. Characteristics are provided for the roadway network, traffic volumes, traffic operations, non-motorized facilities, and public transit.

Vehicular access for the Project Site is provided by a series and local and regional roads. The roads that would be used by Project-related traffic (construction workers and trucks) are anticipated to be East Martin Luther King Jr. Boulevard, South Central Avenue and South Hooper Avenue (four-lane arterial roads), East 41st Street and Compton Avenue (two-lane local streets), and Interstates 10 and 110 (regional freeways, located approximately 1 mile north of, and 1.5 miles west of, the Project Site, respectively). The street intersections on the expected haul routes where Project truck traffic would turn generally are controlled by traffic signals (the exception being the all-way stop-controlled intersection of East 41st Street and Compton Avenue). Characteristics of the existing roadway system in the Project vicinity are shown in **Table 1**.

Table 1
Study Area Roadway System

Roadway	Type	Number of Travel Lanes	Sidewalks	Bicycle Lanes
East 41st Street	Local	2	Yes	Yes
South Hooper Avenue	Arterial	4	Yes	No
Compton Avenue	Local	2	Yes	No
East Martin Luther King Jr., Boulevard (West of South Central Avenue)	Arterial	4	Yes	Yes
South Central Avenue (South of East MLK Jr., Boulevard)	Arterial	4	Yes	No

Data available from LADOT indicates the following daily traffic volumes on area roadways:

- East 41st Street = 4,000 vehicles per day
- South Hooper Avenue = 15,000 vehicles per day
- Compton Avenue = 7,000 vehicles per day
- East Martin Luther King, Jr. Boulevard = 6,600 vehicles per day
- South Central Avenue = 26,000 vehicles per day

Although roadway and traffic characteristics (e.g., parking, traffic signals) affect the carrying capacity of roadways, for transportation planning purposes, two-lane roadways (like East 41st Street and Compton Avenue) have the capacity to accommodate about 15,000 vehicles per day; and the carrying capacity of four-lane arterials (like East Martin Luther King, Jr. Boulevard and South Hooper Avenue) ranges up to 40,000 vehicles per day. As such, the volume-to-capacity (v/c) ratios of the above-cited area roads are as follows:

- East 41st Street = 0.267 (4,000/15,000)
- South Hooper Avenue = 0.375 (15,000/40,000)
- Compton Avenue = 0.467 (7,000/15,000)
- East MLK, Jr. Boulevard = 0.165 (6,600/40,000)
- South Central Avenue = 0.650 (26,000/40,000)

Students, faculty and staff can currently travel to school using public transit routes, bicycles and by walking. There are sidewalks on all streets surrounding the school. In addition, LAUSD encourages ride-sharing programs for students and teachers, as well as riding bicycles to school. Transit service to the Project Site is provided by the Los Angeles County Metropolitan Authority (or Metro), which operates Bus Line 55/355 on Compton Avenue and East 41st Street (nearest stops on Compton Avenue at East 41st Street, and on East 41st Street at Compton Avenue. Also, LADOT DASH operates Bus Line 102 on East 41st Street (nearest stop on East 41st Street at South Hooper Avenue).

Existing with Project Summary

This section documents Project-generated traffic impacts on the surrounding transportation system during the peak trip generation for the Project. The additional traffic generated by the construction activities would be temporary, and would last through the phases of the conservatively-estimated 5.5-year construction period. The proposed Project would not increase the existing number of students or staff, and therefore it would not generate new (permanent) traffic to the study area.

Removal Action Workplan

Prior to construction,[2] soil contaminated by lead and arsenic would be removed from the site and replaced with clean fill dirt. A Removal Action Workplan (RAW) has been prepared to address removal of approximately 230 cubic yards of soil to meet cleanup goals. Over a one-week period, haul trucks would transport contaminated soil to an appropriate landfill permitted to accept this waste type. The RAW would be completed prior to construction for the comprehensive modernization.

Construction Phasing

The proposed Project would be developed in five phases over a 5.5-year period, and would include onsite demolition, excavation, stockpiling, and grading activities. In addition, trucks would be intermittently delivering building materials to the site. The construction schedule would have limited to no overlap between phases.

[2] Specifically, prior to groundwork each construction phase.

Construction (Comprehensive Modernization Phases)

- **Phase 1 (6 months)**: During this phase, portable buildings and structures located along Compton Avenue in the eastern portion of the site would be demolished and removed. After demolition and grading, this area would be used for construction staging and would include an electrical enclosure. The area east of the playing field would include the interim housing buildings.

- **Phase 2 (24 months)**: During this phase, the portable buildings northeast of the playing field would be demolished. The Industrial Arts Building and Metal Shop Building interiors would be demolished as required for new proposed interim spaces. The interiors of the Industrial Arts and Shop Buildings would be remodeled. New portable buildings would be provided as interim housing in the same area.

- **Phase 3 (24 months)**: During this phase, portable buildings, the Home Economics Building, Music Building, Mechanical Arts Building, Gymnasium Building, and Power House would be demolished. After demolition and grading activities, the development of the New Classroom Building, New Athletics Building, and new parking lots would be construction during this phase on the southeastern corner of the campus. A wellness center would be constructed off Hooper Avenue within the new Classroom Building, and the quad area would be improved. The existing Administrative/Library Building interior remodeling would be completed during this phase.

- **Phase 4 (24 months):** During this phase, the Gymnasium (Competitive; or formerly Boys' Gymnasium) would be demolished. The existing Administrative/Library Building interior would be demolished and remodeled during this phase. Improvements, including programmatic access and structural upgrades, for the Cafeteria Building and Auditorium Building would be completed during this phase. The new Lunch Pavilion and Quad would be constructed during this phase.

- **Phase 5 (6 months):** This phase would include the entire demolition of the interim housing area in the northeast portion of the campus and the buildings in the northwest corner of the campus. These areas would be redeveloped for parking, athletic courts and fields. The new parking area would be constructed internal to the campus along the Compton Avenue. The new tennis courts would be construction on the northwest corner of the campus the hardcourts and playing field and green house would be constructed in the eastern-northeastern area of the campus.

Trip Generation

Based on information provided by LAUSD, the proposed Project would require an average of about 50 workers (and a maximum of about150 workers) onsite on a given day, generating an average of about 126 one-way trips per day, and a maximum of about 376 one-way trips per day.[3] The work hours would be such that workers would primarily travel to and from the Project Site outside of peak traffic hours (morning and late afternoon/evening). The number of daily truck trips would range from 14 to 38 one-way trips per day, except for a one-week period during the pre-construction removal of contaminated soil, when there would be 50 to 100 one-way trips per day; the soil removal would require 4 to 6 workers onsite each day. It is anticipated that truck trips would be spread throughout the day during work hours. Conservatively assuming that up to 414 one-way vehicle trips (376 worker

[3] Daily trips by construction workers would consist of inbound and outbound commute trips (conservatively assumed to be each worker in their own vehicle), plus midday trips (lunch or other errands) by about 25% of the workers.

trips plus 38 truck trips) would travel on all of the study roads, the resulting v/c ratios under Existing with Project conditions would be as follows:

- East 41st Street = 0.294 (4,414/15,000)
- South Hooper Avenue = 0.385 (15,414/40,000)
- Compton Avenue = 0.494 (7,414/15,000)
- East MLK, Jr. Boulevard = 0.175 (7,014/40,000)
- South Central Avenue = 0.660 (26,414/40,000)

As shown, all of the study roadways would continue to operate with a volume-to-capacity (v/c) ratio of less than 0.700 on a daily basis under the Existing plus Project conditions. Furthermore, for all study roadways, the Project-related increase in v/c ratio on the study area roadways would be no more than 0.028, which would not exceed the threshold of significance established by LADOT. Therefore, there would be no significant traffic impacts at the study area roadways with the addition of Project construction traffic (the roadways would continue to accommodate traffic within the roadways' carrying capacity).

LAUSD requires its contractors to submit a construction worksite traffic control plan to the applicable local City or County jurisdiction (e.g., LADOT) for review prior to construction, as required by SC-T-4. Elements of the traffic control plan would include, but would not necessarily be limited to, restricting construction-related trucks to off-peak commute periods, and provision of flaggers to assist or direct traffic flows to and from the local streets A "haul route permit" may be required and obtained from LADOT. Therefore, the Project would not cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system. As such, impacts would be less than significant.

Regarding Congestion Management Program considerations, level of service standards established by jurisdictions (such as Los Angeles County) are intended to regulate long-term (permanent) traffic increases associated with new development and do not apply to short-term (temporary) traffic increases that occur during construction.[4] As stated above, school enrollment and staff levels would remain the same at Thomas Jefferson High School following completion of the proposed Project, and there would be no permanent increase in traffic generated by the Project. Potential impacts associated with the proposed Project would be limited to construction activity, and the temporary increased vehicle trips would cease when construction is complete, and implementation of the proposed Project would not result in any long-term, ongoing effects related to traffic and congestion.

Pedestrian Safety and Access

The campus is bounded by Compton Avenue to the east, East 41st Street to the south, South Hooper Avenue to the west, and pedestrian access and circulation is provided on sidewalks on those streets. The South Hooper Avenue/East 41st Street intersection is controlled by a traffic signal with school crosswalk pavement markings on all four approaches to the intersection. The Compton Avenue/East 41st Street intersection is controlled by stop signs on all three approaches to the intersection. There are school crosswalk pavement markings on the eastbound (East 41st Street) and southbound (Compton Avenue) approaches to this intersection; there are also "Pedestrian Crossing" warning signs for East 41st Street traffic. There are additional school crosswalk pavement markings at

[4] Per the Los Angeles County 2010 Congestion Management Program, analysis of the cause of a "deficiency" (i.e., when level of service standards are not maintained) shall exclude traffic generated by construction activity.

the site-surrounding intersections of South Hooper Avenue/East 40th Place (signalized), South Hooper Avenue/East 33rd Street (signalized), and Compton Avenue/East Martin Luther King, Jr. Boulevard (all-way stop control).

The proposed Project would not include changes to existing roadways (including sidewalks), and it would be designed to enhance path of travel, accessibility, and other pedestrian travel throughout the campus. The Project would increase the number of onsite parking spaces, and would alter the location of access driveways for the onsite parking spaces, but the number of driveways crossing sidewalks would not change. The design of the Project (e.g., access for the expanded on-campus parking lots) would include the use of standard engineering practices, such as standard driveway widths and turning radii and the provision of adequate line of sight to avoid design elements that could result in hazards. In addition, projects are required to provide emergency vehicle access for the City of Los Angeles Fire Department (LAFD). Conformance with District policies and local ordinances would ensure that adequate access would be maintained.

In general, adopted policies, plans, and programs pertaining to public transit, bicycle, and pedestrian travel are intended to be used for long-term planning purposes and do not apply to construction activities. The proposed Project would not directly or indirectly eliminate alternative modes of transportation, transportation corridors, or facilities (e.g., bus stops). Further, the proposed Project would not prevent the use of any roads on which public transit routes operate. There would be no impacts related to conflicts with policies, plans, or programs related to transit, bicycle, or pedestrian travel.

Pedestrian access to and from the school during construction would be minimally altered, and any temporary changes to pedestrian access during construction would be completed as outlined in a worksite traffic control plan for the proposed Project (per SC-T-4). The new parking lots would be designed per the requirements of LAUSD and the LADOT. Construction vehicles accessing the campus would avoid drop-off and deliveries during the start and end of the school day. Further construction-related access and traffic specifics would be coordinated with the campus administrators, LAUSD's Transportation Branch, and Office of Environmental Health and Safety and will be detailed in the worksite traffic control plan.

The Project would not increase student enrollment or staff levels, is not anticipated to increase the number of pedestrians walking to and from the school, would not include changes to existing roadways (including sidewalks); and would be designed to enhance path of travel, accessibility, and other pedestrian travel throughout the campus. The Project design (including the addition of a new on-campus parking lot in front of the new Gymnasium) would employ standard engineering practices, such as standard driveway widths and turning radii and the provision of adequate line of sight to avoid design elements that could result in hazards. Additionally, LADOT converted the traffic control at the unsignalized intersection of East 41st Street and Compton Avenue to all-way stop control to further improve safety for students walking to the campus from local neighborhoods. Therefore, the proposed Project would not substantially increase vehicular and/or pedestrian safety hazards. As such, Project-related impacts to pedestrian safety would be less than significant.

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SUBJECT: LETTER OF NO IMPACT FOR THOMAS JEFFERSON HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

Dear Ms. Smith:

Per our April 20, 2018 *Traffic Memorandum for the Thomas Jefferson High School Comprehensive Modernization Project (Revised)*, we have made the following findings:

- The peak construction phase of the proposed Project would generate approximately 414 daily vehicle trips (376 worker trips and 38 truck trips). Worker trips would consist of about 150 trips inbound to the Project Site at the start of the work day, 150 trips outbound from the Project Site at the end of the work day, and 76 trips (38 inbound and 38 outbound) during midday hours. Truck trips would be spread over the course of the work day.

- All of the study roadways would continue to operate with a volume-to-capacity (v/c) ratio of less than 0.700 on a daily basis under the Existing plus Project conditions. Furthermore, for all study roadways, the Project-related increase (no more than 0.028) would not exceed the threshold of significance established by LADOT. Therefore, there would be no significant traffic impacts at the study area roadways with the addition of Project-related construction traffic.

- Although the proposed Project would not result in significant traffic impacts, LAUSD would incorporate Standard Condition of Approval SC-T-4 into the proposed Project.

SC-T-4 LAUSD shall require its contractors to submit a construction worksite traffic control plan to LAUSD and/or the applicable local City or County jurisdiction for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction.

The worksite traffic control plan will be completed in accordance with the applicable standards and guidelines provided in the California Vehicle Code, or by LAUSD and the Los Angeles Department of Transportation (LADOT) and all related and applicable traffic related standards and guidelines. The worksite traffic control plan will be submitted to LADOT. With the implementation of SC-T-4, temporary construction-related traffic impacts to the study area roadways, and vehicular and pedestrian access points would be less than significant. Therefore, no impacts to the surrounding street, pedestrian, and bicycle networks would be created by the proposed Project.

Sincerely,

Jack Hutchison

Jack Hutchison, P.E.
Senior Transportation Engineer