Appendix A

Air Quality Report

AIR QUALITY REPORT

FOR THE

TAFT CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

CITY OF LOS ANGELES

LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

Los Angeles Unified School District
Office of Environmental Health and Safety
333 S. Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Prepared by:

Wood Environment & Infrastructure Solutions, Inc.
104 W. Anapamu Street, Suite 204A
Santa Barbara, California 93101

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INTRODUCTION

The following Air Quality Report was prepared by Wood Environment & Infrastructure Solutions, Inc. (Wood) in support of an Initial Study (IS) and Mitigated Negative Declaration (MND) for the Taft Charter High School Comprehensive Modernization Project (Project) in the City of Los Angeles, California. The proposed Project includes a range of renovations, modernizations, and reconfigurations throughout William Howard Taft Charter High School (Taft Charter High School or Campus). Construction activities are anticipated begin in the first quarter of 2022 (Q1) and to continue through Q3 2025 (approximately 40 months).

Ongoing master planning activities and facility site assessments conducted for Los Angeles Unified School District's (LAUSD's or District's) 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 (EIR; State Clearinghouse [SCH] No. 2013111046) to evaluate the direct and indirect environmental effects of the SUP. The SUP Program EIR meets the criteria for a Program EIR under California Environmental Quality Act (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 SUP Program EIR enables LAUSD to streamline future environmental compliance and reduces the need for repetitive environmental studies. The SUP 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 (NDs) on narrower projects; incorporating by reference the general discussions from the broader EIR; and concentrating the later EIR or ND/MND solely on the issues specific to the later project.[1]

SUP PROGRAM EIR AIR QUALITY SUMMARY

According to the SUP Program EIR, projects implemented under the SUP are anticipated to have less than significant impacts on air quality in the region (see Table 1). Similarly, the Project-specific analysis concludes that implementation of the proposed comprehensive modernization at Taft Charter High School would have less than significant impacts to the Campus and the surrounding community.

Table 1
SUP Program EIR Air Quality Summary

No.	Environmental Threshold	Level of Impact Significance	Potential Impacts Identified in the SUP Program EIR	Applicable Standard Conditions[1]	Mitigation Measures
1	Conflict with or obstruct implementation of the applicable air quality plan.	Less than Significant	Impact 5.3-1: SUP-related projects would be consistent with the applicable air quality management plan.	SC-AQ-1	No mitigation measures are required.

[1] California Code of Regulations (CCR), Title 14, Division 6, Chapter 3, Section 15152(a).

Table 1
SUP Program EIR Air Quality Summary

No.	Environmental Threshold	Level of Impact Significance	Potential Impacts Identified in the SUP Program EIR	Applicable Standard Conditions[1]	Mitigation Measures
2	Generate short-term air pollutant emissions, either directly or indirectly, that may have a significant impact on the environment.	Potentially significant and unavoidable	Impact 5.3-2: Construction activities may generate short-term emissions that exceed the South Coast Air Quality Management District's regional significance thresholds and cumulatively contribute to the South Coast Air Basin nonattainment designations.	SC-AQ-2 SC-AQ-3	No feasible mitigation measures are available that would further reduce short-term emissions and impacts to regional air quality.
3	Generate long-term air pollutant emissions, either directly or indirectly, that may have a significant impact on the environment.	Less than Significant	Impact 5.3-3: SUP-related projects would not generate long-term emissions that would exceed the South Coast Air Quality Management District's regional significance thresholds and would not cumulatively contribute to the South Coast Air Basin nonattainment designations.	SC-AQ-2 SC-AQ-3	No mitigation measures are required.
4	Expose sensitive receptors to substantial pollutant concentrations.	Potentially significant and unavoidable	Impact 5.3-4: Site-specific SUP projects may generate short-term (construction) emissions that exceed the South Coast Air Quality Management District's localized significance thresholds and expose sensitive receptors to substantial pollutant concentrations.	SC-AQ-4	No feasible mitigation measures are available that would further reduce potentially significant short-term localized emission impacts.
5	Expose sensitive receptors to substantial pollutant concentrations.	Less than Significant	Impact 5.3-5: Operation of SUP projects would not expose sensitive receptors to substantial pollutant concentrations.	SC-AQ-4	No mitigation measures are required.

Table 1
SUP Program EIR Air Quality Summary

No.	Environmental Threshold	Level of Impact Significance	Potential Impacts Identified in the SUP Program EIR	Applicable Standard Conditions[1]	Mitigation Measures
6	Create objectionable odors affecting a substantial number of people.	Less than Significant	Impact 5.3-6: Implementation of SUP-related projects would not create objectionable odors.	SC-AQ-5	No mitigation measures are required.
7	Expose sensitive receptors in proximity to freeways and major roadways to substantial pollutant concentrations	Less than Significant	Impact 5.3-7: SUP-related projects would not expose sensitive receptors in proximity to freeways and major roadways to substantial pollutant concentrations.	SC-AQ-6 SC-AQ-7	No mitigation measures are required.

Notes: [1]The LAUSD Board of Education (BOE) adopted a previous version of the Standard Conditions (SCs) on November 10, 2015 (Board Report Number 159-15/16). They were originally compiled as a supplement to the SUP Program EIR, which was certified by the BOE on November 10, 2015 (Board Report No. 159-15/16). The SCs were recently updated in order to incorporate and reflect recent changes in the laws, regulations and the LAUSD's standard policies, practices, and specifications (i.e., the Design Guidelines and Design Standards, which are routinely updated and are referenced throughout the SCs). These updated SCs were adopted by the BOE on February 5, 2019 (Board Report Number 241-18/19).

This Air Quality Report was prepared in accordance with the *CEQA Air Quality Handbook* prepared by the South Coast Air Quality Management District.[2] The Air Quality Report includes a description of federal, State, regional, and local agencies that govern air quality and climate change, and their pertinent statutes and regulations. It identifies potential impacts of air pollutants of concern for the proposed Project, including criteria pollutants (i.e., pollutants for which National Ambient Air Quality Standards [NAAQS] and/or California Ambient Air Quality Standards [CAAQS] have been established) and mobile source toxic air contaminates. The Air Quality Report describes the analytical methodologies, assumptions, results, and proposed mitigation measures.

PROJECT DESCRIPTION

As part of the SUP,[3] LAUSD plans to implement a Comprehensive Modernization Project at Taft Charter High School in Woodland Hills, California. A Campus-wide survey of the Taft Charter High School found existing structures and mechanical systems to be outdated, requiring rehabilitation or modernization to meet current needs. Initial construction of Taft Charter High School began in 1958 and the Campus was opened in 1960. The original facilities included the Multi-Purpose Building (Building 1), Gymnasium (Building 2), four classrooms (Buildings 6, 18, 19, and 20), two Industrial Arts Buildings (Buildings 9 and 10), Administrative Building (Building 21), and Agricultural Building (Building 24) as well as a lunch pavilion, running track and football field, and an outdoor stage and assembly area. Near the southcentral edge of the Campus, three additional classroom buildings (Buildings 3, 4, and 5) were constructed between 1964 and 1967. Today, the

[2] SCAQMD. 1993. CEQA Air Quality Handbook. http://sfprod.aqmd.gov/home/regulations/ceqa/air-quality- analysis-handbook.
[4] LAUSD. 2015. SUP Program EIR. http://achieve.lausd.net/ceqa.

southwestern area of the Campus is occupied by Ivy Academia Charter School Buildings, including an Agricultural Building (Building 24) and portable/temporary buildings, which feature a restroom (Building 28) and five classrooms (Buildings 29, 30, 31, 32, and 33) that were added to the Campus between 1980 and 1989 as well as five modular buildings (Buildings 34, 35, 36, 37, and 38) that were also added to the southwestern edge of the Campus in 2001.[18]

The proposed Project would address the deficiencies identified in the Campus-wide survey through demolition of structures and systems that are beyond repair; construction of new buildings; improvements to the existing Campus building and facilities; upgrades to infrastructure and utilities; and various upgrades to comply with the Americans with Disabilities Act of 1990 (ADA).

PROJECT LOCATION

Taft Charter High School is located at 5461 Winnetka Avenue within the Woodland Hills neighborhood of Los Angeles, California, 91364. The school boundary includes two discontinuous parcels located on opposite sides of Winnetka Avenue totaling 32.4 acres. The larger 29.81-acre parcel to the west of Winnetka Avenue (Assessor Parcel Number [APN] 2166-042-902) includes the main campus of Taft Charter High School and the smaller 2.59-acre parcel to the east (APN 2166-034-900)[4] includes a surface parking lot as well as two portable buildings for the Thoreau Continuation High School.

PURPOSE AND OBJECTIVES

The purpose of the Project is to provide facilities that are safe, secure, and aligned with the instructional program at Taft Charter High School. The Project is designed to address the most critical physical concerns of the buildings and grounds at the Campus while providing renovations and modernizations that are consistent with the Comprehensive Modernization Project Definitions.[5] The Project would be completed under LAUSD's SUP. The goals of the Project are consistent with the SUP's goal to build, modernize, and repair school facilities to improve student health, safety, and educational quality.[6]

PLANNED IMPROVEMENTS

The major Project components include: 1) demolition of various buildings; 2) new construction; and 3) modernization ranging from minor interior/exterior improvements to major seismic retrofits pursuant to Assembly Bill (AB) 300**.** The Project also involves various Campus-wide improvements such as utilities upgrades, stormwater improvements, and hardscape/landscape improvements to comply with federal, State, and local facilities requirements.

Table 1 summarizes the planned demolition, construction, and major modernizations at the Campus.

[4] This discontiguous parcel is included in the Campus boundary but is not programmed for construction or other ground disturbing activities as a part of the proposed Project. However, for the purposes of this CEQA analysis, it is assumed that this lot may potentially be used for construction-related parking or staging during construction of the proposed Project.

[5] LAUSD. 2016. Board of Education Report. Report No. 246-15/16. Los Angeles, CA.

[6] LAUSD. 2015. SUP Program EIR. http://achieve.lausd.net/ceqa.

Table 2
Project Components
(Demolition, New Construction, and Remodel/Modernization)

Bldg. No.	CAFM No.	Building Name	Demolition	New Construction	Major Remodel/ Modernization	Existing to Remain
1	21405	Multi-Purpose Building			21,461 sf	
2	20468	Gymnasium Building				39,452 sf
3	22299	Classroom Building G				27,063 sf
4	21590	Classroom Building F				7,429 sf
5	21588	Classroom Building E				7,445 sf
6	22595	Classroom Building C				34,523 sf
7	21299	Student Store Building				824 sf
8	20417	Sanitary Building #1	840 sf			
9	21943	Industrial Arts #2	7,298 sf			
10	20726	Industrial Arts #1			18,330 sf	
11	38539	Athletic Equipment Storage Unit	383 sf			
12	37504	Audio Visual Building	2,949 sf			
13	22551	Storage Unit #1	381 sf			
14	25767	Sanitary Building #2	557 sf			
15	20393	Announcer's Booth				120 sf
16	23012	Storage Unit #2	624 sf			
17	22000	Utility Building (M&O Building)				2,717 sf
18	20638	Classroom Building D				35,363 sf
19	20727	Classroom Building B				23,673 sf
20	22320	Classroom Building A				24,442 sf
21	28982	Administrative Building			23,795 sf	
24, 28-38	see notes below †	12 Buildings: Former Ivy Academia Charter School	20,574 sf			
39	38538	Ticket Booth #1	90 sf			
40	38542	Ticket Booth #2				90 sf
41	38537	Concessions #1	224 sf			
42	38543	Concessions #2				296 sf
-	36403	Lunch Pavilion				14,730 sf

Table 2
Project Components
(Demolition, New Construction, and Remodel/Modernization)

Bldg. No.	CAFM No.	Building Name	Demolition	New Construction	Major Remodel/ Modernization	Existing to Remain
-	58110	Food Service Enclosure				190 sf
-	-	Administration Addition		4,100 sf		
-	-	Building X		1,982 sf		
-	-	Building Y		1,668 sf		
-	-	Electrical Service Yard		N/A		
		Campus Total* Does not include outdoor space (e.g., landscape/hardscape)	**Up to 33,982 sf**	**7,750 sf**	**63,586 sf**	**218,357 sf**

Note: All areas are provided in square feet (sf). All new areas are approximate and subject to change during final site and architectural planning and design phases. These changes would not significantly change the environmental analysis or findings in this IS.

* Square footages may not add up exactly due to rounding and the way usable space is calculated. All numbers are based on LAUSD Taft Charter High School Comprehensive Modernization Project – Space Program. August 15, 2018.

Current total square footage = Existing + Remodel + Demolition (315,863 sf). After project square footage = Existing + Remodel + New (289,693 square feet). The net difference in campus square footage = -26,170 sf.

† The former Ivy Academia Charter School – which relocated in 2019 – occupied the following portables: Building 24 (CAFM No. 20558), Building 28 (CAFM No. 21252), Building 29 (CAFM No. 23034), Building 30 (CAFM No. 21490), Building 31 (CAFM No. 20786), Building 32 (CAFM No. 21990), Building 33 (CAFM No. 21265), Building 34 (CAFM No. 28836), Building 35 (CAFM No. 28837), Building 36 (CAFM No. 28838), Building 37 (CAFM No. 28839), and Building 38 (28840).

DEMOLITION

The proposed comprehensive modernization would include demolition and removal of 9 permanent buildings as well as the 12 buildings/portables containing classrooms and support spaces for Ivy Academia Charter School, which was recently relocated from Taft Charter High School to an off-site location. The demolition and removal of existing buildings/portables would be required to facilitate the expanded track and field as well as the new softball field. The following buildings would be demolished or removed:

- Sanitary Building #1 (Building 8)
- Industrial Arts Building #2 (Building 9)
- Athletic Equipment Storage Unit (Building 11)
- Audio Visual Building (Building 12)
- Storage Unit #1 (Building 13)
- Sanitary Building #2 (Building 14)
- Storage Unit #2 (Building 16)

- Ticket Booth #1 (Building 39)
- Concessions #1 (Building 41)
- Ivy Academia Charter School Buildings (Building 24 and Buildings 28-38)
- Existing transformer and various Campus-wide underground utilities proposed for upgrades (see Infrastructure Upgrades in the following discussion)

NEW CONSTRUCTION AND RENOVATIONS

New construction at Taft Charter High School would include replacement of the existing restrooms, ticket booth, concessions, and other buildings/facilities that would be demolished in support of the expanded track and field as well as the new softball field. Additionally, new construction would include a 4,100 square foot Administrative Addition, new electrical services yard, and improvements to the maintenance and operation yard.

MODERNIZATIONS AND RENOVATIONS

All or parts of the following buildings would receive major modernization, including seismic retrofit pursuant to AB 300 and low voltage upgrades to support current technology:

- Multi-Purpose Building (Building 1) – Only the Multi-Purpose Room and supporting spaces would receive full modernization; the remainder of the building would not require reconfiguration.
- Industrial Arts #1 (Building 10) – Including removal of equipment and capping of utilities in the unused Boiler Room below grade.
- Administrative Building (Building 21) – Including full modernization of the administrative and drama areas.

The following buildings would receive interior/exterior improvements or light modernizations:

- Gymnasium Building (Building 2) – Provide accessible restrooms, showers, and lockers consistent with the requirements of the ADA.
- Classroom Building G (Building 3) – Provide ADA improvements including accessible restrooms, signage, classroom sinks, drinking fountains, ramp at north entry, and assistive listening system. Provide new elevator with enclosure, canopy and bridge connection(s) to floor levels/other buildings, as required.
- Classroom Building F (Building 4) – Provide ADA improvements including accessible classroom sinks, drinking fountain, ramp at north entry, connection to the Classroom Building G (Building 3) elevator, and assistive listening system.
- Classroom Building E (Building 5) – Provide ADA accessible lab and classroom sinks, drinking fountains, ramp at north entry, connection to Classroom Building G (Building 3) elevator and assistive listening system.
- Classroom Building C (Building 6) – Provide ADA accessible restrooms, signage, classroom sinks, drinking fountains, covered exterior connection to Classroom Building D (Building 18) elevator, and assistive listening system.

- Announcers Booth (Building 15) – Ticket Booth (Building #40), Concessions #2 (Building 42) – Provide ADA accessible paths to each facility, as necessary.

- Classroom Building D (Building 18) – Provide ADA accessible restrooms, signage, classroom sinks, drinking fountains and assistive listening system. For floor levels accessibility provide new elevator with enclosure, canopy and bridge connection(s) to floor levels and Classroom Building C (Building 6), as required.

- Classroom Building B (Building 19) – Provide ADA accessible restrooms, signage, classroom sinks, drinking fountains, and assistive listening system.

- Classroom Building A (Building 20) – Provide ADA accessible restrooms, signage, classroom sinks, drinking fountains, assistive listening system. For floor levels accessibility provide new elevator with enclosure, canopy and bridge connection(s) to floor levels, as required.

- Additionally, internal upgrades to restrooms, sewer, water, gas, and possibly fire and water in all 2-story classroom buildings would be completed.

The exterior of all existing buildings on Campus would be painted or cleaned, as appropriate, to provide a uniform appearance and enhanced curb appeal. Existing classrooms not being modernized would also receive minor interior improvements to help promote teaching and learning.

The following athletic facilities would also receive minor upgrades:

- Existing Baseball Field – Fill in any depressions in the outfield and/or infield that exhibit obvious water ponding. Repair any irrigation that serves the baseball field efficiently and prepare for re-seeding with appropriate soil additives.

INFRASTRUCTURE UPGRADES

Infrastructure upgrades would include improvements to and/or replacement of existing utilities, site furnishings and bleacher structures, paving and parking arrangements, and adjustments to the athletic facilities on campus This would include stadium lighting for bleacher safety and facility departure, investigation of existing stadium lighting following the proposed expansion of the track and field potential adjustments of addition of new light poles to provide adequate coverage; and potential installation of lighting for the new softball field).

UPDATES FOR REGULATORY COMPLIANCE

The Project includes various actions to ensure that LAUSD complies with various federal, State, and local statutory and regulatory requirements. These include improvements required by the ADA, California Division of the State Architect (DSA), Office of the Independent Monitor, and the recently adopted Standard Conditions (SCs).

ACCESS, CIRCULATION, AND PARKING

Campus access, traffic circulation, and pick-up/drop-off locations would remain unchanged under the Project. Further campus operations after completion of the modernization construction would not generate additional vehicular trips. Therefore, existing travel routes to Taft Charter High School would not be altered as a result of the Project.

LANDSCAPING

The Project landscaping would be designed to be compatible with the Campus and would incorporate, to the extent possible, native plants and vegetation that are appropriate for the Campus and the Southern California setting. All plants and vegetation proposed for the Campus would be selected from the LAUSD's approved plant list or would be approved by the LAUSD prior to being placed on the Campus.

The Project would involve the removal of approximately 16 percent of the existing trees on Campus. There are at least 417 trees on the property,[7] of which approximately 67 are proposed for removal, primarily associated with the new softball field, accessibility to the visitor stadium seating, and expansion of the track and field. The number and tree locations may be subject to change as the Project design is refined and finalized. All tree removal would comply with the LAUSD OEHS Tree Trimming and Removal Procedure.

CONSTRUCTION SCHEDULE

Construction is planned to start in the first quarter of 2022 (Q1) and be completed by Q3 2025 (approximately 40 months). Site/utility/interim housing activities which may begin in advance of the proposed construction. Temporary relocation of sports and recreational activities is expected to occur throughout construction, as necessary. Public parks and/or other recreational facilities near the school site would provide temporary recreational accommodations for the Taft Charter High School students while sports facilities on campus are unavailable during construction.

Table 3 summarizes the proposed construction activities and schedule for implementation of the Project. The proposed construction scenario is based on a conservative phasing plan but is subject to change as the Project design is refined.

Table 3
Construction Schedule and Equipment

Phase	Schedule	Equipment	Number
Demolition	*2022-2022* *June* to *August*	Excavators with Breaker	1
		Loader	1
		Bobcat/Skip	1
		Crushing Equipment	1
		Water Truck	1
		Building Debris Haul Trips; average 10 cubic yard (CY) end-dump trucks	10
		Asphalt/Concrete Debris haul trips; average 10 CY end-dump trucks	10
		Jack Hammers	2
Grading	*2022-2022* *August* to *December*	Excavator	1
		Compactor	1
		Loader	1
		Skip Loader	1
		Water Truck	1
		Soil haul trips (soil export); average 14 CY bottom dump trucks	35

[7] NAC Architecture. 2018. Draft Arborist Report for Taft Charter High School.

Table 3
Construction Schedule and Equipment

Phase	Schedule	Equipment	Number
		Vibratory Rollers (for 95% soil compaction)	2
		Trencher / Excavator	1
Building Construction	*2023-2025* *January* to *February*	Concrete Trucks	5
		Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	1
		Concrete Pump	1
		Crane	1
		Dump Trucks	2
		Fork Lifts/Gradalls	4
		Delivery Trucks	12
		Backhoes	2
		Water Truck	1
Building Interiors	*2025-2025* *March* to *May*	Air Compressor	1
Asphalt Paving and Site Improvements (e.g., utilities)	*2025-2025* *June* to *September*	Skip Loaders	2
		Roller	1
		Paver	1
		Asphalt Trucks	8
		Water Truck	1

EXISTING AIR QUALITY

Air quality is affected by both the rate and location of pollutant emissions, and by meteorological conditions that influence movement and dispersal of pollutants. Atmospheric conditions such as wind speed, wind direction, and air temperature gradients, along with local topography, provide the link between air pollutant emissions and air quality.

The Project site is located in the South Coast Air Basin (SCAB or Basin), which includes the western portion of San Bernardino County - including some portions of what was previously known as the Southeast Desert Air Basin, all of Orange County, the non-desert portions of Los Angeles County, and most of Riverside County. The distinctive climate of the Basin is determined by its terrain and geographic location. The Basin spans a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean to the southwest and high mountains around its remaining perimeter. This region is located in the semi-permanent high-pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light average wind speeds. The usually mild climatological pattern is interrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds.

The vertical dispersion of air pollutants in the Basin is often blocked by the presence of persistent temperature inversions. An upper layer of dry air that warms as it descends characterizes high-pressure systems, such as the semi-permanent high-pressure zone in which the Basin is located. This upper layer restricts the mobility of cooler marine-influenced air near the ground surface and results in the formation of subsidence inversions. Such inversions restrict the vertical dispersion of air pollutants released into the marine layer and, together with strong sunlight, can produce worst-case conditions for the formation of smog.

The atmospheric pollution potential of an area is largely dependent on winds, atmospheric stability, solar radiation, and terrain. The combination of low wind speeds and low inversions produces the greatest concentration of air pollutants. On days without inversions, or on days of winds averaging over 15 miles per hour (mph), smog potential is greatly reduced.[8]

Winds in the Basin are generally light, tempered by afternoon sea breezes. Severe weather is uncommon in the Basin, but strong easterly winds known as the Santa Ana winds can reach 25 to 35 mph below the passes and canyons. During the spring and summer months, air pollution is carried out of the region through mountain passes in wind currents or is lifted by the warm vertical currents produced by the heating of the mountain slopes. From the late summer through the winter months, because of the average lower wind speeds and temperatures, air contaminants do not readily disperse, thus trapping air pollution in the Basin.

The SCAQMD has divided the Basin into source receptor areas (SRAs), based on similar meteorological and topographical features. The proposed Project site is located in the SCAQMD's West San Fernando Valley SRA (SRA 6). The most representative station of the Project site is the Reseda Station, which is located at 18330 Gault Street, Reseda, CA, 91702, approximately 4.2 miles northeast of the Project site. The Reseda Station monitors fine particulate matter ($PM_{2.5}$), nitrogen dioxide (NO_2), and ozone (O_3). No stations within a reasonable distance measures suspended particulate matter (PM_{10}) and sulfur dioxide (SO_2).

POLLUTANTS OF CONCERN

Criteria pollutants are air pollutants for which acceptable levels of exposure can be determined and an ambient air quality standard has been established by the U.S. Environmental Protection Agency (USEPA) and/or the California Air Resources Board (CARB). The criteria air pollutants of concern are NO_2, carbon monoxide (CO), particulate matter (PM), SO_2, lead (Pb), and O_3, and their precursors. Since the proposed Project would not generate appreciable SO_2 or Pb emissions, it is not necessary for the analysis to include those two pollutants. Presented below are the air pollutants of concern. Their descriptions and known health effects can be found in Section 5 of the SUP Program EIR.[9]

- Nitrogen oxides (NO_x)
- Carbon monoxide (CO)
- Particulate matter (PM)
- Reactive organic gases (ROG)
- Ozone (O_3)

APPLICABLE AIR QUALITY REGULATIONS

Federal, State, regional, and local air quality regulations are discussed in detail in the SUP Program EIR. There have been no substantial changes in regulations since the certification of SUP Program EIR that could measurably affect the air quality analysis for the proposed Project. Therefore, federal, State, and local regulations are not discussed further in this Air Quality Report.

AIR QUALITY PLANS

The SCAQMD is required to produce plans to show how air quality will be improved in the region. The California Clean Air Act (CCAA) requires these plans be updated triennially to incorporate the most recent available technical information. A multi-level partnership of governmental agencies at the federal, State,

[8] SCAQMD. 1993. CEQA Air Quality Handbook. http://sfprod.aqmd.gov/home/regulations/ceqa/air-quality- analysis-handbook.

[9] LAUSD. 2015. SUP Program EIR. http://achieve.lausd.net/ceqa.

regional, and local levels implement the programs contained in these plans. In addition to SCAQMD, other agencies involved include the USEPA, CARB, Southern California Association of Governments (SCAG), and local governments. The SCAQMD and the SCAG are responsible for formulating and implementing the Air Quality Management Plan (AQMP) for the Basin. The 2012 AQMP was adopted by the SCAQMD Board on December 6, 2012 and submitted to the CARB and the USEPA for concurrent review on December 20, 2012 (Wallerstein 2012). After the submittal, the SCAQMD adopted Amendment IND-01 to the 2012 AQMP. This control measure applies to emissions from sources associated with the Port of Los Angeles and the Port of Long Beach.

The 2012 AQMP identifies control measures needed to demonstrate attainment with the federal 24-hour standard for $PM_{2.5}$ by 2014 in the Basin. In addition, the 2012 AQMP provides updates on progress towards meeting the 8-hour O_3 standard for 2023, an attainment demonstration for the revoked 1-hour O_3 standard, a vehicle miles traveled (VMT) offset demonstration for O_3 standards, and a report on the health effects of $PM_{2.5}$.

On January 25, 2013, the CARB approved the South Coast 2012 AQMP as an amendment to the State Implementation Plan (SIP). On February 13, 2013, the CARB submitted the approved plan to the USEPA. On August 13, 2014, the USEPA approved the California SIP's plan for attainment of the 1-hour O_3 standard and the VMT emissions offset demonstration for the 1-hour and 1997 8-hour O_3 standards.

The 2016 AQMP was adopted by the SCAQMD Board on March 3, 2017, and on March 10, 2017 was submitted to the CARB as part of the SIP.[10] It focuses largely on reducing NO_x emissions as a means of attaining the 1979 1-hour O_3 standard by 2022, the 1997 8-hour O_3 standard by 2023, and the 2008 8-hour O_3 standard by 2031.[11] The 2016 AQMP prescribes a variety of current and proposed new control measures, including a request to the USEPA for increased regulation of mobile source emissions. The NO_x control measures will also help the SCAB attain the 24-hour standard for $PM_{2.5}$.

FEDERAL AND STATE ATTAINMENT STATUS

Table 4 shows the most recently available (September 2018) attainment status of the SCAB for each criteria pollutant under the NAAQS and CAAQS.

Table 4
Federal and State Attainment Status

Criteria Pollutant	Federal Status	State Status
Ozone (O_3)	1- and 8-Hour: Nonattainment (Extreme)	1- and 8-Hour: Nonattainment
Particulate Matter (PM_{10})	Maintenance	Nonattainment
Fine Particulate Matter ($PM_{2.5}$)	Nonattainment	Non-Attainment
Carbon Monoxide (CO)	Maintenance	Attainment
Nitrogen Dioxide (NO_2)	Maintenance	Attainment

[10] Letter from Wayne Nastri, Executive Officer, South Coast Air Quality Management District, Diamond Bar, CA to Richard Corey, Executive Officer, California Air Resources Board, Sacramento, California re Submittal of 2016 Air Quality Management Plan. http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management- plans/2016-air-quality-management-plan/final-2016-aqmp/sipsubmittal.pdf?sfvrsn=6.

[11] SCAQMD. Final 2016 Air Quality Management Plan. Executive Summary. South Coast Air Quality Management District, Diamond Bar, CA. http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air- quality-management-plan/final-2016-aqmp/executive-summary.pdf?sfvrsn=4.

Table 4
Federal and State Attainment Status

Criteria Pollutant	Federal Status	State Status
Sulfur Dioxide (SO_2)	Attainment	Attainment

Source: SCAQMD. 2018. NAAQS and CAAQS Attainment Status for South Coast Air Basin http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=14.

SENSITIVE RECEPTORS

Some people, such as individuals with respiratory illnesses or impaired lung function because of other illnesses, persons over 65 years of age, and children under 14, are particularly sensitive to certain pollutants. Facilities and structures where these sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses identified to be sensitive receptors in the *CEQA Air Quality Handbook* include residences, schools, playgrounds, child care centers, athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. Sensitive receptors may be at risk of being affected by air emissions released from the construction and operation of the proposed Project.

The nearest sensitive receptors to the proposed Project site, with the highest potential to be impacted by the proposed Project, are listed in Table 5.

Table 5
Nearest Sensitive Receptors

	Sensitive Receptor Name	Location	Distance from Proposed Project (Feet)
1	ComforCare Home Care	20121 Ventura Blvd #210 Woodland Hills, CA 91364 Latitude: 34.170648 Longitude: -118.571813	157
2	Sunrise of Woodland Hills	20461 Ventura Blvd Woodland Hills, CA 91364 Latitude: 34.168341 Longitude: -118.578551	262
3	Temple Kol Tikvah Synagogue	20400 Ventura Blvd. #2324 Woodland Hills, CA 91364 Latitude: 34.168958 Longitude: -118.576432	95
4	Private Residence	5323 Del Moreno Drive Woodland Hills, CA 93164 Latitude: 34.167344 Longitude: -118.576286	46

CEQA IMPACT REVIEW CRITERIA

In accordance with *State CEQA Guidelines* Appendix G, implementation of the Project would result in a potentially significant impact if it were to:

- Conflict with or obstruct implementation of the applicable air quality plan.

- Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (e.g., those leading to odors) adversely affecting a substantial number of people.

Where available, the significance criteria established by the applicable air quality management district (AQMD) or air pollution control district (APCD) may be relied upon to make the significance determinations.

EMISSION THRESHOLDS FOR REGIONAL AIR QUALITY IMPACTS

The SCAQMD has developed criteria for determining whether emissions from a project are regionally significant. They are useful for estimating whether a project is likely to result in a violation of the NAAQS and/or whether the project is in conformity with plans to achieve attainment. The SCAQMD no longer has "indirect source" rules (e.g., rules that place restrictions on housing or commercial development, or require reductions in trip generation and/or VMT to developed commercial or industrial sites). Instead, the SCAQMD has published guidance on conducting air quality analyses under CEQA, which was updated in 2016. SCAQMD's significance thresholds are summarized in Table 6 for criteria pollutant emissions during construction activities and Project operation. A project is considered to have a regional air quality impact if emissions from its construction and/or operational activities exceed the corresponding SCAQMD significance thresholds.

Table 6
SCAQMD Emissions Thresholds for Significant Regional Impacts

Sensitive Receptor Name	Mass Daily Thresholds (lbs/day)	
	Construction	Operation
Nitrogen Oxides (NO_x)	100	55
Volatile Organic Compounds (VOC)	75	55
Respirable Particulate Matter (PM_{10})	150	150
Fine Particulate Matter ($PM_{2.5}$)	55	55
Sulfur Oxides (SO_x)	150	150
Carbon Monoxide (CO)	550	550
Lead	3	3

Source: SCAQMD. 2015. SCAQMD Air Quality Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2.

EMISSION THRESHOLDS FOR LOCALIZED AIR QUALITY IMPACTS

As part of its environmental justice program to address localized air quality impacts of development projects, SCAQMD developed localized significance thresholds (LSTs) in 2003.[12] LSTs represent the maximum NO_x, CO, PM_{10}, and $PM_{2.5}$ emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or State ambient air quality standard. NO_x and CO LSTs are based on the ambient concentrations of that pollutant for each SRA and distance to the nearest off-site receptor. For PM_{10}, LSTs were derived based on requirements in SCAQMD Rule 403. Note that the LST analysis does not apply to ROG emissions, since there is no ambient air quality standard for ROG.

[12] Chico, T. and Koizumi, J. 2003. Final Localized Significance Threshold Methodology: South Coast Air Quality Management District, Diamond Bar, CA.

For the purposes of a CEQA analysis, the SCAQMD considers a sensitive receptor to be a receptor such as a residence, hospital, or convalescent facility where it is possible that an individual could remain for 24 hours or longer. Commercial and industrial facilities are not included in the definition of sensitive receptor, because employees typically are present for shorter periods of time, such as 8 hours. Therefore, applying a 24-hour standard for PM_{10} is appropriate not only because the averaging period for the state standard is 24 hours, but because the sensitive receptor would be present at the location for the full 24 hours.

The SCAQMD has developed mass rate look-up tables that can be used to determine whether a project may generate significant localized air quality impacts to offsite receptors (including sensitive receptors). Note that the use of LSTs is voluntary, to be implemented at the discretion of the Lead Agency pursuant to CEQA.

IMPACTS OF CARBON MONOXIDE HOTSPOTS

Because the proposed Project would not result in an increase in traffic at local intersections, the potential for creation of CO "hotspots" would be negligible.

METHODOLOGY

Estimated regional air emissions from on-site and off-site construction activities associated with the proposed Project were calculated using the California Emissions Estimator Model (CalEEMod), Version 2016.3.2. CalEEMod is a planning tool for estimating emissions related to land use projects. The model incorporates EMFAC2014 emission factors to estimate on-road vehicle emissions; and emission factors and assumptions from the ARB's OFFROAD2011 model to estimate off-road construction equipment emissions. Model-predicted Project emissions are compared with applicable thresholds to assess regional air quality impacts.

CalEEMod uses many default assumptions based upon surveys of various types of construction projects. However, the user may override the default values where project-specific data are available. LAUSD provided a set of construction equipment assumptions for this Project, contained within the IS Project Description. Assumptions included:

- Total construction duration of 40 months.
- One 40-month phase, each comprised of five non-overlapping subphases.
- Less than five acres would be disturbed at any given time.

Table 7 lists the construction equipment types and characteristics used in the modelling and Table 8 shows the timing of the main phases and subphases.

Table 7
Construction Equipment Assumptions

Subphase	Equipment Type	Pieces	Hours per Day
Demolition	Excavator with Breaker	1	8
	Loader	1	8
	Bobcat/Skip	1	8
	Crushing Equipment	1	8
	Water Truck	1	8
	Building Debris Haul Trips; average 10 CY end-dump trucks	10	8

Table 7
Construction Equipment Assumptions

Subphase	Equipment Type	Pieces	Hours per Day
	Asphalt/Concrete Debris Haul Trips; average 10 CY end-dump trucks	10	8
	Jack Hammers	2	8
Grading	Excavator	1	8
	Compactor	1	8
	Loader	1	8
	Skip Loader	1	8
	Water Truck	1	8
	Soil haul trips (soil export); average 14 CY bottom dump trucks	35	8
	Vibratory Rollers	2	8
	Trencher/Excavator	1	8
Building Construction	Concrete Trucks	5	8
	Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	1	8
	Concrete Pump	1	8
	Crane	1	8
	Dump Trucks	2	8
	Fork Lifts/Gradalls	4	8
	Delivery Trucks	12	8
	Backhoes	2	8
	Water Truck	1	8
Building Interiors	Air Compressor	1	8
Asphalt Paving and Site Improvements	Skip Loaders	2	8
	Roller	1	8
	Paver	1	8
	Asphalt Trucks	8	8
	Water Truck	1	8

Table 8
Assumed Project Schedule

Sensitive Receptor Name	Starting Date	Ending Date
Demolition	June 1, 2022	August 15, 2022
Grading	August 19, 2022	December 30, 2022
Building Construction	January 2, 2023	February 28, 2025
Building Interior Construction	March 3, 2025	May 30, 2025

Table 8
Assumed Project Schedule

Sensitive Receptor Name	Starting Date	Ending Date
Paving	June 2, 2025	September 30, 2025

CONSTRUCTION IMPACTS

Construction activities associated with the proposed Project would generate short-term air quality impacts at the Campus and in the surrounding vicinity. On-site air pollutant emissions consist of exhaust emissions from off-road heavy-duty construction equipment as well as fugitive particulate matter from earth work and soil export. Off-site emissions result from workers commuting to and from the Project site, as well as from trucks hauling materials to the site and construction debris from the Project site for disposal.

Emissions of criteria pollutants during proposed Project construction were estimated using the construction module of CalEEMod, Version 2016.3.2. All modeling output files and additional assumptions are provided in Attachment 1.

It was also assumed that the construction contractor would comply with all pertinent provisions of SCAQMD Rule 403 and applicable LAUSD SCs for air quality. Equipment exhaust emissions were determined using CalEEMod default values for horsepower and load factors. Table 9 shows the model's estimates of maximum daily construction emissions for the proposed Project.

Table 9
Maximum Daily Unmitigated Regional Construction Emissions

	Maximum Emissions (lbs/day)				
	ROG	NO_x	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions (With Rule 403)	9	17	16	<1	<1
SCAQMD Significance Thresholds	*75*	*400*	*550*	*150*	*55*
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**

For each criteria pollutant, construction emissions would be below the SCAQMD significance threshold. Therefore, the proposed Project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation. Construction emissions would be less than significant.

CONSTRUCTION IMPACTS ON SENSITIVE RECEPTORS

Sensitive receptors are persons who are more susceptible to air pollution than the general population, such as children, athletes, the elderly, and the chronically ill. Examples of land uses where substantial numbers of sensitive receptors are often found are schools, daycare centers, parks, recreational areas, medical facilities, nursing homes, and convalescent care facilities. Residential areas are also considered to be sensitive to air pollution because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to pollutants. Students on campus were also evaluated as sensitive receptors. As shown in Table 5, the nearest off-site sensitive receptors are two assisted living facilities (one on the north side of the school and another to the west), and a synagogue on the west of the school.

Following SCAQMD guidance, only on-site construction emissions of NO_x, CO, PM_{10}, and $PM_{2.5}$ were considered in the localized significance analysis. According to the CalEEMod analysis, the highest on-site emissions of all pollutants would occur during demolition. It was estimated that, as a worst case, the maximum daily disturbance for demolition and for new building construction would be 0.8 acre and a conservative 1 acre, respectively.

LSTs were obtained by interpolation from tables in Appendix C of the SCAQMD's *Final Localized Significance Threshold Methodology*.[13] Table 10 through Table 13 show the results of the localized significance analysis for the proposed Project. For the unmitigated scenario, no criteria pollutant emissions would exceed their threshold for significance. Therefore, localized air pollution impacts are less than significant without mitigation.

Table 10
Localized Significance Analysis for Comforcare Home Care

Construction Activity	Area (acres)	Distance (meters)	NO_x	CO	PM_{10}	$PM_{2.5}$
Phase I	1	157				
Projected Emissions (lbs/day)			17	16	<1	<1
LSA Threshold (lbs/day)			140	1,663	12	4
Significant?			**No**	**No**	**No**	**No**

Sources:
Emissions calculated by Wood with CalEEMod (Version 2016.3.2).
Chico, T. and Koizumi, J. 2003. Final Localized Significance Threshold Methodology. SCAQMD, Diamond Bar, California. June.
Thresholds interpolated linearly between distances and then between acreages. Thresholds are for SRA 6 (West San Fernando Valley).
Notes: Maximum emissions of NO_x, CO, $PM_{2.5}$, and PM_{10} would occur during building demolition.

Table 11
Localized Significance Analysis for Sunrise of Woodland Hills

Construction Activity	Area (acres)	Distance (meters)	NO_x	CO	PM_{10}	$PM_{2.5}$
Phase I	1	262				
Projected Emissions (lbs/day)			17	16	1	1
LSA Threshold (lbs/day)			174	3,071	20	8
Significant?			**No**	**No**	**No**	**No**

Sources:
Emissions calculated by Wood with CalEEMod (Version 2016.3.2).
Chico, T. and Koizumi, J. 2003. Final Localized Significance Threshold Methodology. SCAQMD, Diamond Bar, California. June.
Thresholds interpolated linearly between distances and then between acreages. Thresholds are for SRA 6 (West San Fernando Valley).
Notes: Maximum emissions of NO_x, CO, $PM_{2.5}$, and PM_{10} would occur during building demolition.

[13] Chico, T. and Koizumi, J. 2003. Final Localized Significance Threshold Methodology: South Coast Air Quality Management District, Diamond Bar, CA.

Table 12
Localized Significance Analysis for Temple Kol Tikvah Synagogue

Construction Activity	Area (acres)	Distance (meters)	NO_x	CO	PM_{10}	$PM_{2.5}$
Phase I	1	95				
Projected Emissions (lbs/day)			17	16	<1	<1
LSA Threshold (lbs/day)			119	1,045	7	2
Significant?			**No**	**No**	**No**	**No**

Sources:
Emissions calculated by Wood with CalEEMod (Version 2016.3.2).
Chico, T. and Koizumi, J. 2003. Final Localized Significance Threshold Methodology. SCAQMD, Diamond Bar, California. June.
Thresholds interpolated linearly between distances and then between acreages. Thresholds are for SRA 6 (West San Fernando Valley).
Notes: Maximum emissions of NO_x, CO, $PM_{2.5}$, and PM_{10} would occur during building demolition.

Table 13
Localized Significance Analysis for Del Moreno Drive Residence

Construction Activity	Area (acres)	Distance (meters)	NO_x	CO	PM_{10}	$PM_{2.5}$
Phase I	1	46				
Projected Emissions (lbs/day)			17	16	<1	<1
LSA Threshold (lbs/day)			104	616	3	1
Significant?			**No**	**No**	**No**	**No**

Sources:
Emissions calculated by Wood with CalEEMod (Version 2016.3.2).
Chico, T. and Koizumi, J. 2003. Final Localized Significance Threshold Methodology. SCAQMD, Diamond Bar, California. June.
Thresholds interpolated linearly between distances and then between acreages. Thresholds are for SRA 6 (West San Fernando Valley).
Notes: Maximum emissions of NO_x, CO, $PM_{2.5}$, and PM_{10} would occur during building demolition.

Although sensitive receptors would be exposed to diesel exhaust from construction equipment, which has been associated with lung cancer,[14] the duration of exposure would not be sufficient to result in a significant cancer risk. Carcinogenic health risk assessments are based upon an assumption of 70 years of continuous exposure, while the exposure for the proposed Project would occur for about 1,041 working days. Therefore, no cancer health risk assessment was necessary. Acute non-cancer risk assessments are based upon one-hour maximum exposures, but acute reference exposure levels (RELs) for diesel exhaust and diesel particulate matter have not been established by the OEHHA.

OPERATIONAL IMPACTS

The Project would replace or upgrade facilities on the Campus, but it would not increase the number of students or faculty at the school and would not introduce new emission sources. As such, 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 related

[14] OEHHA. 1998. Part B: Health Risk Assessment for Diesel Exhaust. Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant. California Environmental Protection Agency.

to space heating and other on-site sources. Therefore, there would be no net increase in regional emissions of any criteria pollutant, and the impact would be less than significant.

ODOR ANALYSIS

The SUP Program EIR found that schools are not one of the types of land uses typically associated with malodorous emissions (e.g., wastewater treatment plants, fiberglass manufacturing facilities, etc.). Further, while landscaping equipment (e.g., lawnmowers and leaf blowers), generate exhaust fumes, the associated odors would be temporary. In any event, whatever odors are associated with campus operations would not change as a result of the proposed Project. Short-term construction-related odors would cease upon completion of construction. Therefore, odor impacts associated with the proposed Project would be less than significant.

CONFORMITY WITH AIR QUALITY MANAGEMENT PLAN

Neither the Taft Charter 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 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. Finally, as discussed below, the projected emissions from the Project would not exceed the SCAQMD's regional significance thresholds. 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. Impacts would be less than significant.

EMISSION REDUCTION MEASURES

LAUSD has established and recently adopted SCs that are applied to LAUSD construction, upgrade, and improvement projects during the environmental review process by the OEHS CEQA team to offset potential environmental impacts. Applicable SCs related to air quality impacts associated with the proposed Project are provided below.

LAUSD Standard Conditions of Approval	
SC-AQ-2	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	Construction Contractor shall: • Maintain speeds of 15 miles per hour (mph) or less 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 haul 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 analyze air quality impacts: If site-specific review or monitoring data 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.

Construction bid contracts shall include protocols that 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. The Construction Contractor shall be responsible for documenting compliance with the identified protocols. Specific air emission reduction protocols 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 a.m. AM and 3:00 p.m.).
- Consolidate truck deliveries and limit the number of haul trips per day.
- Route construction trucks off congested streets, as permitted by local jurisdiction haul routes.
- Employ high pressure fuel injection systems or engine timing retardation.
- Use ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment.
- Use construction equipment rated by the USEPA as having at least 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.
- Use electrical power rather than internal combustion engine power generators.
- Use electric or alternatively fueled equipment, as feasible.
- Use construction equipment with the minimum practical engine size.
- Use 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 manufacturer's specification to all inactive construction areas (previously graded areas inactive for 10 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 unimproved construction roads that have a traffic volume or more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles.
- Pave all unimproved construction access roads for at least 100 feet from the main road to the Project site.
- 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 5% or greater silt content.
- Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 mph.
- Water disturbed areas of the active construction and unpaved road surfaces at least three times daily, except during periods of rainfall.
- Limit traffic speeds on unpaved roads to 15 mph or less.
- Prohibit 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

LAUSD Standard Conditions of Approval	
	• Use ultra-low volatile organic compound (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). • Prepare and implement 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.

Taft Charter High School Comprehensive Modernization Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	71.34	1000sqft	1.64	71,336.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2025
Utility Company	Southern California Edison				
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 -

Land Use - Project details from MND Section 3, Project Description. Unit amount equates to sum of new construction and rennovation

Construction Phase - Building Construction schedule per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Trips and VMT - Default worker trips in absence of Project-specific details. Vendor and Hauling trips per Table 3 of MND Section 3, Project Description

Demolition -

Grading - Grading based on total area of new development and landscape/sports field improvements

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	77.00
tblConstructionPhase	NumDays	200.00	677.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	4.00	118.00
tblConstructionPhase	NumDays	10.00	104.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	71,340.00	71,336.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	155.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	70.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00

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					
2022	0.1456	1.3493	1.2913	2.3700e-003	0.0322	0.0685	0.1007	5.9100e-003	0.0636	0.0695	0.0000	207.0470	207.0470	0.0570	0.0000	208.4710
2023	0.2948	2.4806	2.2732	5.6300e-003	0.0631	0.1073	0.1704	0.0170	0.1007	0.1177	0.0000	485.4315	485.4315	0.1155	0.0000	488.3192
2024	0.2857	2.3708	2.2675	5.6600e-003	0.0635	0.0984	0.1619	0.0171	0.0925	0.1096	0.0000	487.3068	487.3068	0.1162	0.0000	490.2120
2025	0.4239	0.7675	0.9091	2.1300e-003	0.0229	0.0308	0.0536	6.1800e-003	0.0289	0.0351	0.0000	185.7505	185.7505	0.0444	0.0000	186.8604
Maximum	**0.4239**	**2.4806**	**2.2732**	**5.6600e-003**	**0.0635**	**0.1073**	**0.1704**	**0.0171**	**0.1007**	**0.1177**	**0.0000**	**487.3068**	**487.3068**	**0.1162**	**0.0000**	**490.2120**

2.1 Overall Construction

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					
2022	0.1456	1.3493	1.2913	2.3700e-003	0.0322	0.0685	0.1007	5.9100e-003	0.0636	0.0695	0.0000	207.0467	207.0467	0.0570	0.0000	208.4708
2023	0.2948	2.4806	2.2732	5.6300e-003	0.0631	0.1073	0.1704	0.0170	0.1007	0.1177	0.0000	485.4311	485.4311	0.1155	0.0000	488.3187
2024	0.2857	2.3708	2.2675	5.6600e-003	0.0635	0.0984	0.1619	0.0171	0.0925	0.1096	0.0000	487.3064	487.3064	0.1162	0.0000	490.2116
2025	0.4239	0.7675	0.9091	2.1300e-003	0.0229	0.0308	0.0536	6.1800e-003	0.0289	0.0351	0.0000	185.7503	185.7503	0.0444	0.0000	186.8602
Maximum	**0.4239**	**2.4806**	**2.2732**	**5.6600e-003**	**0.0635**	**0.1073**	**0.1704**	**0.0171**	**0.1007**	**0.1177**	**0.0000**	**487.3064**	**487.3064**	**0.1162**	**0.0000**	**490.2116**

	ROG	NOx	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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	**6-1-2022**	**8-31-2022**	0.7170	0.7170
2	**9-1-2022**	**11-30-2022**	0.5824	0.5824
3	**12-1-2022**	**2-28-2023**	0.6342	0.6342
4	**3-1-2023**	**5-31-2023**	0.7009	0.7009
5	**6-1-2023**	**8-31-2023**	0.7007	0.7007
6	**9-1-2023**	**11-30-2023**	0.6935	0.6935
7	**12-1-2023**	**2-29-2024**	0.6714	0.6714
8	**3-1-2024**	**5-31-2024**	0.6666	0.6666

9	**6-1-2024**	**8-31-2024**	0.6664	0.6664
10	**9-1-2024**	**11-30-2024**	0.6596	0.6596
11	**12-1-2024**	**2-28-2025**	0.8949	0.8949
12	**3-1-2025**	**5-31-2025**	0.3958	0.3958
13	**6-1-2025**	**8-31-2025**	0.2851	0.2851
14	**9-1-2025**	**9-30-2025**	0.0940	0.0940
		Highest	0.8949	0.8949

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive 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					
Area	0.2909	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7700e-003	1.7700e-003	0.0000	0.0000	1.8900e-003
Energy	4.0000e-003	0.0364	0.0306	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	174.1470	174.1470	6.3100e-003	1.8800e-003	174.8637
Mobile	0.2063	0.9943	3.0588	0.0128	1.1662	9.6600e-003	1.1759	0.3125	8.9800e-003	0.3215	0.0000	1,182.9158	1,182.9158	0.0539	0.0000	1,184.2635
Waste						0.0000	0.0000		0.0000	0.0000	18.8254	0.0000	18.8254	1.1126	0.0000	46.6391
Water						0.0000	0.0000		0.0000	0.0000	0.7515	31.3900	32.1415	0.0785	2.0900e-003	34.7266
Total	**0.5012**	**1.0307**	**3.0903**	**0.0130**	**1.1662**	**0.0124**	**1.1786**	**0.3125**	**0.0117**	**0.3243**	**19.5769**	**1,388.4546**	**1,408.0315**	**1.2513**	**3.9700e-003**	**1,440.4948**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive 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					
Area	0.2909	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7700e-003	1.7700e-003	0.0000	0.0000	1.8900e-003
Energy	4.0000e-003	0.0364	0.0306	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	174.1470	174.1470	6.3100e-003	1.8800e-003	174.8637
Mobile	0.2063	0.9943	3.0588	0.0128	1.1662	9.6600e-003	1.1759	0.3125	8.9800e-003	0.3215	0.0000	1,182.9158	1,182.9158	0.0539	0.0000	1,184.2635
Waste						0.0000	0.0000		0.0000	0.0000	18.8254	0.0000	18.8254	1.1126	0.0000	46.6391
Water						0.0000	0.0000		0.0000	0.0000	0.7515	31.3900	32.1415	0.0785	2.0900e-003	34.7266
Total	**0.5012**	**1.0307**	**3.0903**	**0.0130**	**1.1662**	**0.0124**	**1.1786**	**0.3125**	**0.0117**	**0.3243**	**19.5769**	**1,388.4546**	**1,408.0315**	**1.2513**	**3.9700e-003**	**1,440.4948**

	ROG	NOx	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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	6/1/2022	8/15/2022	6	65	
2	Grading	Grading	8/16/2022	12/30/2022	6	118	
3	Building Construction	Building Construction	1/2/2023	2/28/2025	6	677	
4	Building Construction (Interior)	Architectural Coating	3/3/2025	5/30/2025	6	77	
5	Paving	Paving	6/2/2025	9/30/2025	6	104	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 107,004; Non-Residential Outdoor: 35,668; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Dumpers/Tenders	1	7.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	7.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rollers	2	7.00	80	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Bore/Drill Rigs	1	7.00	221	0.50
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Dumpers/Tenders	9	8.00	16	0.38
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction (Interior)	Air Compressors	1	8.00	78	0.48
Paving	Dumpers/Tenders	1	7.00	16	0.38
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Rubber Tired Loaders	1	8.00	203	0.36

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	6	13.00	0.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	8.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Interior)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust					0.0167	0.0000	0.0167	2.5300e-003	0.0000	2.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0591	0.5462	0.4879	8.6000e-004		0.0268	0.0268		0.0251	0.0251	0.0000	75.0807	75.0807	0.0189	0.0000	75.5528
Total	**0.0591**	**0.5462**	**0.4879**	**8.6000e-004**	**0.0167**	**0.0268**	**0.0435**	**2.5300e-003**	**0.0251**	**0.0277**	**0.0000**	**75.0807**	**75.0807**	**0.0189**	**0.0000**	**75.5528**

3.2 Demolition - 2022

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	1.6000e-004	5.1400e-003	1.2800e-003	2.0000e-005	3.4000e-004	1.0000e-005	3.6000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	1.5065	1.5065	1.0000e-004	0.0000	1.5091
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	1.7000e-003	1.2800e-003	0.0147	4.0000e-005	4.6300e-003	4.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.0313	4.0313	1.1000e-004	0.0000	4.0341
Total	**1.8600e-003**	**6.4200e-003**	**0.0160**	**6.0000e-005**	**4.9700e-003**	**5.0000e-005**	**5.0300e-003**	**1.3200e-003**	**4.0000e-005**	**1.3700e-003**	**0.0000**	**5.5378**	**5.5378**	**2.1000e-004**	**0.0000**	**5.5432**

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					0.0167	0.0000	0.0167	2.5300e-003	0.0000	2.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0591	0.5462	0.4879	8.6000e-004		0.0268	0.0268		0.0251	0.0251	0.0000	75.0807	75.0807	0.0189	0.0000	75.5527
Total	**0.0591**	**0.5462**	**0.4879**	**8.6000e-004**	**0.0167**	**0.0268**	**0.0435**	**2.5300e-003**	**0.0251**	**0.0277**	**0.0000**	**75.0807**	**75.0807**	**0.0189**	**0.0000**	**75.5527**

3.2 Demolition - 2022

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	1.6000e-004	5.1400e-003	1.2800e-003	2.0000e-005	3.4000e-004	1.0000e-005	3.6000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	1.5065	1.5065	1.0000e-004	0.0000	1.5091
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	1.7000e-003	1.2800e-003	0.0147	4.0000e-005	4.6300e-003	4.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.0313	4.0313	1.1000e-004	0.0000	4.0341
Total	**1.8600e-003**	**6.4200e-003**	**0.0160**	**6.0000e-005**	**4.9700e-003**	**5.0000e-005**	**5.0300e-003**	**1.3200e-003**	**4.0000e-005**	**1.3700e-003**	**0.0000**	**5.5378**	**5.5378**	**2.1000e-004**	**0.0000**	**5.5432**

3.3 Grading - 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					
Fugitive Dust					4.7700e-003	0.0000	4.7700e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0824	0.7862	0.7687	1.3700e-003		0.0416	0.0416		0.0384	0.0384	0.0000	119.2886	119.2886	0.0376	0.0000	120.2275
Total	**0.0824**	**0.7862**	**0.7687**	**1.3700e-003**	**4.7700e-003**	**0.0416**	**0.0464**	**5.2000e-004**	**0.0384**	**0.0389**	**0.0000**	**119.2886**	**119.2886**	**0.0376**	**0.0000**	**120.2275**

3.3 Grading - 2022

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	2.8000e-004	8.9900e-003	2.2300e-003	3.0000e-005	6.0000e-004	3.0000e-005	6.3000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.6363	2.6363	1.8000e-004	0.0000	2.6409
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	1.9000e-003	1.4300e-003	0.0165	5.0000e-005	5.1700e-003	4.0000e-005	5.2100e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.5036	4.5036	1.2000e-004	0.0000	4.5067
Total	**2.1800e-003**	**0.0104**	**0.0187**	**8.0000e-005**	**5.7700e-003**	**7.0000e-005**	**5.8400e-003**	**1.5400e-003**	**6.0000e-005**	**1.6000e-003**	**0.0000**	**7.1399**	**7.1399**	**3.0000e-004**	**0.0000**	**7.1476**

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					4.7700e-003	0.0000	4.7700e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0824	0.7862	0.7687	1.3700e-003		0.0416	0.0416		0.0384	0.0384	0.0000	119.2884	119.2884	0.0376	0.0000	120.2274
Total	**0.0824**	**0.7862**	**0.7687**	**1.3700e-003**	**4.7700e-003**	**0.0416**	**0.0464**	**5.2000e-004**	**0.0384**	**0.0389**	**0.0000**	**119.2884**	**119.2884**	**0.0376**	**0.0000**	**120.2274**

3.3 Grading - 2022

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	2.8000e-004	8.9900e-003	2.2300e-003	3.0000e-005	6.0000e-004	3.0000e-005	6.3000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.6363	2.6363	1.8000e-004	0.0000	2.6409
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	1.9000e-003	1.4300e-003	0.0165	5.0000e-005	5.1700e-003	4.0000e-005	5.2100e-003	1.3700e-003	4.0000e-005	1.4100e-003	0.0000	4.5036	4.5036	1.2000e-004	0.0000	4.5067
Total	**2.1800e-003**	**0.0104**	**0.0187**	**8.0000e-005**	**5.7700e-003**	**7.0000e-005**	**5.8400e-003**	**1.5400e-003**	**6.0000e-005**	**1.6000e-003**	**0.0000**	**7.1399**	**7.1399**	**3.0000e-004**	**0.0000**	**7.1476**

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	0.2730	2.3352	2.0807	4.7000e-003		0.1068	0.1068		0.1002	0.1002	0.0000	398.1042	398.1042	0.1120	0.0000	400.9038
Total	**0.2730**	**2.3352**	**2.0807**	**4.7000e-003**		**0.1068**	**0.1068**		**0.1002**	**0.1002**	**0.0000**	**398.1042**	**398.1042**	**0.1120**	**0.0000**	**400.9038**

3.4 Building Construction - 2023

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	4.0500e-003	0.1326	0.0425	4.6000e-004	0.0118	1.5000e-004	0.0120	3.4000e-003	1.5000e-004	3.5500e-003	0.0000	44.3070	44.3070	2.4100e-003	0.0000	44.3673
Worker	0.0178	0.0128	0.1500	4.8000e-004	0.0513	4.0000e-004	0.0517	0.0136	3.7000e-004	0.0140	0.0000	43.0204	43.0204	1.1100e-003	0.0000	43.0481
Total	**0.0218**	**0.1454**	**0.1925**	**9.4000e-004**	**0.0631**	**5.5000e-004**	**0.0636**	**0.0170**	**5.2000e-004**	**0.0175**	**0.0000**	**87.3274**	**87.3274**	**3.5200e-003**	**0.0000**	**87.4154**

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	0.2730	2.3352	2.0807	4.7000e-003		0.1068	0.1068		0.1002	0.1002	0.0000	398.1037	398.1037	0.1120	0.0000	400.9033
Total	**0.2730**	**2.3352**	**2.0807**	**4.7000e-003**		**0.1068**	**0.1068**		**0.1002**	**0.1002**	**0.0000**	**398.1037**	**398.1037**	**0.1120**	**0.0000**	**400.9033**

3.4 Building Construction - 2023

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	4.0500e-003	0.1326	0.0425	4.6000e-004	0.0118	1.5000e-004	0.0120	3.4000e-003	1.5000e-004	3.5500e-003	0.0000	44.3070	44.3070	2.4100e-003	0.0000	44.3673
Worker	0.0178	0.0128	0.1500	4.8000e-004	0.0513	4.0000e-004	0.0517	0.0136	3.7000e-004	0.0140	0.0000	43.0204	43.0204	1.1100e-003	0.0000	43.0481
Total	**0.0218**	**0.1454**	**0.1925**	**9.4000e-004**	**0.0631**	**5.5000e-004**	**0.0636**	**0.0170**	**5.2000e-004**	**0.0175**	**0.0000**	**87.3274**	**87.3274**	**3.5200e-003**	**0.0000**	**87.4154**

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	0.2648	2.2261	2.0855	4.7400e-003		0.0979	0.0979		0.0920	0.0920	0.0000	400.9398	400.9398	0.1128	0.0000	403.7596
Total	**0.2648**	**2.2261**	**2.0855**	**4.7400e-003**		**0.0979**	**0.0979**		**0.0920**	**0.0920**	**0.0000**	**400.9398**	**400.9398**	**0.1128**	**0.0000**	**403.7596**

3.4 Building Construction - 2024

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	3.9800e-003	0.1330	0.0415	4.6000e-004	0.0119	1.5000e-004	0.0120	3.4300e-003	1.5000e-004	3.5700e-003	0.0000	44.4133	44.4133	2.3900e-003	0.0000	44.4732
Worker	0.0169	0.0118	0.1405	4.6000e-004	0.0516	3.9000e-004	0.0520	0.0137	3.6000e-004	0.0141	0.0000	41.9537	41.9537	1.0200e-003	0.0000	41.9793
Total	**0.0209**	**0.1447**	**0.1820**	**9.2000e-004**	**0.0635**	**5.4000e-004**	**0.0640**	**0.0171**	**5.1000e-004**	**0.0176**	**0.0000**	**86.3671**	**86.3671**	**3.4100e-003**	**0.0000**	**86.4525**

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	0.2648	2.2261	2.0855	4.7400e-003		0.0979	0.0979		0.0920	0.0920	0.0000	400.9393	400.9393	0.1128	0.0000	403.7591
Total	**0.2648**	**2.2261**	**2.0855**	**4.7400e-003**		**0.0979**	**0.0979**		**0.0920**	**0.0920**	**0.0000**	**400.9393**	**400.9393**	**0.1128**	**0.0000**	**403.7591**

3.4 Building Construction - 2024

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	3.9800e-003	0.1330	0.0415	4.6000e-004	0.0119	1.5000e-004	0.0120	3.4300e-003	1.5000e-004	3.5700e-003	0.0000	44.4133	44.4133	2.3900e-003	0.0000	44.4732
Worker	0.0169	0.0118	0.1405	4.6000e-004	0.0516	3.9000e-004	0.0520	0.0137	3.6000e-004	0.0141	0.0000	41.9537	41.9537	1.0200e-003	0.0000	41.9793
Total	**0.0209**	**0.1447**	**0.1820**	**9.2000e-004**	**0.0635**	**5.4000e-004**	**0.0640**	**0.0171**	**5.1000e-004**	**0.0176**	**0.0000**	**86.3671**	**86.3671**	**3.4100e-003**	**0.0000**	**86.4525**

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	0.0414	0.3434	0.3371	7.7000e-004		0.0144	0.0144		0.0136	0.0136	0.0000	65.1289	65.1289	0.0183	0.0000	65.5869
Total	**0.0414**	**0.3434**	**0.3371**	**7.7000e-004**		**0.0144**	**0.0144**		**0.0136**	**0.0136**	**0.0000**	**65.1289**	**65.1289**	**0.0183**	**0.0000**	**65.5869**

3.4 Building Construction - 2025

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	6.3000e-004	0.0214	6.5600e-003	7.0000e-005	1.9300e-003	2.0000e-005	1.9500e-003	5.6000e-004	2.0000e-005	5.8000e-004	0.0000	7.1743	7.1743	3.8000e-004	0.0000	7.1839
Worker	2.6100e-003	1.7500e-003	0.0212	7.0000e-005	8.3800e-003	6.0000e-005	8.4500e-003	2.2300e-003	6.0000e-005	2.2800e-003	0.0000	6.5503	6.5503	1.5000e-004	0.0000	6.5541
Total	**3.2400e-003**	**0.0232**	**0.0277**	**1.4000e-004**	**0.0103**	**8.0000e-005**	**0.0104**	**2.7900e-003**	**8.0000e-005**	**2.8600e-003**	**0.0000**	**13.7246**	**13.7246**	**5.3000e-004**	**0.0000**	**13.7380**

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	0.0414	0.3434	0.3371	7.7000e-004		0.0144	0.0144		0.0136	0.0136	0.0000	65.1288	65.1288	0.0183	0.0000	65.5868
Total	**0.0414**	**0.3434**	**0.3371**	**7.7000e-004**		**0.0144**	**0.0144**		**0.0136**	**0.0136**	**0.0000**	**65.1288**	**65.1288**	**0.0183**	**0.0000**	**65.5868**

3.4 Building Construction - 2025

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	6.3000e-004	0.0214	6.5600e-003	7.0000e-005	1.9300e-003	2.0000e-005	1.9500e-003	5.6000e-004	2.0000e-005	5.8000e-004	0.0000	7.1743	7.1743	3.8000e-004	0.0000	7.1839
Worker	2.6100e-003	1.7500e-003	0.0212	7.0000e-005	8.3800e-003	6.0000e-005	8.4500e-003	2.2300e-003	6.0000e-005	2.2800e-003	0.0000	6.5503	6.5503	1.5000e-004	0.0000	6.5541
Total	**3.2400e-003**	**0.0232**	**0.0277**	**1.4000e-004**	**0.0103**	**8.0000e-005**	**0.0104**	**2.7900e-003**	**8.0000e-005**	**2.8600e-003**	**0.0000**	**13.7246**	**13.7246**	**5.3000e-004**	**0.0000**	**13.7380**

3.5 Building Construction (Interior) - 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					
Archit. Coating	0.3306					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7700e-003	0.0588	0.0929	1.5000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	13.1067	13.1067	7.1000e-004	0.0000	13.1246
Total	**0.3394**	**0.0588**	**0.0929**	**1.5000e-004**		**2.6400e-003**	**2.6400e-003**		**2.6400e-003**	**2.6400e-003**	**0.0000**	**13.1067**	**13.1067**	**7.1000e-004**	**0.0000**	**13.1246**

3.5 Building Construction (Interior) - 2025

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	7.9000e-004	5.3000e-004	6.4000e-003	2.0000e-005	2.5300e-003	2.0000e-005	2.5500e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	1.9779	1.9779	5.0000e-005	0.0000	1.9791
Total	**7.9000e-004**	**5.3000e-004**	**6.4000e-003**	**2.0000e-005**	**2.5300e-003**	**2.0000e-005**	**2.5500e-003**	**6.7000e-004**	**2.0000e-005**	**6.9000e-004**	**0.0000**	**1.9779**	**1.9779**	**5.0000e-005**	**0.0000**	**1.9791**

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	0.3306					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7700e-003	0.0588	0.0929	1.5000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	13.1067	13.1067	7.1000e-004	0.0000	13.1246
Total	**0.3394**	**0.0588**	**0.0929**	**1.5000e-004**		**2.6400e-003**	**2.6400e-003**		**2.6400e-003**	**2.6400e-003**	**0.0000**	**13.1067**	**13.1067**	**7.1000e-004**	**0.0000**	**13.1246**

3.5 Building Construction (Interior) - 2025

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	7.9000e-004	5.3000e-004	6.4000e-003	2.0000e-005	2.5300e-003	2.0000e-005	2.5500e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	1.9779	1.9779	5.0000e-005	0.0000	1.9791
Total	**7.9000e-004**	**5.3000e-004**	**6.4000e-003**	**2.0000e-005**	**2.5300e-003**	**2.0000e-005**	**2.5500e-003**	**6.7000e-004**	**2.0000e-005**	**6.9000e-004**	**0.0000**	**1.9779**	**1.9779**	**5.0000e-005**	**0.0000**	**1.9791**

3.6 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	0.0359	0.3110	0.4173	8.7000e-004		0.0135	0.0135		0.0125	0.0125	0.0000	76.2708	76.2708	0.0241	0.0000	76.8739
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0359**	**0.3110**	**0.4173**	**8.7000e-004**		**0.0135**	**0.0135**		**0.0125**	**0.0125**	**0.0000**	**76.2708**	**76.2708**	**0.0241**	**0.0000**	**76.8739**

3.6 Paving - 2025

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	8.6000e-004	0.0291	8.9200e-003	1.0000e-004	2.6200e-003	3.0000e-005	2.6500e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	9.7533	9.7533	5.2000e-004	0.0000	9.7664
Worker	2.3100e-003	1.5400e-003	0.0187	6.0000e-005	7.4100e-003	6.0000e-005	7.4600e-003	1.9700e-003	5.0000e-005	2.0200e-003	0.0000	5.7882	5.7882	1.3000e-004	0.0000	5.7916
Total	**3.1700e-003**	**0.0307**	**0.0276**	**1.6000e-004**	**0.0100**	**9.0000e-005**	**0.0101**	**2.7300e-003**	**8.0000e-005**	**2.8100e-003**	**0.0000**	**15.5416**	**15.5416**	**6.5000e-004**	**0.0000**	**15.5579**

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	0.0359	0.3110	0.4173	8.7000e-004		0.0135	0.0135		0.0125	0.0125	0.0000	76.2707	76.2707	0.0241	0.0000	76.8738
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0359**	**0.3110**	**0.4173**	**8.7000e-004**		**0.0135**	**0.0135**		**0.0125**	**0.0125**	**0.0000**	**76.2707**	**76.2707**	**0.0241**	**0.0000**	**76.8738**

3.6 Paving - 2025

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	8.6000e-004	0.0291	8.9200e-003	1.0000e-004	2.6200e-003	3.0000e-005	2.6500e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	9.7533	9.7533	5.2000e-004	0.0000	9.7664
Worker	2.3100e-003	1.5400e-003	0.0187	6.0000e-005	7.4100e-003	6.0000e-005	7.4600e-003	1.9700e-003	5.0000e-005	2.0200e-003	0.0000	5.7882	5.7882	1.3000e-004	0.0000	5.7916
Total	**3.1700e-003**	**0.0307**	**0.0276**	**1.6000e-004**	**0.0100**	**9.0000e-005**	**0.0101**	**2.7300e-003**	**8.0000e-005**	**2.8100e-003**	**0.0000**	**15.5416**	**15.5416**	**6.5000e-004**	**0.0000**	**15.5579**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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					
Mitigated	0.2063	0.9943	3.0588	0.0128	1.1662	9.6600e-003	1.1759	0.3125	8.9800e-003	0.3215	0.0000	1,182.9158	1,182.9158	0.0539	0.0000	1,184.2635
Unmitigated	0.2063	0.9943	3.0588	0.0128	1.1662	9.6600e-003	1.1759	0.3125	8.9800e-003	0.3215	0.0000	1,182.9158	1,182.9158	0.0539	0.0000	1,184.2635

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	919.57	311.76	127.70	3,073,327	3,073,327
Total	919.57	311.76	127.70	3,073,327	3,073,327

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	134.5567	134.5567	5.5600e-003	1.1500e-003	135.0381
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	134.5567	134.5567	5.5600e-003	1.1500e-003	135.0381
NaturalGas Mitigated	4.0000e-003	0.0364	0.0306	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	39.5903	39.5903	7.6000e-004	7.3000e-004	39.8256
NaturalGas Unmitigated	4.0000e-003	0.0364	0.0306	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	39.5903	39.5903	7.6000e-004	7.3000e-004	39.8256

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High School	741894	4.0000e-003	0.0364	0.0306	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	39.5903	39.5903	7.6000e-004	7.3000e-004	39.8256
Total		**4.0000e-003**	**0.0364**	**0.0306**	**2.2000e-004**		**2.7600e-003**	**2.7600e-003**		**2.7600e-003**	**2.7600e-003**	**0.0000**	**39.5903**	**39.5903**	**7.6000e-004**	**7.3000e-004**	**39.8256**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High School	741894	4.0000e-003	0.0364	0.0306	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	39.5903	39.5903	7.6000e-004	7.3000e-004	39.8256
Total		**4.0000e-003**	**0.0364**	**0.0306**	**2.2000e-004**		**2.7600e-003**	**2.7600e-003**		**2.7600e-003**	**2.7600e-003**	**0.0000**	**39.5903**	**39.5903**	**7.6000e-004**	**7.3000e-004**	**39.8256**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	422309	134.5567	5.5600e-003	1.1500e-003	135.0381
Total		**134.5567**	**5.5600e-003**	**1.1500e-003**	**135.0381**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	422309	134.5567	5.5600e-003	1.1500e-003	135.0381
Total		**134.5567**	**5.5600e-003**	**1.1500e-003**	**135.0381**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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					
Mitigated	0.2909	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7700e-003	1.7700e-003	0.0000	0.0000	1.8900e-003
Unmitigated	0.2909	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7700e-003	1.7700e-003	0.0000	0.0000	1.8900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7700e-003	1.7700e-003	0.0000	0.0000	1.8900e-003
Total	**0.2909**	**1.0000e-005**	**9.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7700e-003**	**1.7700e-003**	**0.0000**	**0.0000**	**1.8900e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2578					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	9.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7700e-003	1.7700e-003	0.0000	0.0000	1.8900e-003
Total	**0.2909**	**1.0000e-005**	**9.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7700e-003**	**1.7700e-003**	**0.0000**	**0.0000**	**1.8900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	32.1415	0.0785	2.0900e-003	34.7266
Unmitigated	32.1415	0.0785	2.0900e-003	34.7266

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	2.36882 / 6.09125	32.1415	0.0785	2.0900e-003	34.7266
Total		**32.1415**	**0.0785**	**2.0900e-003**	**34.7266**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	2.36882 / 6.09125	32.1415	0.0785	2.0900e-003	34.7266
Total		**32.1415**	**0.0785**	**2.0900e-003**	**34.7266**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.8254	1.1126	0.0000	46.6391
Unmitigated	18.8254	1.1126	0.0000	46.6391

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	92.74	18.8254	1.1126	0.0000	46.6391
Total		**18.8254**	**1.1126**	**0.0000**	**46.6391**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	92.74	18.8254	1.1126	0.0000	46.6391
Total		**18.8254**	**1.1126**	**0.0000**	**46.6391**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Taft Charter High School Comprehensive Modernization Project

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	71.34	1000sqft	1.64	71,336.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2025
Utility Company	Southern California Edison				
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 -

Land Use - Project details from MND Section 3, Project Description. Unit amount equates to sum of new construction and rennovation

Construction Phase - Building Construction schedule per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Trips and VMT - Default worker trips in absence of Project-specific details. Vendor and Hauling trips per Table 3 of MND Section 3, Project Description

Demolition -

Grading - Grading based on total area of new development and landscape/sports field improvements

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	77.00
tblConstructionPhase	NumDays	200.00	677.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	4.00	118.00
tblConstructionPhase	NumDays	10.00	104.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	71,340.00	71,336.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	155.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	70.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00

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					
2022	1.8746	16.9943	15.5343	0.0285	0.6707	0.8248	1.4955	0.1194	0.7744	0.8938	0.0000	2,740.8393	2,740.8393	0.7075	0.0000	2,757.0354
2023	1.8886	15.8822	14.6250	0.0363	0.4122	0.6881	1.1002	0.1111	0.6456	0.7566	0.0000	3,447.2767	3,447.2767	0.8161	0.0000	3,467.6795
2024	1.8186	15.0822	14.4929	0.0362	0.4122	0.6268	1.0390	0.1111	0.5891	0.7002	0.0000	3,438.1419	3,438.1419	0.8159	0.0000	3,458.5380
2025	8.8362	14.3564	14.3557	0.0361	0.4122	0.5698	0.9820	0.1111	0.5367	0.6477	0.0000	3,424.8299	3,424.8299	0.8151	0.0000	3,445.2065
Maximum	**8.8362**	**16.9943**	**15.5343**	**0.0363**	**0.6707**	**0.8248**	**1.4955**	**0.1194**	**0.7744**	**0.8938**	**0.0000**	**3,447.2767**	**3,447.2767**	**0.8161**	**0.0000**	**3,467.6795**

2.1 Overall Construction (Maximum Daily Emission)

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					
2022	1.8746	16.9943	15.5343	0.0285	0.6707	0.8248	1.4955	0.1194	0.7744	0.8938	0.0000	2,740.8392	2,740.8392	0.7075	0.0000	2,757.0354
2023	1.8886	15.8822	14.6250	0.0363	0.4122	0.6881	1.1002	0.1111	0.6456	0.7566	0.0000	3,447.2767	3,447.2767	0.8161	0.0000	3,467.6795
2024	1.8186	15.0822	14.4929	0.0362	0.4122	0.6268	1.0390	0.1111	0.5891	0.7002	0.0000	3,438.1419	3,438.1419	0.8159	0.0000	3,458.5380
2025	8.8362	14.3564	14.3557	0.0361	0.4122	0.5698	0.9820	0.1111	0.5367	0.6477	0.0000	3,424.8299	3,424.8299	0.8151	0.0000	3,445.2065
Maximum	**8.8362**	**16.9943**	**15.5343**	**0.0363**	**0.6707**	**0.8248**	**1.4955**	**0.1194**	**0.7744**	**0.8938**	**0.0000**	**3,447.2767**	**3,447.2767**	**0.8161**	**0.0000**	**3,467.6795**

	ROG	NOx	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive 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					
Area	1.5943	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Energy	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
Mobile	1.5234	6.6802	22.4887	0.0929	8.3493	0.0678	8.4171	2.2339	0.0630	2.2970		9,477.0688	9,477.0688	0.4209		9,487.5907
Total	**3.1397**	**6.8796**	**22.6633**	**0.0941**	**8.3493**	**0.0830**	**8.4323**	**2.2339**	**0.0782**	**2.3121**		**9,716.2123**	**9,716.2123**	**0.4255**	**4.3800e-003**	**9,728.1562**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive 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					
Area	1.5943	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Energy	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
Mobile	1.5234	6.6802	22.4887	0.0929	8.3493	0.0678	8.4171	2.2339	0.0630	2.2970		9,477.0688	9,477.0688	0.4209		9,487.5907
Total	**3.1397**	**6.8796**	**22.6633**	**0.0941**	**8.3493**	**0.0830**	**8.4323**	**2.2339**	**0.0782**	**2.3121**		**9,716.2123**	**9,716.2123**	**0.4255**	**4.3800e-003**	**9,728.1562**

	ROG	NOx	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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	6/1/2022	8/15/2022	6	65	
2	Grading	Grading	8/16/2022	12/30/2022	6	118	
3	Building Construction	Building Construction	1/2/2023	2/28/2025	6	677	
4	Building Construction (Interior)	Architectural Coating	3/3/2025	5/30/2025	6	77	
5	Paving	Paving	6/2/2025	9/30/2025	6	104	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 107,004; Non-Residential Outdoor: 35,668; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Dumpers/Tenders	1	7.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	7.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rollers	2	7.00	80	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Bore/Drill Rigs	1	7.00	221	0.50
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Dumpers/Tenders	9	8.00	16	0.38
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction (Interior)	Air Compressors	1	8.00	78	0.48
Paving	Dumpers/Tenders	1	7.00	16	0.38
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Rubber Tired Loaders	1	8.00	203	0.36

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	6	13.00	0.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	8.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Interior)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust					0.5146	0.0000	0.5146	0.0779	0.0000	0.0779			0.0000			0.0000
Off-Road	1.8175	16.8064	15.0129	0.0266		0.8232	0.8232		0.7730	0.7730		2,546.5337	2,546.5337	0.6404		2,562.5443
Total	**1.8175**	**16.8064**	**15.0129**	**0.0266**	**0.5146**	**0.8232**	**1.3378**	**0.0779**	**0.7730**	**0.8509**		**2,546.5337**	**2,546.5337**	**0.6404**		**2,562.5443**

3.2 Demolition - 2022

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	4.8800e-003	0.1534	0.0383	4.7000e-004	0.0108	4.4000e-004	0.0112	2.9500e-003	4.2000e-004	3.3700e-003		51.4729	51.4729	3.4800e-003		51.5600
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	0.0522	0.0346	0.4831	1.4300e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		142.8326	142.8326	3.9400e-003		142.9312
Total	**0.0571**	**0.1880**	**0.5214**	**1.9000e-003**	**0.1561**	**1.5800e-003**	**0.1577**	**0.0415**	**1.4700e-003**	**0.0430**		**194.3055**	**194.3055**	**7.4200e-003**		**194.4911**

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					0.5146	0.0000	0.5146	0.0779	0.0000	0.0779			0.0000			0.0000
Off-Road	1.8175	16.8064	15.0129	0.0266		0.8232	0.8232		0.7730	0.7730	0.0000	2,546.5337	2,546.5337	0.6404		2,562.5443
Total	**1.8175**	**16.8064**	**15.0129**	**0.0266**	**0.5146**	**0.8232**	**1.3378**	**0.0779**	**0.7730**	**0.8509**	**0.0000**	**2,546.5337**	**2,546.5337**	**0.6404**		**2,562.5443**

3.2 Demolition - 2022

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	4.8800e-003	0.1534	0.0383	4.7000e-004	0.0108	4.4000e-004	0.0112	2.9500e-003	4.2000e-004	3.3700e-003		51.4729	51.4729	3.4800e-003		51.5600
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	0.0522	0.0346	0.4831	1.4300e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		142.8326	142.8326	3.9400e-003		142.9312
Total	**0.0571**	**0.1880**	**0.5214**	**1.9000e-003**	**0.1561**	**1.5800e-003**	**0.1577**	**0.0415**	**1.4700e-003**	**0.0430**		**194.3055**	**194.3055**	**7.4200e-003**		**194.4911**

3.3 Grading - 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					
Fugitive Dust					0.0809	0.0000	0.0809	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	1.3971	13.3259	13.0291	0.0233		0.7047	0.7047		0.6504	0.6504		2,228.6970	2,228.6970	0.7017		2,246.2397
Total	**1.3971**	**13.3259**	**13.0291**	**0.0233**	**0.0809**	**0.7047**	**0.7856**	**8.7300e-003**	**0.6504**	**0.6591**		**2,228.6970**	**2,228.6970**	**0.7017**		**2,246.2397**

3.3 Grading - 2022

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	4.7100e-003	0.1478	0.0369	4.6000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.1000e-004	3.2500e-003		49.6190	49.6190	3.3600e-003		49.7029
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	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0368**	**0.1691**	**0.3342**	**1.3400e-003**	**0.0998**	**1.1200e-003**	**0.1009**	**0.0266**	**1.0500e-003**	**0.0276**		**137.5160**	**137.5160**	**5.7900e-003**		**137.6606**

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					0.0809	0.0000	0.0809	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	1.3971	13.3259	13.0291	0.0233		0.7047	0.7047		0.6504	0.6504	0.0000	2,228.6969	2,228.6969	0.7017		2,246.2397
Total	**1.3971**	**13.3259**	**13.0291**	**0.0233**	**0.0809**	**0.7047**	**0.7856**	**8.7300e-003**	**0.6504**	**0.6591**	**0.0000**	**2,228.6969**	**2,228.6969**	**0.7017**		**2,246.2397**

3.3 Grading - 2022

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	4.7100e-003	0.1478	0.0369	4.6000e-004	0.0104	4.2000e-004	0.0108	2.8400e-003	4.1000e-004	3.2500e-003		49.6190	49.6190	3.3600e-003		49.7029
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	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0368**	**0.1691**	**0.3342**	**1.3400e-003**	**0.0998**	**1.1200e-003**	**0.1009**	**0.0266**	**1.0500e-003**	**0.0276**		**137.5160**	**137.5160**	**5.7900e-003**		**137.6606**

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	1.7501	14.9693	13.3381	0.0302		0.6846	0.6846		0.6423	0.6423		2,813.0432	2,813.0432	0.7913		2,832.8253
Total	**1.7501**	**14.9693**	**13.3381**	**0.0302**		**0.6846**	**0.6846**		**0.6423**	**0.6423**		**2,813.0432**	**2,813.0432**	**0.7913**		**2,832.8253**

3.4 Building Construction - 2023

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	0.0254	0.8407	0.2603	2.9600e-003	0.0768	9.7000e-004	0.0778	0.0221	9.3000e-004	0.0231		316.6889	316.6889	0.0166		317.1046
Worker	0.1131	0.0722	1.0266	3.1900e-003	0.3353	2.5500e-003	0.3379	0.0889	2.3500e-003	0.0913		317.5446	317.5446	8.2000e-003		317.7497
Total	**0.1385**	**0.9129**	**1.2869**	**6.1500e-003**	**0.4122**	**3.5200e-003**	**0.4157**	**0.1111**	**3.2800e-003**	**0.1143**		**634.2335**	**634.2335**	**0.0248**		**634.8543**

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	1.7501	14.9693	13.3381	0.0302		0.6846	0.6846		0.6423	0.6423	0.0000	2,813.0432	2,813.0432	0.7913		2,832.8253
Total	**1.7501**	**14.9693**	**13.3381**	**0.0302**		**0.6846**	**0.6846**		**0.6423**	**0.6423**	**0.0000**	**2,813.0432**	**2,813.0432**	**0.7913**		**2,832.8253**

3.4 Building Construction - 2023

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	0.0254	0.8407	0.2603	2.9600e-003	0.0768	9.7000e-004	0.0778	0.0221	9.3000e-004	0.0231		316.6889	316.6889	0.0166		317.1046
Worker	0.1131	0.0722	1.0266	3.1900e-003	0.3353	2.5500e-003	0.3379	0.0889	2.3500e-003	0.0913		317.5446	317.5446	8.2000e-003		317.7497
Total	**0.1385**	**0.9129**	**1.2869**	**6.1500e-003**	**0.4122**	**3.5200e-003**	**0.4157**	**0.1111**	**3.2800e-003**	**0.1143**		**634.2335**	**634.2335**	**0.0248**		**634.8543**

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	1.6868	14.1788	13.2835	0.0302		0.6233	0.6233		0.5859	0.5859		2,815.0347	2,815.0347	0.7919		2,834.8329
Total	**1.6868**	**14.1788**	**13.2835**	**0.0302**		**0.6233**	**0.6233**		**0.5859**	**0.5859**		**2,815.0347**	**2,815.0347**	**0.7919**		**2,834.8329**

3.4 Building Construction - 2024

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	0.0248	0.8375	0.2523	2.9400e-003	0.0768	9.6000e-004	0.0778	0.0221	9.2000e-004	0.0230		315.4037	315.4037	0.0164		315.8135
Worker	0.1070	0.0659	0.9571	3.0900e-003	0.3353	2.5100e-003	0.3378	0.0889	2.3100e-003	0.0912		307.7035	307.7035	7.5300e-003		307.8916
Total	**0.1318**	**0.9034**	**1.2094**	**6.0300e-003**	**0.4122**	**3.4700e-003**	**0.4156**	**0.1111**	**3.2300e-003**	**0.1143**		**623.1072**	**623.1072**	**0.0239**		**623.7051**

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	1.6868	14.1788	13.2835	0.0302		0.6233	0.6233		0.5859	0.5859	0.0000	2,815.0347	2,815.0347	0.7919		2,834.8329
Total	**1.6868**	**14.1788**	**13.2835**	**0.0302**		**0.6233**	**0.6233**		**0.5859**	**0.5859**	**0.0000**	**2,815.0347**	**2,815.0347**	**0.7919**		**2,834.8329**

3.4 Building Construction - 2024

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	0.0248	0.8375	0.2523	2.9400e-003	0.0768	9.6000e-004	0.0778	0.0221	9.2000e-004	0.0230		315.4037	315.4037	0.0164		315.8135
Worker	0.1070	0.0659	0.9571	3.0900e-003	0.3353	2.5100e-003	0.3378	0.0889	2.3100e-003	0.0912		307.7035	307.7035	7.5300e-003		307.8916
Total	**0.1318**	**0.9034**	**1.2094**	**6.0300e-003**	**0.4122**	**3.4700e-003**	**0.4156**	**0.1111**	**3.2300e-003**	**0.1143**		**623.1072**	**623.1072**	**0.0239**		**623.7051**

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	1.6246	13.4658	13.2209	0.0302		0.5664	0.5664		0.5335	0.5335		2,815.3836	2,815.3836	0.7920		2,835.1845
Total	**1.6246**	**13.4658**	**13.2209**	**0.0302**		**0.5664**	**0.5664**		**0.5335**	**0.5335**		**2,815.3836**	**2,815.3836**	**0.7920**		**2,835.1845**

3.4 Building Construction - 2025

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	0.0242	0.8304	0.2459	2.9200e-003	0.0768	9.4000e-004	0.0778	0.0221	9.0000e-004	0.0230		313.6658	313.6658	0.0162		314.0699
Worker	0.1016	0.0603	0.8889	2.9700e-003	0.3353	2.4600e-003	0.3378	0.0889	2.2700e-003	0.0912		295.7805	295.7805	6.8600e-003		295.9521
Total	**0.1258**	**0.8906**	**1.1348**	**5.8900e-003**	**0.4122**	**3.4000e-003**	**0.4156**	**0.1111**	**3.1700e-003**	**0.1142**		**609.4463**	**609.4463**	**0.0230**		**610.0220**

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	1.6246	13.4658	13.2209	0.0302		0.5664	0.5664		0.5335	0.5335	0.0000	2,815.3836	2,815.3836	0.7920		2,835.1845
Total	**1.6246**	**13.4658**	**13.2209**	**0.0302**		**0.5664**	**0.5664**		**0.5335**	**0.5335**	**0.0000**	**2,815.3836**	**2,815.3836**	**0.7920**		**2,835.1845**

3.4 Building Construction - 2025

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	0.0242	0.8304	0.2459	2.9200e-003	0.0768	9.4000e-004	0.0778	0.0221	9.0000e-004	0.0230		313.6658	313.6658	0.0162		314.0699
Worker	0.1016	0.0603	0.8889	2.9700e-003	0.3353	2.4600e-003	0.3378	0.0889	2.2700e-003	0.0912		295.7805	295.7805	6.8600e-003		295.9521
Total	**0.1258**	**0.8906**	**1.1348**	**5.8900e-003**	**0.4122**	**3.4000e-003**	**0.4156**	**0.1111**	**3.1700e-003**	**0.1142**		**609.4463**	**609.4463**	**0.0230**		**610.0220**

3.5 Building Construction (Interior) - 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					
Archit. Coating	8.5881					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	**8.8159**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**		**375.2641**	**375.2641**	**0.0205**		**375.7758**

3.5 Building Construction (Interior) - 2025

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	0.0203	0.0121	0.1778	5.9000e-004	0.0671	4.9000e-004	0.0676	0.0178	4.5000e-004	0.0182		59.1561	59.1561	1.3700e-003		59.1904
Total	**0.0203**	**0.0121**	**0.1778**	**5.9000e-004**	**0.0671**	**4.9000e-004**	**0.0676**	**0.0178**	**4.5000e-004**	**0.0182**		**59.1561**	**59.1561**	**1.3700e-003**		**59.1904**

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	8.5881					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	**8.8159**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**	**0.0000**	**375.2641**	**375.2641**	**0.0205**		**375.7758**

3.5 Building Construction (Interior) - 2025

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	0.0203	0.0121	0.1778	5.9000e-004	0.0671	4.9000e-004	0.0676	0.0178	4.5000e-004	0.0182		59.1561	59.1561	1.3700e-003		59.1904
Total	**0.0203**	**0.0121**	**0.1778**	**5.9000e-004**	**0.0671**	**4.9000e-004**	**0.0676**	**0.0178**	**4.5000e-004**	**0.0182**		**59.1561**	**59.1561**	**1.3700e-003**		**59.1904**

3.6 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	0.6899	5.9798	8.0252	0.0168		0.2592	0.2592		0.2397	0.2397		1,616.8111	1,616.8111	0.5114		1,629.5958
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6899**	**5.9798**	**8.0252**	**0.0168**		**0.2592**	**0.2592**		**0.2397**	**0.2397**		**1,616.8111**	**1,616.8111**	**0.5114**		**1,629.5958**

3.6 Paving - 2025

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	0.0161	0.5536	0.1639	1.9500e-003	0.0512	6.3000e-004	0.0519	0.0148	6.0000e-004	0.0154		209.1106	209.1106	0.0108		209.3799
Worker	0.0440	0.0261	0.3852	1.2900e-003	0.1453	1.0700e-003	0.1464	0.0385	9.8000e-004	0.0395		128.1716	128.1716	2.9700e-003		128.2459
Total	**0.0601**	**0.5797**	**0.5491**	**3.2400e-003**	**0.1965**	**1.7000e-003**	**0.1982**	**0.0533**	**1.5800e-003**	**0.0549**		**337.2821**	**337.2821**	**0.0137**		**337.6258**

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	0.6899	5.9798	8.0252	0.0168		0.2592	0.2592		0.2397	0.2397	0.0000	1,616.8111	1,616.8111	0.5114		1,629.5958
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6899**	**5.9798**	**8.0252**	**0.0168**		**0.2592**	**0.2592**		**0.2397**	**0.2397**	**0.0000**	**1,616.8111**	**1,616.8111**	**0.5114**		**1,629.5958**

3.6 Paving - 2025

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	0.0161	0.5536	0.1639	1.9500e-003	0.0512	6.3000e-004	0.0519	0.0148	6.0000e-004	0.0154		209.1106	209.1106	0.0108		209.3799
Worker	0.0440	0.0261	0.3852	1.2900e-003	0.1453	1.0700e-003	0.1464	0.0385	9.8000e-004	0.0395		128.1716	128.1716	2.9700e-003		128.2459
Total	**0.0601**	**0.5797**	**0.5491**	**3.2400e-003**	**0.1965**	**1.7000e-003**	**0.1982**	**0.0533**	**1.5800e-003**	**0.0549**		**337.2821**	**337.2821**	**0.0137**		**337.6258**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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					
Mitigated	1.5234	6.6802	22.4887	0.0929	8.3493	0.0678	8.4171	2.2339	0.0630	2.2970		9,477.0688	9,477.0688	0.4209		9,487.5907
Unmitigated	1.5234	6.6802	22.4887	0.0929	8.3493	0.0678	8.4171	2.2339	0.0630	2.2970		9,477.0688	9,477.0688	0.4209		9,487.5907

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	919.57	311.76	127.70	3,073,327	3,073,327
Total	919.57	311.76	127.70	3,073,327	3,073,327

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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					
NaturalGas Mitigated	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
NaturalGas Unmitigated	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High School	2032.59	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
Total		**0.0219**	**0.1993**	**0.1674**	**1.2000e-003**		**0.0151**	**0.0151**		**0.0151**	**0.0151**		**239.1279**	**239.1279**	**4.5800e-003**	**4.3800e-003**	**240.5490**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High School	2.03259	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
Total		**0.0219**	**0.1993**	**0.1674**	**1.2000e-003**		**0.0151**	**0.0151**		**0.0151**	**0.0151**		**239.1279**	**239.1279**	**4.5800e-003**	**4.3800e-003**	**240.5490**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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					
Mitigated	1.5943	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Unmitigated	1.5943	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Total	**1.5943**	**7.0000e-005**	**7.2600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0156**	**0.0156**	**4.0000e-005**		**0.0166**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Total	**1.5943**	**7.0000e-005**	**7.2600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0156**	**0.0156**	**4.0000e-005**		**0.0166**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Taft Charter High School Comprehensive Modernization Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	71.34	1000sqft	1.64	71,336.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2025
Utility Company	Southern California Edison				
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 -

Land Use - Project details from MND Section 3, Project Description. Unit amount equates to sum of new construction and rennovation

Construction Phase - Building Construction schedule per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Off-road Equipment - Construction equipment per Table 3 of MND Section 3, Project Description

Trips and VMT - Default worker trips in absence of Project-specific details. Vendor and Hauling trips per Table 3 of MND Section 3, Project Description

Demolition -

Grading - Grading based on total area of new development and landscape/sports field improvements

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	77.00
tblConstructionPhase	NumDays	200.00	677.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	4.00	118.00
tblConstructionPhase	NumDays	10.00	104.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	71,340.00	71,336.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	155.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	70.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00

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					
2022	1.8808	16.9997	15.4944	0.0284	0.6707	0.8248	1.4955	0.1194	0.7744	0.8938	0.0000	2,731.6011	2,731.6011	0.7075	0.0000	2,747.7942
2023	1.9034	15.8861	14.5568	0.0360	0.4122	0.6881	1.1003	0.1111	0.6456	0.7567	0.0000	3,420.1490	3,420.1490	0.8166	0.0000	3,440.5632
2024	1.8329	15.0856	14.4291	0.0359	0.4122	0.6269	1.0390	0.1111	0.5892	0.7002	0.0000	3,411.6705	3,411.6705	0.8163	0.0000	3,432.0781
2025	8.8388	14.3592	14.2967	0.0358	0.4122	0.5698	0.9820	0.1111	0.5367	0.6478	0.0000	3,399.1577	3,399.1577	0.8155	0.0000	3,419.5460
Maximum	**8.8388**	**16.9997**	**15.4944**	**0.0360**	**0.6707**	**0.8248**	**1.4955**	**0.1194**	**0.7744**	**0.8938**	**0.0000**	**3,420.1490**	**3,420.1490**	**0.8166**	**0.0000**	**3,440.5632**

2.1 Overall Construction (Maximum Daily Emission)

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					
2022	1.8808	16.9997	15.4944	0.0284	0.6707	0.8248	1.4955	0.1194	0.7744	0.8938	0.0000	2,731.6011	2,731.6011	0.7075	0.0000	2,747.7942
2023	1.9034	15.8861	14.5568	0.0360	0.4122	0.6881	1.1003	0.1111	0.6456	0.7567	0.0000	3,420.1490	3,420.1490	0.8166	0.0000	3,440.5632
2024	1.8329	15.0856	14.4291	0.0359	0.4122	0.6269	1.0390	0.1111	0.5892	0.7002	0.0000	3,411.6705	3,411.6705	0.8163	0.0000	3,432.0781
2025	8.8388	14.3592	14.2967	0.0358	0.4122	0.5698	0.9820	0.1111	0.5367	0.6478	0.0000	3,399.1577	3,399.1577	0.8155	0.0000	3,419.5460
Maximum	**8.8388**	**16.9997**	**15.4944**	**0.0360**	**0.6707**	**0.8248**	**1.4955**	**0.1194**	**0.7744**	**0.8938**	**0.0000**	**3,420.1490**	**3,420.1490**	**0.8166**	**0.0000**	**3,440.5632**

	ROG	NOx	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive 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					
Area	1.5943	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Energy	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
Mobile	1.4771	6.8610	21.1125	0.0885	8.3493	0.0680	8.4173	2.2339	0.0632	2.2971		9,034.6266	9,034.6266	0.4182		9,045.0818
Total	**3.0933**	**7.0604**	**21.2871**	**0.0897**	**8.3493**	**0.0832**	**8.4325**	**2.2339**	**0.0784**	**2.3123**		**9,273.7701**	**9,273.7701**	**0.4228**	**4.3800e-003**	**9,285.6473**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive 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					
Area	1.5943	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Energy	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
Mobile	1.4771	6.8610	21.1125	0.0885	8.3493	0.0680	8.4173	2.2339	0.0632	2.2971		9,034.6266	9,034.6266	0.4182		9,045.0818
Total	**3.0933**	**7.0604**	**21.2871**	**0.0897**	**8.3493**	**0.0832**	**8.4325**	**2.2339**	**0.0784**	**2.3123**		**9,273.7701**	**9,273.7701**	**0.4228**	**4.3800e-003**	**9,285.6473**

	ROG	NOx	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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	6/1/2022	8/15/2022	6	65	
2	Grading	Grading	8/16/2022	12/30/2022	6	118	
3	Building Construction	Building Construction	1/2/2023	2/28/2025	6	677	
4	Building Construction (Interior)	Architectural Coating	3/3/2025	5/30/2025	6	77	
5	Paving	Paving	6/2/2025	9/30/2025	6	104	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 107,004; Non-Residential Outdoor: 35,668; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Dumpers/Tenders	1	7.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	1	7.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rollers	2	7.00	80	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Bore/Drill Rigs	1	7.00	221	0.50
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Dumpers/Tenders	9	8.00	16	0.38
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction (Interior)	Air Compressors	1	8.00	78	0.48
Paving	Dumpers/Tenders	1	7.00	16	0.38
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Rubber Tired Loaders	1	8.00	203	0.36

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	6	13.00	0.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	8.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	30.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Interior)	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					
Fugitive Dust					0.5146	0.0000	0.5146	0.0779	0.0000	0.0779			0.0000			0.0000
Off-Road	1.8175	16.8064	15.0129	0.0266		0.8232	0.8232		0.7730	0.7730		2,546.5337	2,546.5337	0.6404		2,562.5443
Total	**1.8175**	**16.8064**	**15.0129**	**0.0266**	**0.5146**	**0.8232**	**1.3378**	**0.0779**	**0.7730**	**0.8509**		**2,546.5337**	**2,546.5337**	**0.6404**		**2,562.5443**

3.2 Demolition - 2022

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	5.0000e-003	0.1551	0.0405	4.7000e-004	0.0108	4.5000e-004	0.0112	2.9500e-003	4.3000e-004	3.3800e-003		50.5733	50.5733	3.6000e-003		50.6634
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	0.0582	0.0383	0.4409	1.3500e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.4940	134.4940	3.7000e-003		134.5866
Total	**0.0632**	**0.1934**	**0.4815**	**1.8200e-003**	**0.1561**	**1.5900e-003**	**0.1577**	**0.0415**	**1.4800e-003**	**0.0430**		**185.0674**	**185.0674**	**7.3000e-003**		**185.2500**

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					0.5146	0.0000	0.5146	0.0779	0.0000	0.0779			0.0000			0.0000
Off-Road	1.8175	16.8064	15.0129	0.0266		0.8232	0.8232		0.7730	0.7730	0.0000	2,546.5337	2,546.5337	0.6404		2,562.5443
Total	**1.8175**	**16.8064**	**15.0129**	**0.0266**	**0.5146**	**0.8232**	**1.3378**	**0.0779**	**0.7730**	**0.8509**	**0.0000**	**2,546.5337**	**2,546.5337**	**0.6404**		**2,562.5443**

3.2 Demolition - 2022

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	5.0000e-003	0.1551	0.0405	4.7000e-004	0.0108	4.5000e-004	0.0112	2.9500e-003	4.3000e-004	3.3800e-003		50.5733	50.5733	3.6000e-003		50.6634
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	0.0582	0.0383	0.4409	1.3500e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.4940	134.4940	3.7000e-003		134.5866
Total	**0.0632**	**0.1934**	**0.4815**	**1.8200e-003**	**0.1561**	**1.5900e-003**	**0.1577**	**0.0415**	**1.4800e-003**	**0.0430**		**185.0674**	**185.0674**	**7.3000e-003**		**185.2500**

3.3 Grading - 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					
Fugitive Dust					0.0809	0.0000	0.0809	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	1.3971	13.3259	13.0291	0.0233		0.7047	0.7047		0.6504	0.6504		2,228.6970	2,228.6970	0.7017		2,246.2397
Total	**1.3971**	**13.3259**	**13.0291**	**0.0233**	**0.0809**	**0.7047**	**0.7856**	**8.7300e-003**	**0.6504**	**0.6591**		**2,228.6970**	**2,228.6970**	**0.7017**		**2,246.2397**

3.3 Grading - 2022

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	4.8200e-003	0.1495	0.0391	4.5000e-004	0.0104	4.3000e-004	0.0108	2.8400e-003	4.1000e-004	3.2600e-003		48.7518	48.7518	3.4700e-003		48.8386
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	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0407**	**0.1731**	**0.3104**	**1.2800e-003**	**0.0998**	**1.1300e-003**	**0.1009**	**0.0266**	**1.0500e-003**	**0.0276**		**131.5174**	**131.5174**	**5.7500e-003**		**131.6612**

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					0.0809	0.0000	0.0809	8.7300e-003	0.0000	8.7300e-003			0.0000			0.0000
Off-Road	1.3971	13.3259	13.0291	0.0233		0.7047	0.7047		0.6504	0.6504	0.0000	2,228.6969	2,228.6969	0.7017		2,246.2397
Total	**1.3971**	**13.3259**	**13.0291**	**0.0233**	**0.0809**	**0.7047**	**0.7856**	**8.7300e-003**	**0.6504**	**0.6591**	**0.0000**	**2,228.6969**	**2,228.6969**	**0.7017**		**2,246.2397**

3.3 Grading - 2022

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	4.8200e-003	0.1495	0.0391	4.5000e-004	0.0104	4.3000e-004	0.0108	2.8400e-003	4.1000e-004	3.2600e-003		48.7518	48.7518	3.4700e-003		48.8386
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	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0407**	**0.1731**	**0.3104**	**1.2800e-003**	**0.0998**	**1.1300e-003**	**0.1009**	**0.0266**	**1.0500e-003**	**0.0276**		**131.5174**	**131.5174**	**5.7500e-003**		**131.6612**

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	1.7501	14.9693	13.3381	0.0302		0.6846	0.6846		0.6423	0.6423		2,813.0432	2,813.0432	0.7913		2,832.8253
Total	**1.7501**	**14.9693**	**13.3381**	**0.0302**		**0.6846**	**0.6846**		**0.6423**	**0.6423**		**2,813.0432**	**2,813.0432**	**0.7913**		**2,832.8253**

3.4 Building Construction - 2023

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	0.0267	0.8369	0.2834	2.8800e-003	0.0768	1.0200e-003	0.0779	0.0221	9.8000e-004	0.0231		308.0896	308.0896	0.0176		308.5294
Worker	0.1266	0.0799	0.9353	3.0000e-003	0.3353	2.5500e-003	0.3379	0.0889	2.3500e-003	0.0913		299.0162	299.0162	7.7000e-003		299.2086
Total	**0.1533**	**0.9168**	**1.2187**	**5.8800e-003**	**0.4122**	**3.5700e-003**	**0.4157**	**0.1111**	**3.3300e-003**	**0.1144**		**607.1057**	**607.1057**	**0.0253**		**607.7379**

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	1.7501	14.9693	13.3381	0.0302		0.6846	0.6846		0.6423	0.6423	0.0000	2,813.0432	2,813.0432	0.7913		2,832.8253
Total	**1.7501**	**14.9693**	**13.3381**	**0.0302**		**0.6846**	**0.6846**		**0.6423**	**0.6423**	**0.0000**	**2,813.0432**	**2,813.0432**	**0.7913**		**2,832.8253**

3.4 Building Construction - 2023

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	0.0267	0.8369	0.2834	2.8800e-003	0.0768	1.0200e-003	0.0779	0.0221	9.8000e-004	0.0231		308.0896	308.0896	0.0176		308.5294
Worker	0.1266	0.0799	0.9353	3.0000e-003	0.3353	2.5500e-003	0.3379	0.0889	2.3500e-003	0.0913		299.0162	299.0162	7.7000e-003		299.2086
Total	**0.1533**	**0.9168**	**1.2187**	**5.8800e-003**	**0.4122**	**3.5700e-003**	**0.4157**	**0.1111**	**3.3300e-003**	**0.1144**		**607.1057**	**607.1057**	**0.0253**		**607.7379**

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	1.6868	14.1788	13.2835	0.0302		0.6233	0.6233		0.5859	0.5859		2,815.0347	2,815.0347	0.7919		2,834.8329
Total	**1.6868**	**14.1788**	**13.2835**	**0.0302**		**0.6233**	**0.6233**		**0.5859**	**0.5859**		**2,815.0347**	**2,815.0347**	**0.7919**		**2,834.8329**

3.4 Building Construction - 2024

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	0.0261	0.8339	0.2748	2.8600e-003	0.0768	1.0000e-003	0.0778	0.0221	9.6000e-004	0.0231		306.8947	306.8947	0.0173		307.3278
Worker	0.1201	0.0729	0.8707	2.9100e-003	0.3353	2.5100e-003	0.3378	0.0889	2.3100e-003	0.0912		289.7411	289.7411	7.0500e-003		289.9174
Total	**0.1462**	**0.9067**	**1.1455**	**5.7700e-003**	**0.4122**	**3.5100e-003**	**0.4157**	**0.1111**	**3.2700e-003**	**0.1143**		**596.6358**	**596.6358**	**0.0244**		**597.2452**

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	1.6868	14.1788	13.2835	0.0302		0.6233	0.6233		0.5859	0.5859	0.0000	2,815.0347	2,815.0347	0.7919		2,834.8329
Total	**1.6868**	**14.1788**	**13.2835**	**0.0302**		**0.6233**	**0.6233**		**0.5859**	**0.5859**	**0.0000**	**2,815.0347**	**2,815.0347**	**0.7919**		**2,834.8329**

3.4 Building Construction - 2024

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	0.0261	0.8339	0.2748	2.8600e-003	0.0768	1.0000e-003	0.0778	0.0221	9.6000e-004	0.0231		306.8947	306.8947	0.0173		307.3278
Worker	0.1201	0.0729	0.8707	2.9100e-003	0.3353	2.5100e-003	0.3378	0.0889	2.3100e-003	0.0912		289.7411	289.7411	7.0500e-003		289.9174
Total	**0.1462**	**0.9067**	**1.1455**	**5.7700e-003**	**0.4122**	**3.5100e-003**	**0.4157**	**0.1111**	**3.2700e-003**	**0.1143**		**596.6358**	**596.6358**	**0.0244**		**597.2452**

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	1.6246	13.4658	13.2209	0.0302		0.5664	0.5664		0.5335	0.5335		2,815.3836	2,815.3836	0.7920		2,835.1845
Total	**1.6246**	**13.4658**	**13.2209**	**0.0302**		**0.5664**	**0.5664**		**0.5335**	**0.5335**		**2,815.3836**	**2,815.3836**	**0.7920**		**2,835.1845**

3.4 Building Construction - 2025

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	0.0254	0.8268	0.2678	2.8500e-003	0.0768	9.8000e-004	0.0778	0.0221	9.4000e-004	0.0231		305.2491	305.2491	0.0171		305.6757
Worker	0.1144	0.0667	0.8079	2.7900e-003	0.3353	2.4600e-003	0.3378	0.0889	2.2700e-003	0.0912		278.5251	278.5251	6.4300e-003		278.6857
Total	**0.1398**	**0.8935**	**1.0757**	**5.6400e-003**	**0.4122**	**3.4400e-003**	**0.4156**	**0.1111**	**3.2100e-003**	**0.1143**		**583.7742**	**583.7742**	**0.0235**		**584.3614**

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	1.6246	13.4658	13.2209	0.0302		0.5664	0.5664		0.5335	0.5335	0.0000	2,815.3836	2,815.3836	0.7920		2,835.1845
Total	**1.6246**	**13.4658**	**13.2209**	**0.0302**		**0.5664**	**0.5664**		**0.5335**	**0.5335**	**0.0000**	**2,815.3836**	**2,815.3836**	**0.7920**		**2,835.1845**

3.4 Building Construction - 2025

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	0.0254	0.8268	0.2678	2.8500e-003	0.0768	9.8000e-004	0.0778	0.0221	9.4000e-004	0.0231		305.2491	305.2491	0.0171		305.6757
Worker	0.1144	0.0667	0.8079	2.7900e-003	0.3353	2.4600e-003	0.3378	0.0889	2.2700e-003	0.0912		278.5251	278.5251	6.4300e-003		278.6857
Total	**0.1398**	**0.8935**	**1.0757**	**5.6400e-003**	**0.4122**	**3.4400e-003**	**0.4156**	**0.1111**	**3.2100e-003**	**0.1143**		**583.7742**	**583.7742**	**0.0235**		**584.3614**

3.5 Building Construction (Interior) - 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					
Archit. Coating	8.5881					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	**8.8159**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**		**375.2641**	**375.2641**	**0.0205**		**375.7758**

3.5 Building Construction (Interior) - 2025

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	0.0229	0.0133	0.1616	5.6000e-004	0.0671	4.9000e-004	0.0676	0.0178	4.5000e-004	0.0182		55.7050	55.7050	1.2900e-003		55.7371
Total	**0.0229**	**0.0133**	**0.1616**	**5.6000e-004**	**0.0671**	**4.9000e-004**	**0.0676**	**0.0178**	**4.5000e-004**	**0.0182**		**55.7050**	**55.7050**	**1.2900e-003**		**55.7371**

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	8.5881					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	**8.8159**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**	**0.0000**	**375.2641**	**375.2641**	**0.0205**		**375.7758**

3.5 Building Construction (Interior) - 2025

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	0.0229	0.0133	0.1616	5.6000e-004	0.0671	4.9000e-004	0.0676	0.0178	4.5000e-004	0.0182		55.7050	55.7050	1.2900e-003		55.7371
Total	**0.0229**	**0.0133**	**0.1616**	**5.6000e-004**	**0.0671**	**4.9000e-004**	**0.0676**	**0.0178**	**4.5000e-004**	**0.0182**		**55.7050**	**55.7050**	**1.2900e-003**		**55.7371**

3.6 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	0.6899	5.9798	8.0252	0.0168		0.2592	0.2592		0.2397	0.2397		1,616.8111	1,616.8111	0.5114		1,629.5958
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6899**	**5.9798**	**8.0252**	**0.0168**		**0.2592**	**0.2592**		**0.2397**	**0.2397**		**1,616.8111**	**1,616.8111**	**0.5114**		**1,629.5958**

3.6 Paving - 2025

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	0.0169	0.5512	0.1785	1.9000e-003	0.0512	6.6000e-004	0.0519	0.0148	6.3000e-004	0.0154		203.4994	203.4994	0.0114		203.7838
Worker	0.0496	0.0289	0.3501	1.2100e-003	0.1453	1.0700e-003	0.1464	0.0385	9.8000e-004	0.0395		120.6942	120.6942	2.7800e-003		120.7638
Total	**0.0665**	**0.5801**	**0.5286**	**3.1100e-003**	**0.1965**	**1.7300e-003**	**0.1983**	**0.0533**	**1.6100e-003**	**0.0549**		**324.1936**	**324.1936**	**0.0142**		**324.5476**

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	0.6899	5.9798	8.0252	0.0168		0.2592	0.2592		0.2397	0.2397	0.0000	1,616.8111	1,616.8111	0.5114		1,629.5958
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6899**	**5.9798**	**8.0252**	**0.0168**		**0.2592**	**0.2592**		**0.2397**	**0.2397**	**0.0000**	**1,616.8111**	**1,616.8111**	**0.5114**		**1,629.5958**

3.6 Paving - 2025

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	0.0169	0.5512	0.1785	1.9000e-003	0.0512	6.6000e-004	0.0519	0.0148	6.3000e-004	0.0154		203.4994	203.4994	0.0114		203.7838
Worker	0.0496	0.0289	0.3501	1.2100e-003	0.1453	1.0700e-003	0.1464	0.0385	9.8000e-004	0.0395		120.6942	120.6942	2.7800e-003		120.7638
Total	**0.0665**	**0.5801**	**0.5286**	**3.1100e-003**	**0.1965**	**1.7300e-003**	**0.1983**	**0.0533**	**1.6100e-003**	**0.0549**		**324.1936**	**324.1936**	**0.0142**		**324.5476**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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					
Mitigated	1.4771	6.8610	21.1125	0.0885	8.3493	0.0680	8.4173	2.2339	0.0632	2.2971		9,034.6266	9,034.6266	0.4182		9,045.0818
Unmitigated	1.4771	6.8610	21.1125	0.0885	8.3493	0.0680	8.4173	2.2339	0.0632	2.2971		9,034.6266	9,034.6266	0.4182		9,045.0818

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	919.57	311.76	127.70	3,073,327	3,073,327
Total	919.57	311.76	127.70	3,073,327	3,073,327

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.544880	0.044491	0.207704	0.117752	0.014693	0.006272	0.020732	0.032141	0.002572	0.001984	0.005239	0.000700	0.000841

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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					
NaturalGas Mitigated	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
NaturalGas Unmitigated	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High School	2032.59	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
Total		**0.0219**	**0.1993**	**0.1674**	**1.2000e-003**		**0.0151**	**0.0151**		**0.0151**	**0.0151**		**239.1279**	**239.1279**	**4.5800e-003**	**4.3800e-003**	**240.5490**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High School	2.03259	0.0219	0.1993	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151		239.1279	239.1279	4.5800e-003	4.3800e-003	240.5490
Total		**0.0219**	**0.1993**	**0.1674**	**1.2000e-003**		**0.0151**	**0.0151**		**0.0151**	**0.0151**		**239.1279**	**239.1279**	**4.5800e-003**	**4.3800e-003**	**240.5490**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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					
Mitigated	1.5943	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Unmitigated	1.5943	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Total	**1.5943**	**7.0000e-005**	**7.2600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0156**	**0.0156**	**4.0000e-005**		**0.0166**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7000e-004	7.0000e-005	7.2600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0156	0.0156	4.0000e-005		0.0166
Total	**1.5943**	**7.0000e-005**	**7.2600e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0156**	**0.0156**	**4.0000e-005**		**0.0166**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B

Arborist Report

TREE PHOTOGRAPHS

At the time of the 60% submittal the tree inventory is complete, the narrative from the arborist is forthcoming.

Tree 1

Tree 2

Tree 3

Tree 4

Tree Photographs

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NAC ARCHITECTURE

Tree 10

Tree 11

TAFT HIGH SCHOOL
Tree 12

PARKING
ONLY
MINIMUM
FINE $250
Tree 13

Tree Photographs

Tree 18

Tree 19

Tree 20

Tree 21

Tree Photographs

Tree 26

Tree 27

Tree 28 & 29

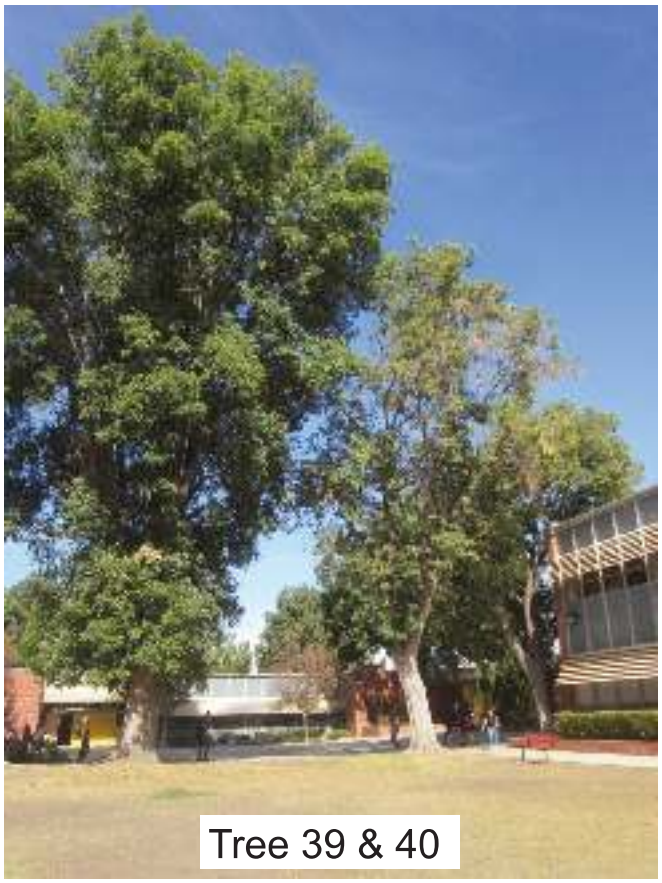
Tree 30

Tree Photographs

Tree 35

Tree 36

Tree 37 & 38


Tree 39 & 40

Tree Photographs

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NAC ARCHITECTURE

Tree 45

Tree 46

Tree 47

Tree 48

Tree Photographs

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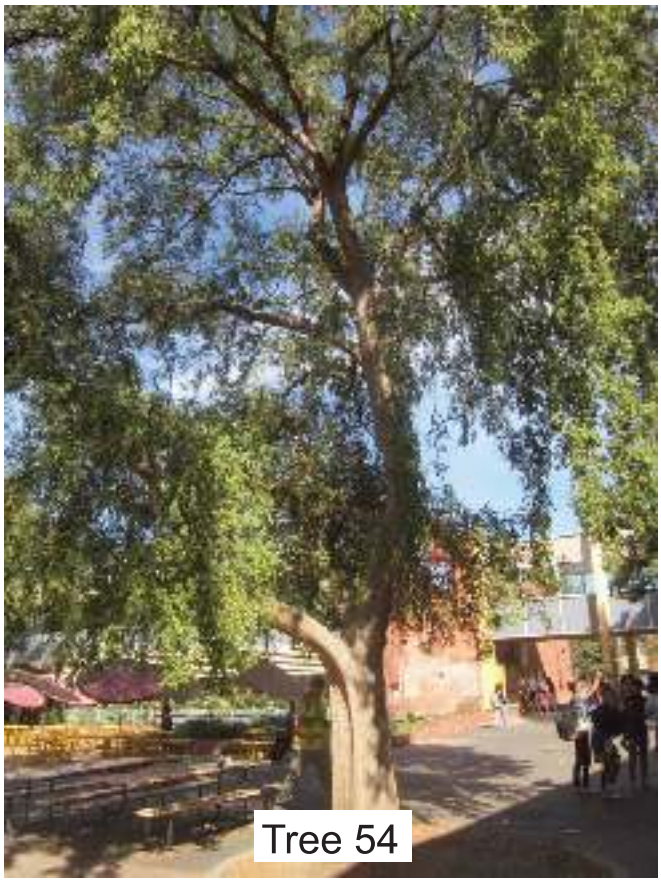
NAC ARCHITECTURE

Tree 53


Tree 54

Tree 55

Tree 56

Tree Photographs

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NAC ARCHITECTURE

Tree 64

Tree 65

Tree 66

Tree 67

Tree Photographs

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NAC ARCHITECTURE

Tree 72

Tree 73

Tree 74

Tree 75 & 76

Tree Photographs

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NAC ARCHITECTURE

Tree 82

Tree 83

Tree 84

Tree 85 & 86

Tree Photographs

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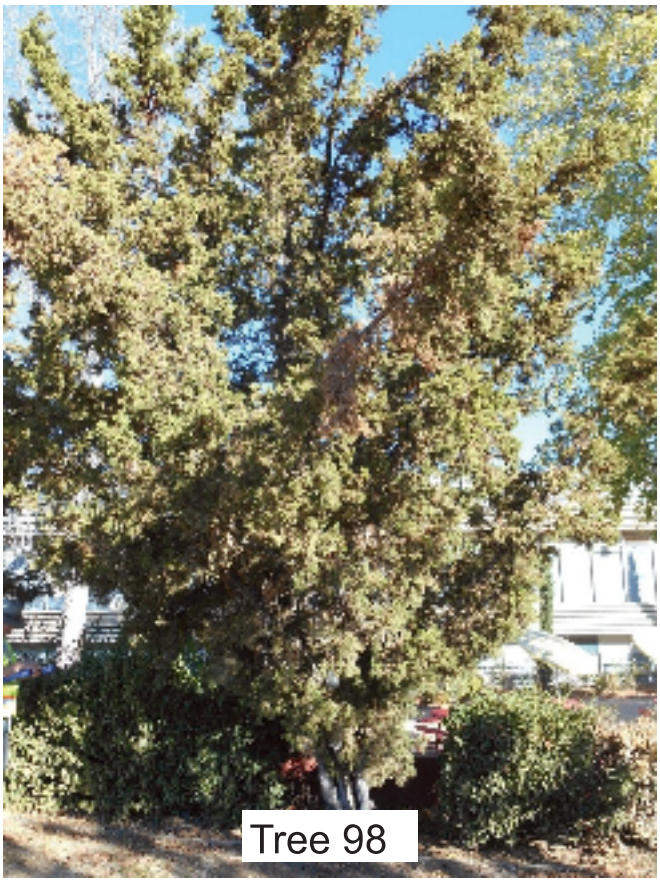
NAC ARCHITECTURE

Tree 93

Tree 94

Tree 95

Tree 96



Tree Photographs

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NAC ARCHITECTURE

Tree 101

Tree 102

Tree 103

Tree 104

Tree 105

Tree 106

Tree 107

Tree 108

Tree 109

Tree 110

Tree 111

Tree 112

Tree Photographs

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NAC ARCHITECTURE

Tree 117

Tree 118

Tree 119

Tree 120

Tree 121

Tree 122

Tree 123

Tree 124

Tree 125

Tree 126

Tree 127

Tree 128

Tree Photographs

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NAC ARCHITECTURE

Tree 133

Tree 134 & 135

Tree 136 & 137

Tree 138

Tree Photographs

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NAC ARCHITECTURE

Tree 143

Tree 144

Tree 145

Tree 146

Tree Photographs

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NAC ARCHITECTURE

Tree 151

Tree 152

Tree 153

Tree 154

Tree Photographs

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NAC ARCHITECTURE

Tree 159

Tree 160

Tree 161

Tree 162

Tree Photographs

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NAC ARCHITECTURE

Tree 169

Tree 170

Tree 171

Tree 172

Tree Photographs

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NAC ARCHITECTURE

Tree 178

Tree 179

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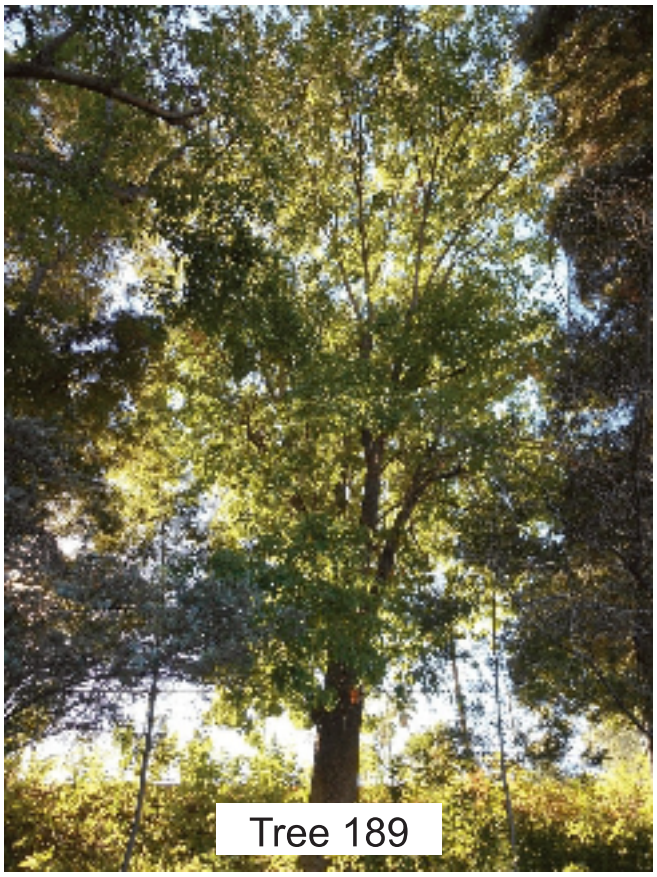
Tree 188


Tree 189

Tree 190

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Tree 196

Tree 197

Tree Photographs

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NAC ARCHITECTURE

Tree 202

Tree 203

Tree 204

Tree 205

Tree 206

Tree 207

Tree 208

Tree 209

Tree 210

Tree 211

Tree 212

Tree 213

Tree Photographs

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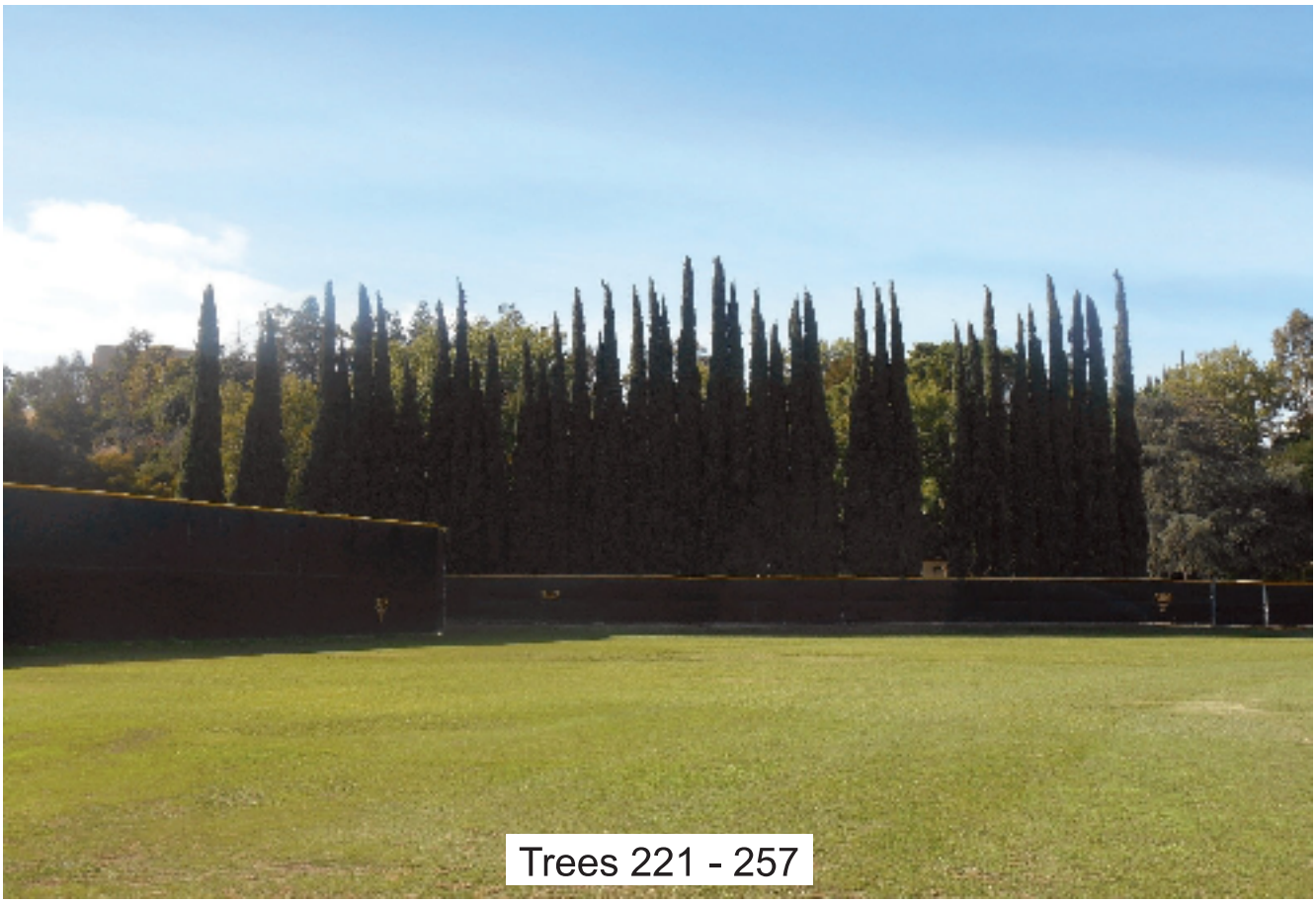
NAC ARCHITECTURE

Tree 218

Tree 219

Tree 220


Trees 221 - 257

Trees 258 - 270

Tree 271

Tree 272 - 274

Tree 275

Tree 276 & 277

Tree 278

Tree 279

Tree 280

Tree 281

Tree 282

Tree 283

Tree 284

Tree 285

Tree Photographs

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NAC ARCHITECTURE

Tree 290

Tree 291

Tree 292

Tree 293

Tree Photographs

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NAC ARCHITECTURE

Tree 298

Tree 299

Tree 300

Tree 301

Tree Photographs

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NAC ARCHITECTURE

Tree 307

Tree 308

Tree 309

Tree 310

Tree Photographs

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NAC ARCHITECTURE

Tree 316

Tree 317

Tree 318

Tree 319

Tree 320

Tree 321

Tree 322

Tree 323

Tree 324

Tree 325

Tree 326

Tree 327 & 328

Tree Photographs

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NAC ARCHITECTURE

Tree 333

Tree 334

Tree 335

Tree 336

Tree 337

Tree 338

Tree 339

Tree 340

Tree 341 - 343

Tree 344

Tree 345

Tree 346

Tree Photographs

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NAC ARCHITECTURE

Tree 351

Tree 352

Tree 353 & 354

Tree 355

Tree 356 & 357

Tree 358

Tree 359

Tree 360 - 362

Tree 363

Tree 364 & 365

Tree 366 - 368

Tree 369

Tree 370

Tree 371

Tree 372

Tree 373

Tree 374

Tree 375 & 376

Tree 377

Tree 378 & 379

Tree Photographs

Taft Charter High School | 5461 Winnetka Ave | Woodland Hills, CA 91364 | LAUSD

NAC ARCHITECTURE

Tree 389 & 390

Tree 391 & 392

Tree 393 - 395

Tree 396 & 397

Tree Photographs

Taft Charter High School | 5461 Winnetka Ave | Woodland Hills, CA 91364 | LAUSD

NAC ARCHITECTURE

Tree 402

Tree 403 - 405

Tree 406

Tree 407

Tree Photographs

Taft Charter High School | 5461 Winnetka Ave | Woodland Hills, CA 91364 | LAUSD

NAC ARCHITECTURE

Tree 413 - 415

Tree 416

Tree 417

Appendix C

Historic Resource Evaluation Report

September 2018 | Historical Resources Evaluation Report

TAFT HIGH SCHOOL

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

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Appendix A Resource Records

1 Executive Summary

The following Historical Resources Evaluation Report (HRER) is for the William H. Taft High School campus (Taft High School also referred to as William Howard Taft Charter High School), located at 5461 Winnetka Avenue, Canoga Park. The campus is located in western San Fernando Valley in the Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan Area of Los Angeles. Initially developed in 1960, the campus spans two discontinuous parcels, occupying 32.4 acres and contains permanent buildings and structures and portable buildings.

This evaluation was prepared to inform future planning efforts and to facilitate compliance with LAUSD's cultural resource policies and the California Environmental Quality Act (CEQA), which requires lead agencies to consider the impacts of proposed projects on historical resources. All work completed as part of the current effort was conducted in accordance with the requirements of CEQA and applicable local regulations.

This HRER includes an overview of character-defining features for the campus and its contributing buildings. The list of character-defining features provided in this evaluation is a preliminary (rather than comprehensive) first step in the identification of the most salient extant character-defining features of the campus overall and of its individual contributors.

Taft High School meets the registration requirements described in the *LAUSD Historic Context Statement, 1869-1970* and appears eligible for the National Register of Historic Places, California Register of Historical Resources, and local designation as a historic district under Criteria C/3/3 as an outstanding example of LAUSD postwar principles of design and campus planning, through its Mid-Century Modern architectural design and its unified, cluster-plan site plan. The period of significance for this association is 1960, corresponding with its construction.

The Taft High School Historic District includes 8 buildings and associated landscape spaces that convey the campus' significant cluster-plan site plan. The contributing buildings include:

- Administrative Building
- Classroom Building A
- Classroom Building B
- Classroom Building C
- Classroom Building D
- Multi-Purpose Building
- Lunch Pavilion
- Student Store Building

Complete results, including a map and property list, are included in the report sections.

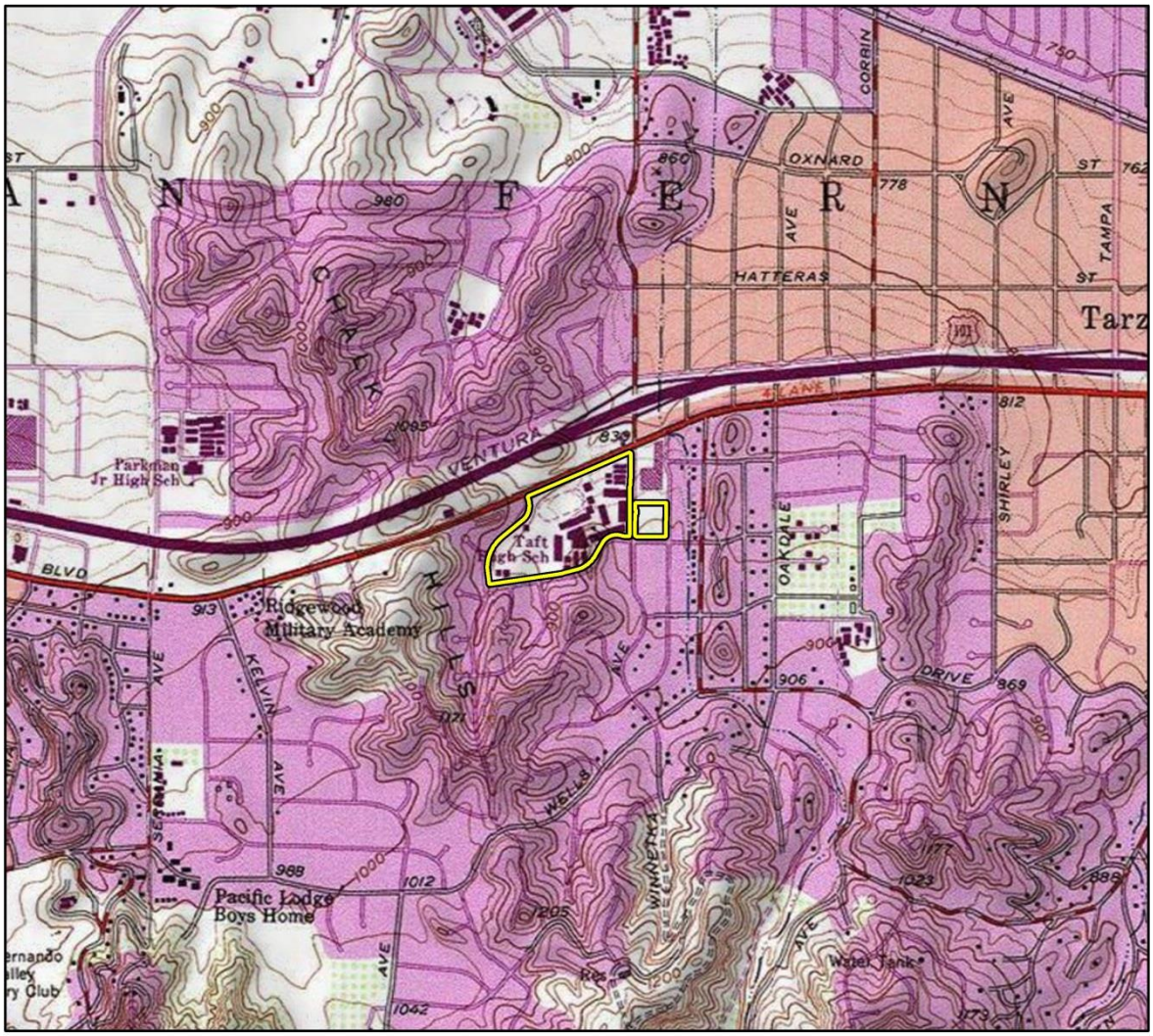
As a property that is eligible for federal, state, and local designation, the Taft High School Historic District qualifies as a historical resource for the purposes of CEQA. This HRER details the distinctive physical features that convey the significance of these historical resources.

The following evaluation was prepared by LAUSD's Historic Preservation Specialist Christian Taylor, with contributions from Rincon Consultants, Inc. Rincon staff included Architectural History Program Manager Shannon Carmack, Senior Architectural Historian Steven Treffers, and Senior Architectural Historian Debi Howell-Ardila. Additional assistance was provided by Rincon Architectural Historians Susan Zamudio-Gurrola and Rachel Perzel. All of these individuals meet and exceed the Secretary of the Interior's Professional Qualifications Standards for Architectural History and History.

2 Introduction

Taft High School is located in the southwestern portion of the San Fernando Valley, immediately south of U.S. Route 101 and east of State Route 27 (Figure 1). The school boundary includes two discontiguous parcels on opposite sides of Winnetka Avenue totaling 32.4 acres (Figure 2). The eastern parcel is square and houses a surface parking lot and two portable buildings for the Thoreau Continuation High School. The western parcel is irregularly shaped and houses Taft High School. The surrounding area includes commercial uses along Ventura Boulevard and residential properties to the south.

Figure 1 Vicinity Map



Imagery provided by National Geographic Society, ESRI and its licensors © 2017. Canoga Park Quadrangle. T01N R16W S16,17. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

Taft High School

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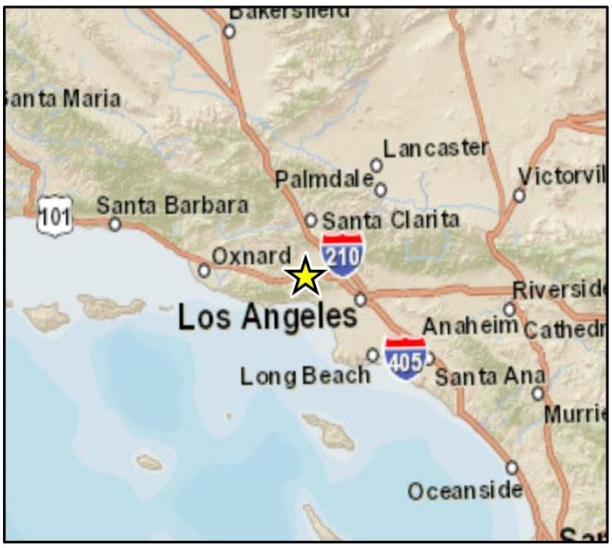


Figure 2 Location Map

Imagery provided by Google and its licensors © 2017.

CRFig 2 Project Site Map

2.1 Regulatory Framework

CEQA requires lead agencies to consider the impacts of proposed projects on historical resources. Under CEQA, historical resources are defined as a property that is listed in, or is eligible for listing in, the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), or a local register. Eligible resources may include buildings, sites, structures, objects, cultural landscapes, and historic districts. Properties that are listed in the NRHP or found eligible for the NRHP through consensus with the State Office of Historic Preservation are automatically listed in the CRHR. Federal, state, and local designation criteria are presented below.

National Register of Historic Places

The NRHP was established by the National Historic Preservation Act (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 cultural resources and to indicate what properties should be considered for protection from destruction or impairment."[1] The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. Districts, sites, buildings, structures, and objects of potential significance must also possess integrity of location, design, setting, materials, workmanship, feeling, and association. A property is eligible for the NRHP if it is significant under one or more of the following criteria:

- **Criterion A.** It is associated with events that have made a significant contribution to the broad patterns of our history.
- **Criterion B.** It is associated with the lives of persons who are significant in our past.
- **Criterion C.** It embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction.
- **Criterion D.** It has yielded, or may be likely to yield, information important in prehistory or history.

In addition to meeting at least one of the above designation criteria, resources must also retain integrity, or enough of their historic character or appearance, to be "recognizable as historical resources and to convey the reasons for their significance."[2] The National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity. To retain integrity, a property must possess several, if not all, of these seven qualities, which are defined in the following manner:

1. **Location.** The place where the historic property was constructed or the place where the historic event occurred
2. **Design.** The combination of elements that create the form, plan, space, structure, and style of a property
3. **Setting.** The physical environment of a historic property

[1] Code of Federal Regulations 36, Code of Federal Regulations 60.2.
[2] California Office of Historic Preservation, "California Register and National Register: A Comparison (for Purposes of Determining Eligibility for the California Register)," Technical Assistance Series No. 6. (Sacramento, CA, 14 March 2006).

4. **Materials.** Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property
5. **Workmanship.** The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory
6. **Feeling.** A property's expression of the aesthetic or historic sense of a particular period of time
7. **Association.** The direct link between an important historic event or person and a historic property[3]

California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change."[4] Certain properties, including those listed in or formally determined eligible for listing in the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included in the CRHR. Other properties recognized under the California Points of Historical Interest program, identified as significant in historical resources surveys, or designated by local landmarks programs may be nominated for inclusion in the CRHR. According to PRC Section 5024.1(c), a resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:

- **Criterion 1.** It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- **Criterion 2.** It is associated with the lives of persons important in our past.
- **Criterion 3.** It embodies the distinctive characteristics of a type, period, region, or method of installation, or represents the work of an important creative individual, or possesses high artistic values.
- **Criterion 4.** It has yielded or may be likely to yield information important in prehistory or history.

It is possible that a resource that does not possess sufficient integrity for NRHP listing may still be eligible for the CRHR. Further, while NRHP eligibility typically requires a property to be at least 50 years of age, there is no age requirement for listing in the CRHR. Rather, regulations specify that enough time must have passed for a property to be evaluated within its historic context.

Los Angeles Historic-Cultural Monuments

Local landmarks in the City of Los Angeles are known as Historic-Cultural Monuments and are under the aegis of the Los Angeles Planning Department, Office of Historic Resources. A Historic Cultural Monument is defined in the Cultural Heritage Ordinance as follows:

---

3 U.S. Department of the Interior, National Park Service. "How to Apply the National Register Criteria for Evaluation, "*National Register Bulletin* No. 15 (Washington D.C., 2002).

[4] Public Resources Code, Sections 21083.2 and 21084.1

Historic-Cultural Monument (Monument) 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 of Los Angeles, 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 a notable work of a master builder, designer, or architect whose individual genius influenced his or her age.[5]

LAUSD Historic Context Statement, 1870 to 1969

This evaluation utilized the methodology and framework of the 2014 *LAUSD Historic Context Statement*. Adopted by the LAUSD Board of Education, the *LAUSD Historic Context Statement* offers a consistent, standard approach for evaluation schools and campuses throughout the District. The document utilizes the NRHP Multiple Property Documentation format (MPD), which provides a comparative, context-driven framework for evaluating related properties. As discussed in that document, "the MPD approach defines themes of significance, eligibility standards, and related property types. Properties sharing a theme of significance are then assessed consistently, in comparison with resources that share similar physical characteristics and historical associations."[6]

2.2 Methods

This historical resources evaluation was conducted and completed in accordance with recognized professional standards, following the Secretary of the Interior's Standards for Preservation Planning, Identification, Evaluation and Registration; California Office of Historic Preservation; and National Park Service professional standards and guidelines. Applicable national, state, and local level criteria were considered, as were the context-driven methods and framework used in *LAUSD Historic Context Statement, 1869-1970* and other applicable historic context statements, including SurveyLA, the citywide historic resources survey conducted by the Los Angeles Office of Historic Resources.[7]

Efforts were made to identify previous historical resource evaluations of Taft High School and other related LAUSD schools. This included a records search of the California Historical Resources Information System, which was conducted at the South Central Coastal Information Center at California State University, Fullerton in June 2017. The California Historical Resources Information System search reviewed the combined listings of the NRHP, CRHR, California State Historical Landmarks, California Points of Historical Interest, and California Historic Resources Inventory. In addition, the findings of the following surveys were reviewed:

- Post-1994 Northridge Earthquake Historical Resources Surveys: These surveys were conducted for the Federal Emergency Management Agency in support of compliance with Section 106 of the National Preservation Act and recorded 71 LAUSD campuses.

[5] Los Angeles Municipal Code, Section 22.171.7, added by Ordinance No. 178,402, Effective 4-2-07

[6] Sapphos Environmental, Inc. *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (Los Angeles Unified School District Office of Environmental Health and Safety, March 2014).

[7] Sapphos Environmental, Inc. As part of SurveyLA, the Los Angeles Department of City Planning Office of Historic Resources has been developing a citywide historic context statement, which provides a framework for identifying and evaluating the city's historic resources; see Los Angeles Department of City Planning Office of Historic Resources, "SurveyLA, Historic Context," https://preservation.lacity.org/historic-context (accessed 2 October 2017).

- Phase 1 and 2 Getty Surveys: These surveys were conducted in two multi-year phases between 2001 and 2004 and expanded on the post-Northridge Earthquake surveys, covering approximately 410 LAUSD campuses.[8]
- 2014 LAUSD Historic Resources Survey: Completed in 2014, this historic resources survey included 55 LAUSD campuses, which at the time of survey, were over 45 years of age. Of these, 14 were found eligible for NRHP and/or CRHR listing.[9]
- SurveyLA: A multi-year, citywide historical resources survey that is currently being finalized by the Los Angeles Office of Historic Resources.

Property-specific research was also conducted to document the construction and alteration history of Taft High School and to explore potential significant associations. A package of historic aerial and topographic maps and Sanborn Fire Insurance Maps for the property was acquired from Environmental Data Resources. Other sources reviewed include the combined collections of ProQuest historical newspapers, historic *Los Angeles Times*, Los Angeles Public Library (including the California Index), University of Southern California Libraries and Special Collections, as well as the online photographic collection of the Huntington Library and yearbooks at Classmates.com. Rincon staff also reviewed Vault Drawings on file with LAUSD, which include architectural plans and drawings detailing the construction and alteration histories of the Taft High School campus and its buildings.

Steven Treffers and Susan Zamudio-Gurrola conducted an intensive-level survey of Taft High School on July 17, 2017. All buildings and structures on the campus were photographed and documented in field notes describing character-defining features, materials, and alterations. The survey included both the exterior and interior of campus buildings, in order to identify character-defining features. In accordance with best practices, adopted LAUSD cultural resource policies, and guidance from the National Park Service, character-defining features 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."[10] Per NPS Preservation Brief 17, interior features can include spaces, features, and finishes that lend a historic resource its visual character and therefore contribute to its historic significance. Such features can include "stairways and balustrades, arched openings, interior shutters, cornices, ceiling medallions, light fixtures, balconies, doors, windows, hardware, wainscoting, paneling, trim, waiting room benches," among many other features.[11] In keeping with National Park Service Preservation Brief 17, "It is important that the visual aspects of a building's interior character be recognized before planning any changes or alterations."[12]

This HRER concludes with an overview of the character-defining features of the Taft High School campus and its contributing buildings. The list of character-defining features provided in this evaluation is a preliminary (rather than comprehensive) first step in the identification of the most salient character-defining features of the historic district and its contributing elements. The scope of work for the current evaluation does not include a room-by-room analysis of character-defining

[8] Leslie Heumann, Science Applications International Corporation, "Historic Resources Survey of the Los Angeles Unified School District," (Pasadena, CA, 2002-2004).
[9] Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Resources Survey Report* (Los Angeles Unified School District Office of Environmental Health and Safety, June 2014).
[10] Nelson, Lee H., FAIA. US Department of the Interior. Preservation Brief 17: Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character." National Park Service, Washington, DC, US Government Printing Office
[11] Nelson, Lee H., FAIA. US Department of the Interior. Preservation Brief 17: Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character." National Park Service, Washington, DC, US Government Printing Office
[12] Nelson, Lee H., FAIA. US Department of the Interior. Preservation Brief 17: Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character." National Park Service, Washington, DC, US Government Printing Office

features, nor does it examine potential project impacts. Once a proposed project has been designed, should a more detailed analysis of character-defining features be needed in accordance with LAUSD cultural resource policies, it is recommended that LAUSD request additional input and guidance from a historic preservation professional.

2.3 Previous Historical Resource Surveys

In 2013, Taft High School was evaluated as part of SurveyLA, the citywide historic resources survey undertaken by the City of Los Angeles Office of Historic Resources. Taft High School falls within the Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan Area.[13] As part of SurveyLA, the campus was recommended eligible at the federal, state, and local levels as a historic district under Criteria A/1/1 and C/3/3 as an excellent example of a post-World War II high school campus, reflecting LAUSD school planning and design concepts; SurveyLA also noted that Taft High School reflects the rapid, widespread postwar expansion of San Fernando Valley.

[13] Historic Resources Group, *Historic Resources Survey Report: Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan Area* (City of Los Angeles Department of City Planning, Office of Historic Resources, August 2013).

3 Campus Site Description and History

3.1 Overview Description of Campus

Located between a major commercial corridor and a residential neighborhood, Taft High School occupies a 32.4-acre, irregularly shaped parcel, bounded by Ventura Boulevard to the north, Winnetka Avenue to the east, Santa Rita Street to the south, and Del Moreno Drive to the west. Originally developed in 1960, the campus displays Mid-Century Modern architectural style. The campus contains permanent and portable buildings and structures constructed between 1960 and 2001 (Figure 3).

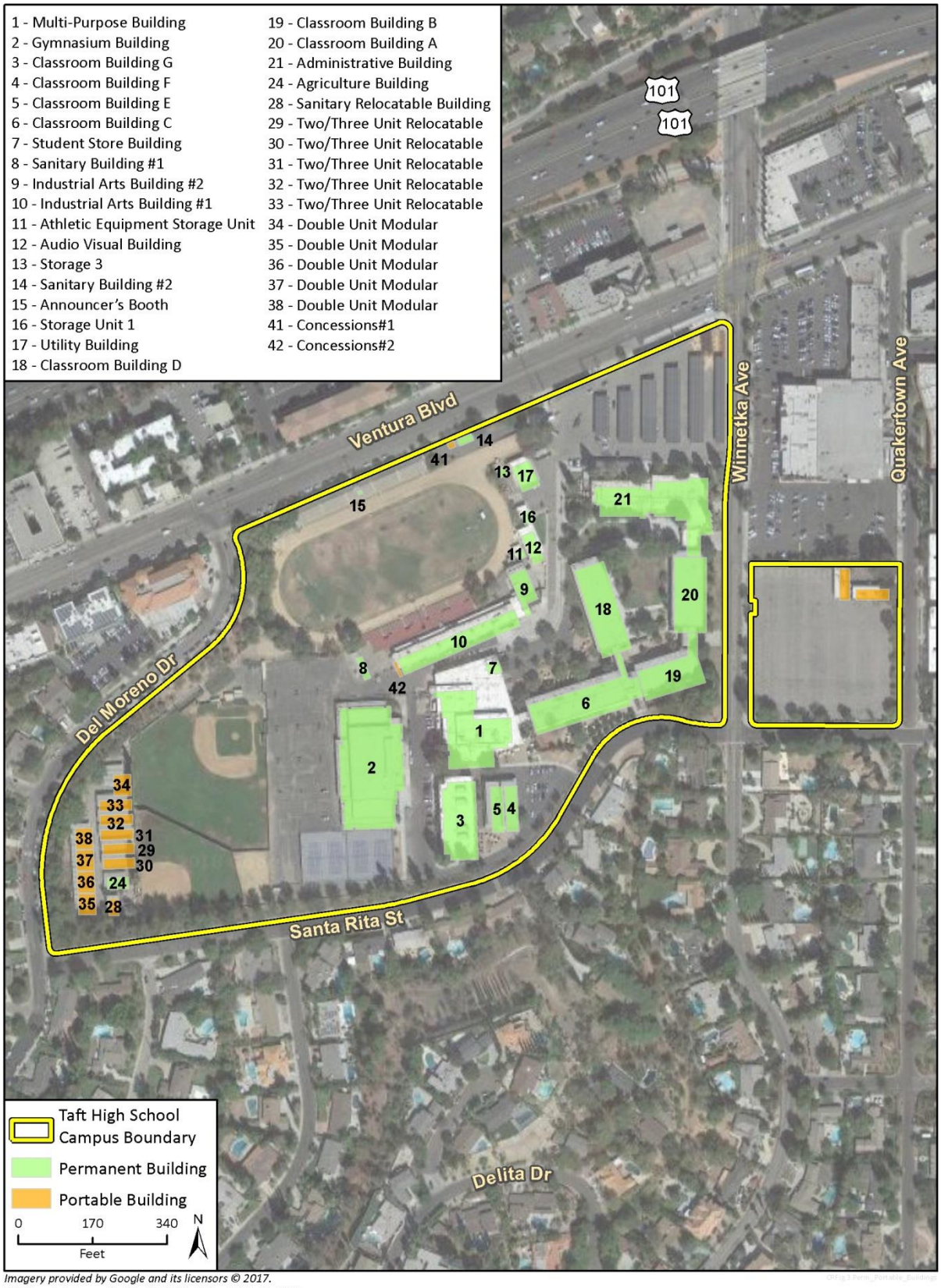
The campus exhibits a modified cluster plan, with the original Administrative, Classroom, and Multi-Purpose Buildings situated around landscaped courtyards in the eastern portion of the campus. Additional buildings, some original and others later additions, are situated along the perimeter of the athletic fields at the western and northern areas of the campus. The original, core campus buildings share common design elements that are representative of their Mid-Century Modern architecture, including rectangular plans, flat roofs, strong horizontal elements, reinforced concrete and masonry construction, curtain walls, “spider leg” support posts, and fascia trimmed with porcelain enamel-coated panels. Covered outdoor walkways link many of the buildings to one another, while the Administrative and four original classroom buildings are connected by enclosed breezeways that harmonize with the buildings’ architectural design.

Outside the campus core, near the southern edge of the property, three additional classroom buildings were constructed between 1964 and 1967. These two-story, wood-framed buildings are clad with rough stucco and feature elements such as covered entry porches, overhanging eaves, more moderate use of fenestration, aluminum casement and sliding windows, wood-framed double-hung windows, vertical bris soleil, and exterior steel staircases. A grouping of small buildings at the southwestern edge of the property, mostly impermanent/portable, provides additional classrooms and restrooms.

The campus grounds include several well-defined courtyard spaces between the original administration and classroom buildings which feature grass lawns, mature trees and shrubs, paved walkways, original brick planters, sitting areas, new concrete planters, and contemporary tables and benches. Additionally, brick walls and fence pillars on the campus help unify the outdoor hardscaping with the buildings’ architectural design. Within one of the courtyards is an outdoor stage consisting of a raised concrete platform, flanked by brick planters. Patterned concrete block walls define the backdrop and wings of the stage.

A football field and running track flanked by wooden bleachers are located along the northern edge of the campus, adjacent to Ventura Boulevard. Providing direct access to the football field, a paved parking lot with solar energy shade canopies is located at the campus’s northeast corner. Baseball fields, and basketball, volleyball and tennis courts are situated near the center of the campus, west of the gymnasium. The majority of the campus perimeter is secured with a chain link fence.

Figure 3 Campus Map

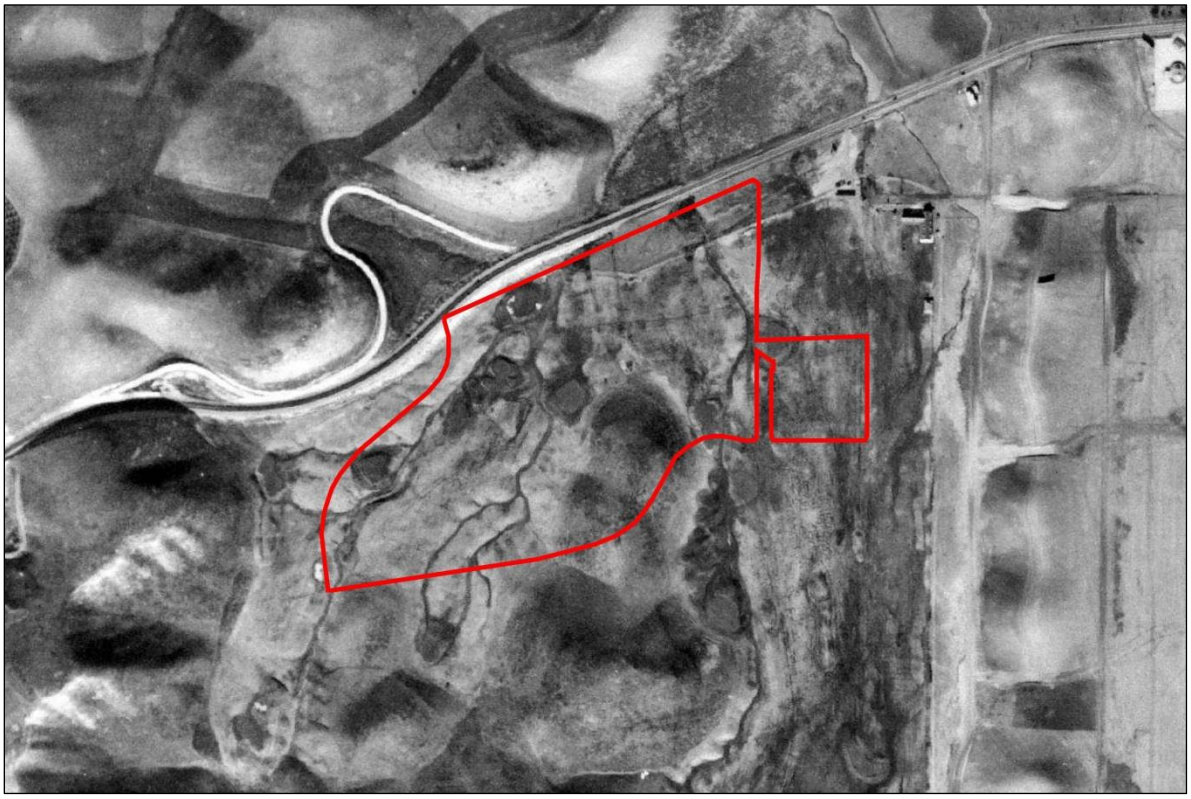


Imagery provided by Google and its licensors © 2017.
Additional data provided by LA Unified School District, 2017.

3.2 Site History and Construction Chronology

According to historic aerial photographs, the Taft High School site and surrounding areas were primarily undeveloped or in agricultural use prior to the school's construction in the late 1950s (Figure 4). As with all of the San Fernando Valley and greater Los Angeles, the east Woodland Hills neighborhood experienced substantial growth in the years after World War II.[14] In the area surrounding Taft High School, for example, between 1953 and 1961, the neighborhood's population increased fivefold, from 1,500 to over 7,500, resulting in a pressing demand for new infrastructure and services.[15]

Figure 4 1928 aerial photo, future site of Taft High School (Source: Environmental Data Resources 2017)



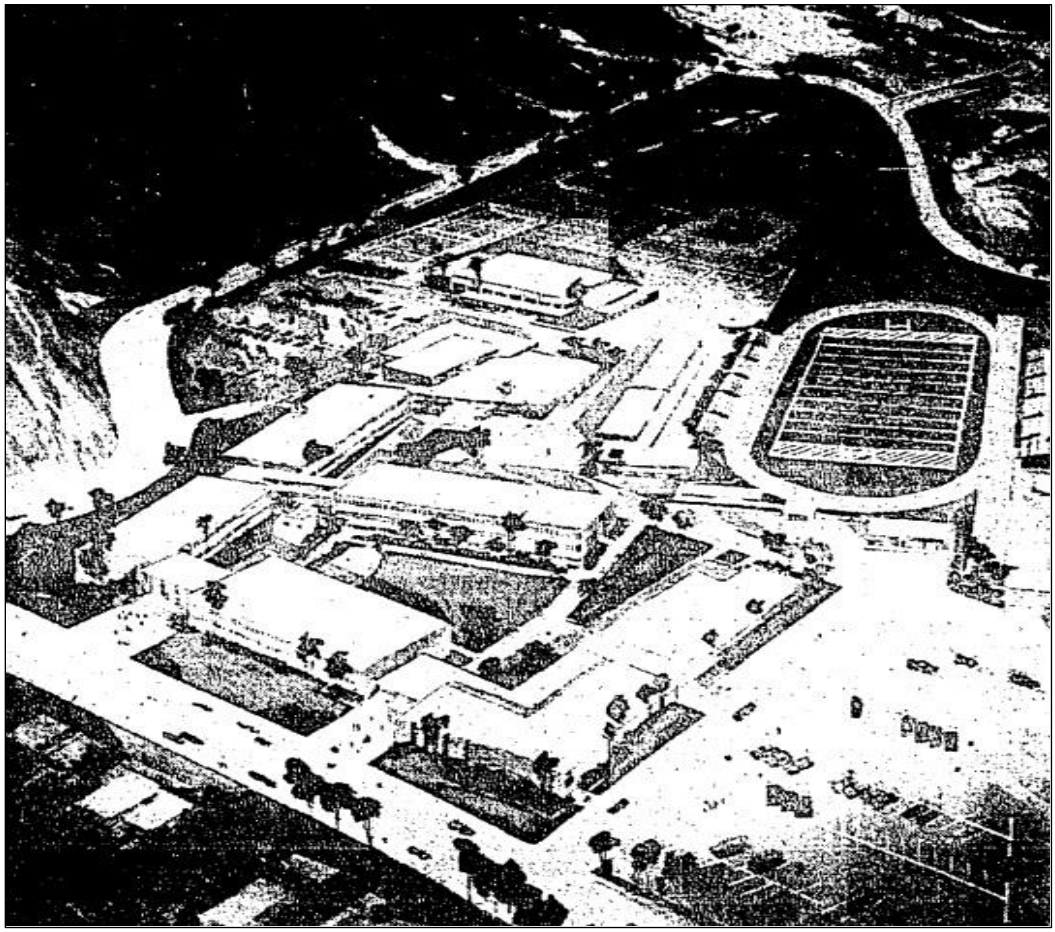
Plans for the construction of Taft High School were announced in 1957, just as the need for half-day sessions hit a high mark in the district, with a total of 48,000 classrooms adopting partial-day schedules to keep pace with pupil demand.[16] At the time, the scale of Taft High School was noted as an impressive indication of school facility expansion in the district.[17] Taft High School was anticipated to be one of the largest in Southern California, providing accommodations for 2,500 students with the capacity of expanding in the future to 3,200 students. It was planned to serve the communities of Woodland Hills, Tarzana, and southern Canoga Park, thus relieving the crowded

[14] Environmental Data Resources, Inc. (EDR). 2017. EDR Aerial Photo Decade Package Report: Taft High School. Shelton, CT. June 20; Kevin Roderick, *The San Fernando Valley: America's Suburb* (Los Angeles: Los Angeles Times, 2001).
[15] "Plan Birthday Fete in East W'land Hills," *Van Nuys News*, 24 January 1961.
[16] Sapphos Environmental, Inc., 2014, p. 106.
[17] "Big School's Cost set at $5, 000, 000," Los *Angeles Times*, 10 November 1957.

conditions at the existing Canoga Park and Reseda High Schools. Funding for the new school was provided through the 1958 voter-approved bond measure, Proposition E; in a reflection of the rapid, extensive residential settlement that transformed the San Fernando Valley in the postwar period, Proposition E funded construction of 65 high schools.[18] Much of this new construction was focused on the San Fernando Valley, an area that experienced unprecedented growth during the postwar period. By the end of the 1950s, the student population of the Los Angeles City school district doubled from 316,000 to over 645,000 in 10 years alone.[19]

The firm of Balch-Bryan-Perkins-Hutchason was selected as the architect for Taft High School. Ropp and Ropp served as the structural engineers, Lester R. Kelly served as the mechanical engineer, William L. Bangham served as the civil engineer, and C. Mauk and F. Van Sickle served as electrical engineers.[20] Preliminary plans were completed by 1957, and two firms were contracted to complete construction, R.J. Daum Construction Co. and M.J. Brock & Sons.[21]

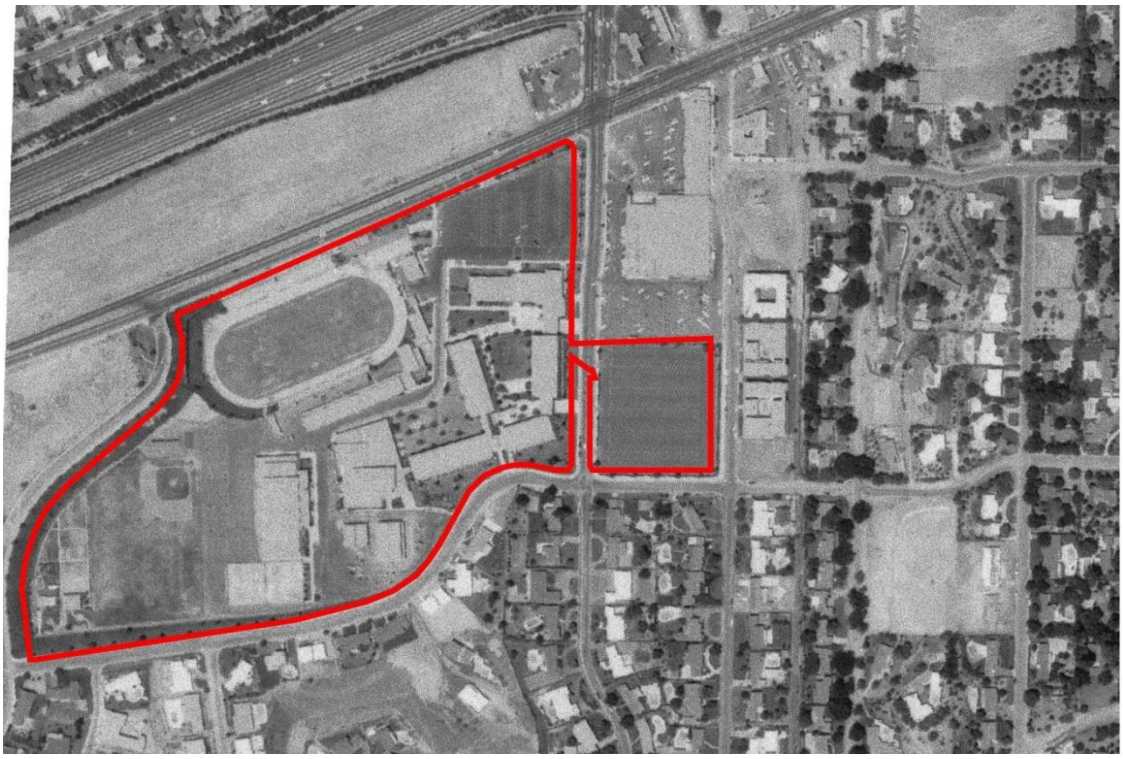
Figure 5 1957 rendering of Taft High School, Balch-Bryan-Perkins-Hutchason, architect (Source: Proquest 2017)



[18] "Bond Issue to Give Valley 65 High School Projects," *Los Angeles Times*, 1 May 1958.
[19] Sapphos Environmental, Inc., 2014, p. 102.
[20] Los Angeles Unified School District. Vault Drawings: 1954-2014. Site Paving Plan-Corrected As Built, November 1960. From LAUSD Facilities Site Portal, Site 13787: Taft HS, Los Angeles, CA. Available at the Los Angeles Unified School District.
[21] "Site Work for Major School Is Furthered," *Los Angeles Times*, 12 April 1959.

Campus construction was completed in 1960 for a total of $5 million.[22] With a cohesive site plan, tailored to its sloped topography, and Mid-Century Modern design, Taft High School offered a state-of-the-art campus with all the modern facilities and amenities. These included an administration building, adaptable multi-purpose building, a gymnasium, a cafeteria with open-air seating, football field, running track, industrial arts building, and, in a feature that became essential for postwar LAUSD campuses, an outdoor stage and assembly area (Figure 6 and Figure 7). By designing multi-story buildings with split-level floors that responded to the topography, the school's architects efficiently designed the campus to fit the topography and accommodate as much classroom space as possible. [23]

Figure 6 Aerial View of Taft High School, 1964; (Source: Environmental Data Resources 2017)



[22] "$5 Million Taft High School in Operation," *Los Angeles Times*, 15 September 1960.
[23] *Los Angeles Times,* 1959.

Figure 7 Taft High School, as shown in 1961 (Source: Los Angeles Public Library)

Tenets of Mid-Century Modernism were utilized in designing the campus buildings, with the site plan following an enclosed campus principle, which Balch-Bryan-Perkins-Hutchason also applied to other Los Angeles area schools. In contrast to a finger plan campus, this modified cluster-plan design features an inward-turning campus, with buildings, associated landscapes and courtyards, circulation corridors, and gathering areas located in relation to each other, within the campus.[24] An emphasis was placed on providing students with natural light, fresh air, and abundant outdoor space for both passive and active recreation. This was accomplished through buildings with central corridors and classrooms facing outdoors, large expanses of windows spanning classrooms, exterior covered corridors for circulation, enclosed breezeways with large expanses of windows, outdoor sitting and eating areas, the outdoor stage, and landscaped courtyards between buildings (Figure 8).

Taft High School's principal was quoted as saying that the Board of Education considered it "the best built school in the system" at the start of its first school year.[25]

[24] "Morningside School to Have 10 New Units," *Los Angeles Times*, November 14, 1954.
[25] *Los Angeles Times*, 15 September 1960.

Figure 8 1961 Photograph, Classroom Buildings C and D (Source: Los Angeles Public Library)

By the time Taft High School opened, Los Angeles voters were showing signs of bond measure fatigue for school construction. The demand for classrooms, however, only continued to increase. In July 1961, for example, a long-standing campaign to unify smaller school districts under one umbrella came to fruition, as voters approved the creation of the Los Angeles Unified School District, which immediately became the second largest public school district in the United States. California continued to attract new residents, though, with San Fernando Valley's expansion continuing apace. By 1963, student enrollment in the San Fernando Valley "accounted for one-third of the total for the district."[26]

Taft High School was the first high school to serve the community of Woodland Hills. Numerous buses were utilized daily to transport 1,300 sophomore and junior grade students alone, from a surrounding area covering 115 square miles. Whereas sophomore and junior grade students attended Taft High School, seniors were transferred to Canoga Park High School. Enrollment grew rapidly; by 1965, Taft High School's attendance had jumped to 3,315 students. To accommodate the increasing volume of students, provisions were made to place all students on extended-day sessions, offered in shifts in order to best utilize available classroom space and instruction time.[27]

During the postwar period, campuses through the District, in particular in the San Fernando Valley, were obliged to adopt staggered class schedules to keep up with enrollment demand. In the postwar period, few agencies would have felt the effects of the baby boom earlier or more acutely

[26] Sapphos Environmental, Inc., 2014, p. 106.
[27] Information in this paragraph was gathered from multiple *Los Angeles Times* articles which are cited in the Bibliography section.

than the school districts. This remained the case in the San Fernando Valley from the immediate postwar years to well into the 1960s. In terms of staggered class schedules, as pointed out in the LAUSD Historic Context Statement:

> Although the district temporarily succeeded in decreasing the need for half-day sessions in 1948–1949, by 1952 the sheer numbers threaten to overwhelm its ability to keep up. Without a new building campaign, the number of students needing to attend half-day sessions was predicted to increase from 11,355 in 1952 to 100,000 by 1957. By 1965, in the San Fernando Valley, demand was so great that school district officials began predicting that school plants would soon occupy high-rises, a trend that was not desired but seen as a possibility.[28]

These numbers did not let up in the 1960s. In 1962, as California had become the most populous state in the nation, an estimated 20,000 half-day sessions were needed. In spite of the need for new schools, it is noteworthy that voters declined to support a $128-million bond measure that would be allowed for new school expansion.

In spite of the level of demand, it is a noteworthy reflection of the design ideals of the time that, the buildings of Taft High School and so many others in the San Fernando Valley constructed during this time period, did not make good on the prediction stated above and give way to school high-rises. The insistence on limiting the scale of school buildings continued to reflect a long-standing notion that schools should be child-scaled and pedestrian-friendly.

In the case of Taft High School already facing overcrowding within a few years of opening, a plan was proposed to transfer some students from the Las Virgenes Unified School District – which had an agreement to utilize LAUSD school facilities – to Chatsworth High School instead.[29] Accordingly, three additional classroom buildings were constructed between 1964 and 1967 near the southern portion of the property. The classroom building constructed in 1967 was designed by the original architects Balch, Hutchason and Perkins (Bryan had left the firm by this time), and included classrooms, a faculty workroom, lockers, and sanitary facilities.[30] This new, larger building replaced a smaller building, and allowed the school to remove two portable/ temporary classroom buildings that had been located next to the tennis courts.[31] An additional set of bleachers was also constructed around the football field in approximately 1963.[32] Between 1964 and 1966, an announcer's booth was built at the top of the northern set of bleachers, and two small storage buildings were built along the eastern perimeter of the football field.

As per LAUSD records, in 1968, repair work was completed on a portion of the Administration Building due to fire damage. The affected area was the attendance and vice principal's offices near the southwestern end of the building. The majority of the repair work appears to have taken place in the interior of the building and included replacing plaster, gypsum board, acoustical tile, metal partitions, and glass. In addition, some of the exterior porcelain enamel panels were also replaced.[33]

Two small buildings that once existed at the southwestern edge of the property were removed; today that area is mostly occupied by portable/temporary buildings, including a restroom and five

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[28] Sapphos Environmental, Inc., 2014.
[29] "School Board Chief to Take Part in Student Transfer Discussion," *Los Angeles Times*, 7 January 1963.
[30] "Final Plans on 2 Schools Get Approval," *Valley News*, February 21, 1967.
[31] Environmental Data Resources, Inc. (EDR). 2017. EDR Aerial Photo Decade Package Report: Taft High School. Shelton, CT. June 20.
[32] LAUSD Vault Drawing # 55714B3F2.
[33] "The Tribune Newsletter from Taft High School, Woodland Hills," *Van Nuys Valley News*, 11 October 1968; LAUSD Vault Drawing # 4CA865D30.

classroom buildings with original construction dates from the 1950s that were added to the campus between 1980-89, and five modular buildings were also added to the southwestern edge of the campus in 2001.

Following the 1994 Northridge earthquake, several buildings on the campus required minor repair work, which entailed repairing cracks and spalling in walls and ceilings, and replacing damaged ceiling tiles. This type of work was performed on Classroom Buildings A, B, C, D, and G, the Administration, Multi-Purpose, Gymnasium, Agricultural, and both Industrial Arts Buildings.[34]

[34] Information in the above paragraph was gathered from the analysis of LAUSD Vault Drawings, listed in Table 1.

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4 Focused Neighborhood Context

This section presents historic context and background on the development and settlement history of the area surrounding Taft High School, in Woodland Hills and San Fernando Valley, drawn from the LAUSD Historic Context Statement and Los Angeles Office of Historic Resources SurveyLA survey report.

From the time of Taft High School's opening in 1960, the school's story and early growth mirrored the growth of the San Fernando Valley. As noted earlier, even for a campus designed to accommodate a maximum number of students, Taft High School had already grown overcrowded by the mid-1960s. The issue of extended-day sessions and classes offered in shifts posed a problem at schools throughout the District in the postwar period, in particular in the San Fernando Valley. As noted in the LAUSD Historic Context Statement:

> The biggest challenge facing the district during the postwar era was keeping up with demand. In Southern California, one of the areas with the most rapid growth was the San Fernando Valley. Between 1930 and 1950, population expansion in the San Fernando Valley was remarkable even by Southern Californian standards. With new settlers drawn by the area's emerging aerospace and entertainment industries, residential expansion had already been under way in the San Fernando Valley by the 1920s and 1930s. By the onset of the Great Depression, for example, the valley had become one of the United States' most important hubs for the aviation industry. Given the valley's concentration of jobs, population doubled from approximately 51,000 in 1930 to 112,000 by 1940.
>
> With the advent of World War II and an infusion of federal funds for defense industry spending, these figures skyrocketed by another 50 percent in 5 years, increasing from 112,000 in 1940 to 176,000 by 1945. Between 1945 and 1950, a nearly fourfold increase was recorded, with figures climbing to 402,000. Given the magnitude of this expansion, a majority of post-1945 school construction for the district overall took place throughout the San Fernando Valley.

As illustrated in the following excerpt from the 2013 SurveyLA historic resources survey report for the Canoga Park-Winnetka-Woodland Hills-West Hills Community Plan Area, these trends were experienced throughout the San Fernando Valley in this period:

> "The demand for housing following World War II was central to the development of the Survey Area. In the five years between 1945 and 1950, the population of the San Fernando Valley doubled to just over 400,000. Anticipating postwar growth, the City initially planned for the development of the Valley to follow prevailing regional planning principles, with small urban employment centers and residential subdivisions surrounded by agricultural land. Two planning documents—a 1943 Master Plan and a 1944 Zoning Plan—called for the retention of agricultural zones around self-contained urban communities with designated industrial and commercial areas to supplement the agricultural economy and supply employment for present and future residents. However, due to the area's exponential growth and unprecedented demand for housing, agricultural land was quickly converted into residential subdivisions and the plans were never fully realized.
>
> By the 1930s, the San Fernando Valley had also become one of the fastest-growing centers for the aviation industry in the United States, and one of the major employers in the Valley.

This trend continued in the post-World War II era, with large defense engineering firms locating in the Survey Area. Rocketdyne and Litton Systems Industries (now Northrop Grumman) established their industrial campuses in Canoga Park and Woodland Hills in 1955 and 1959, respectively, becoming major employers in the area and bolstering the postwar housing boom.

The postwar years brought tremendous change to the character of the Survey Area, including the already established communities of Owensmouth and Girard. Large residential subdivisions cropped up throughout the area and as the demand for housing grew, land value skyrocketed. Fragmented urban development encroached on orchards and ranches. As a result, farmers could no longer make enough profit to cover rising property taxes and most were forced to downsize or sell. Properties that formerly included multiple acres were subdivided. The opening of the 101 and 405 Freeways in the early 1960s further bolstered suburban growth, connecting the Survey Area to the downtown and Westside business districts in Los Angeles. Single-family residential development continued south into the foothills of the Santa Monica Mountains and west into the Simi Hills during the late 1950s through the 1970s.

One of the last ranches in the area to be developed was that originally owned by Harry Warner, of the motion picture industry's famous Warner Brothers. Warner's ranch near De Soto Avenue and Oxnard Street comprised over a thousand acres used initially to raise thoroughbred horses. In the 1970s, this large piece of undeveloped land was transformed into Warner Center, which was first envisioned as a mass transit-oriented neighborhood that would help relieve automobile traffic moving between the Valley and downtown Los Angeles by providing the Valley with its own dense urban hub. Composed of low- and high-rise corporate office buildings, residential and commercial uses (including Westfield Promenade), Warner Center is facing another potential transformation with the development of a 2035 Specific Plan, which aims to make the community higher-density, more residential, and more pedestrian-friendly.

A long history of racially restrictive housing and ownership practices meant that most of the Valley remained "a thoroughly white domain" even through the post-World War II boom. Historian Kevin Roderick observed that restrictive covenants had factored into patterns of town building and settlement going back to the Valley's earliest history. Minorities who resided in the San Fernando Valley were generally confined to the communities of San Fernando and Pacoima, which were relatively ethnically diverse from the early twentieth century. The early towns of Owensmouth and Girard were no exceptions, with enforced deed restrictions prohibiting non-white homebuyers. Deed restrictions like these were common throughout the greater San Fernando Valley and were not effectively eliminated until well into the 1970s. Today, the communities within the Survey Area are increasingly diverse, with growing percentages of Asian American and Latin American ethnic groups.[35]"

[35] Historic Resources Group, 10-12.

5 Associated Design Professional Biographies

The following section presents biographies for design professionals who are known to be associated with Taft High School.

5.1 Campus Architects Balch-Bryan-Perkins-Hutchason

Taft High School was designed by Balch-Bryan-Perkins-Hutchason, a Los Angeles-based architecture firm founded by William and Clifford Balch, Louis L. Bryan, John Loring Perkins, and Willis K. Hutchason in 1953. A native of Pasadena, William Glenn Balch was born June 26, 1901 to William C. and Anna Balch. William Glenn's father worked as a carpenter, and one of his older brothers, Clifford A. Balch, practiced as an architect. He attended the University of Southern California's School of Architecture for one year, and Pacific Coast University College of Arts and Science for one year. William Glenn worked as a draftsman for various firms during the 1920s and 1930s including L.A. Smith, Walker & Eisen, Henry L. Gogerty, and with his brother Clifford A. Balch.[36]

The Balch brothers worked together to design the Golden Gate Theater in East Los Angeles in 1927, which was listed on the National Register of Historic Places in 1982.[37] Balch and Bryan went on to design numerous drive-in theaters during the late 1940s, including the Century Drive-In in Inglewood, Gage Drive-In in Commerce, the Terrace Drive-In in Bakersfield, and the Gilmore Drive-In in Los Angeles' Fairfax District.[38]

During World War II, Balch served as the Design Coordinator for the Naval Ordnance Test Station at China Lake, California (1943-1945). He partnered with Louis L. Bryan in 1946, creating the firm Balch and Bryan Architects based in Los Angeles.[39] In 1953, John Loring Perkins and W.K. Hutchason joined the partnership to create Balch, Bryan, Perkins, Hutchason, a general architecture practice.[40] Balch also served as the president of the Southern California chapter of the American Institute of Architects in 1955.[41]

William Glenn Balch held various leadership positions in the Southern California Chapter and the California Council of the American Institute of Architects. He also delivered numerous speeches on architecture and construction topics during the late 1950s and early 1960s. Balch was made a fellow of the American Institute of Architects in 1962.[42]

Louis L. Bryan was born in 1900 in Virginia. Although he appears to not have obtained formal college training, by 1940 he was working as an architectural draftsman in Los Angeles.[43] By 1946, he had partnered with William G. Balch to form the firm Balch and Bryan Architects, also based in Los

[36] Historic Documentation Report for the Golden Gate Theatre, Chattel, Robert and Kathryn McGee. 2012.
[37] "NP Gallery Digital Asset Management System," National Park Service, N.D.
[38] "Drive-In Construction Replete with Problems," *The Bakersfield Californian*. 12 July 1949; PCAD 2005-2015.
[39] PCAD 2005-2015.
[40] "Architectural Firm Announces Opening," *Architect and Engineer*. vol. 195, no. 2, November, 1953.
[41] PCAD 2005-2015.
[42] AIA, 2017; Chattel and McGee 2012.
[43] U.S. Bureau of the Census, 1940.

Angeles.[44] In 1953, John Loring Perkins and Willis K. Hutchason joined the partnership to create Balch-Bryan-Perkins-Hutchason.[45] It appears that Bryan left the firm in approximately 1960.

John Loring Perkins was born in South Dakota in 1912 and obtained a Bachelor's degree in Architecture in 1941 from the University of Minnesota, Minneapolis-Saint Paul.[46] Perkins worked as a draftsman and field superintendent for his father Robert A. Perkins, whose firm Perkins and McWayne was located in Sioux Falls, South Dakota. Perkins went on to work for the firm Giffels and Vallet in Detroit, Michigan, and for the Metcalf-Hamilton Kansas City Bridge Company. In 1944, Perkins began working as a draftsman for Henry L. Gogerty, who was prolific in school design.[47] However, only a year later, Perkins went to work as a designer for William G. Balch and Louis L. Bryan, eventually becoming a partner in the firm in 1953. In 1966, John Perkins was honored with second place in a national specification contest by the Construction Specifications Institute (CSI) of Washington D.C., for his specifications at Mission Viejo High School in El Toro. Perkins served on one of the CSI's committees called the National Technical Planning Committee, which concerned itself with the improvement of construction specifications and the reduction of building costs.[48]

Willis K. Hutchason was born in Los Angeles, California in 1920.[49] He attended the University of Southern California, but it is not known if he graduated with a degree. By 1940, Hutchason was working as an architect in Los Angeles, and by 1953 he had become a partner in the firm Balch, Bryan, Perkins, Hutchason.[50] It seems that Hutchason was working on his own by the late 1960s and 1970s.[51]

Although the firm of Balch-Bryan-Perkins-Hutchason did work in other areas, during the 1950s and 1960s it appears to have focused on school building and campus design, working for various school districts in southern California. The firm became known as specialists in school construction. It appears that Louis L. Bryan left the firm in approximately 1960, as articles regarding the firm's projects after that time omit his name. In 1966, the *Los Angeles Times* reported that Balch, Hutchason, Perkins had completed $80 million in school construction.[52] In the mid-1960s, the firm served as district architect for both Tustin Union High School District and Monrovia Unified School District.[53] The firm was known for employing cost saving measures and designing in the latest school designs, including cluster and finger plan layouts. They were also known for using aircraft to survey school sites in an effort to create designs sympathetic to neighborhood surroundings and appropriate for trends in growth.[54] Besides William Howard Taft High School, other school projects included: Colfax Avenue Elementary School in North Hollywood (1951), Oak Grove Elementary School in La Cañada (1952), Wilson Elementary School in Tulare (1954), Pacoima Junior High School in Pacoima (1955), additions to Morningside High School in Inglewood (1955), additions to Malaga Cove Elementary School in Palos Verdes Estates (1956), and several elementary schools in Azusa and Palmdale.[55]

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[44] PCAD 2005-2015.
[45] *Architect and Engineer*. 1953.
[46] PCAD 2005-2015.
[47] "Henry L. Gogerty: Architect Who Designed Gliding Classroom Walls," *The Los Angeles Times*. 6 April 1990.
[48] "Perkins Wins Award for School Plans," *San Bernardino County Sun*, 3 June 1966.
[49] U.S. Bureau of the Census, 1940; Obituary for Willis K. Hutchason, *The Desert* Sun, 3March 2007.
[50] *Architect and Engineer*. 1953.
[51] "B.H. Passes $1 Million for School Improvements," *The Los Angeles Times,* February 22, 1976.
[52] "They Must Design Schools on a '53 Budget," *The Los Angeles Times.* 25 December 1966.
[53] "Observe School Sites via Aerial Survey," *The Tustin News*. 29 April 1965.
[54] *The Tustin News* 1965.
[55] PCAD 2005-2015; Chattel and McGee 2012; *Architect and Engineer* 1955.

6 Significance Evaluation

This evaluation utilized the framework for historic resource assessments described in the *LAUSD Historic Context Statement, 1870-1969*, which follows the NRHP Multiple Property Documentation format (MPD). The MPD format "defines themes of significance, eligibility standards, and related property types. Properties sharing a theme of significance are then assessed consistently, in comparison with resources that share similar physical characteristics and historical associations."[56] In addition, this evaluation utilized the MPD-format historic context statements prepared as part of SurveyLA, which similarly identify themes of significance along with associated registration requirements.[57]

In addition to each of the applicable federal, state, and local designation criteria, two evaluation frameworks and their associated eligibility standards and integrity thresholds were identified and applied to this evaluation after careful consideration of all themes and subthemes. Each property within the campus was evaluated using these evaluation frameworks for eligibility both individually, as well as a contributor to any potential historic district.

Evaluation Framework 1

Context:	Public and Private Institutional Development | Education
Theme:	LAUSD | Educating the Baby Boom: the Postwar Modern, Functionalist School Plant, 1945-1969
Property Type:	Institutional/Education
Property Subtypes:	Elementary, Junior High Schools, and High School Buildings and Campuses
Period of Significance:	1945 to 1969
Area of Significance:	Education
Geographic Location:	Citywide, with concentrations in the San Fernando Valley and West Los Angeles
Area of Significance:	A/1, C/3

Eligibility Standards

- Clearly embodies the characteristics of a postwar modern functionalist school campus
- Displays a unified, functional site design, with buildings extending across the site and oriented in relation to outdoor spaces (courtyards, patios, outdoor play areas)
- One-story massing for elementary schools; up to two-stories for junior/high schools
- Classrooms, in detailing and plans, clearly express their function, with axial, fingerlike wings, plentiful fenestration, and connections to the outdoors
- Retains most of the associative and character-defining features from the period of significance

[56] Sapphos, 4.

[57] Los Angeles Department of City Planning Office of Historic Resources.

Character-Defining Features – Buildings/Structures

- Building plans and site design clearly express their function; classroom wings often exhibit one-story "finger-like" wings, arranged on an axis
- Easily identifiable indoor-outdoor spaces, connections to classrooms through the incorporation of patios, courtyards, and outdoor canopied corridors
- One-story massing, particularly for elementary schools; up to two to three stories for junior and high schools
- Building types and plans expressive of postwar ideals in school design; these can include (1) finger-plan schools (usually in 1940s through 1950s); (2) cluster-plan schools (beginning in 1950s); and (3) variations and combinations of these typologies clearly expressive of the ideals for informality, indoor-outdoor connections, and zoned planning for the site
- Varying elevations might display differentiated window sizes and configurations, in order to tailor interior light to sun patterns and create cross-lit classrooms

Character-Defining Features – Campus/District

- Unified campus design includes most or all of the following attributes: lack of formality and monumentality; low massing (usually one stories for classrooms and up to two stories for auditoriums/multipurpose rooms); strong geometric ordering of buildings and outdoor spaces; decentralized, pavilion-like layout; rational, function driven site design; buildings extend across the site; buildings are oriented to outdoor spaces (courtyards, patios, outdoor areas), purposeful indoor-outdoor integration
- Automobile traffic/drop-off areas separated from campus; linked to interior via extended canopied corridors
- Buildings often turn inward, toward green spaces and courtyards, lawns
- Outdoor corridors, sheltered beneath simple canopies, forming links between the buildings of the campus
- Classrooms often consist of a series of axial, modular units
- An informal, domestic scale for the buildings and campus might be especially evident in elementary schools
- Swaths of patios, terraces, and plantings adjacent to and alternating with buildings
- Generous expanses of windows, including steel- and wood-framed multi-light windows, in awning and hopper casements, clerestories, and fixed panes
- Flat roof or broken-plane roof often used for lighting and acoustical issues
- Modular design, with a rhythmic, asymmetrical but balanced composition
- Usually displays a modern design idiom, usually either regional modernist (with use of native materials such as stone, brick, and wood siding and/or framing), International Style modernist, or, by the early 1960s, Late Modern (more expressive and sculptural)
- Some examples might include some degree of historicist detailing or styles popular in the postwar period (such as American Colonial Revival); these are less common than modernist examples

- May have been designed by a prominent architect of the period
- Often associated with post–World War II suburbanization and growth near major employment centers beyond the city periphery (such as the San Fernando Valley and southwest Los Angeles)
- Often built in residential neighborhoods on large expanses of land, with swaths of land devoted to landscape design and playing fields (in particular for high school campuses)

Integrity Considerations

- Retains most of the essential physical features from the period of significance
- School expansion and new construction over the years, in particular in the postwar period, might have resulted in the addition of in-fill buildings and structures in areas that were originally designed open spaces. Such new additions should not interfere with or serve as a visual impairment to the designed connections between buildings, in particular classroom wings, and adjacent outdoor patios and spaces.
- Many postwar schools were designed to be easily expandable as enrollment increased; the original site design and building types and plans should be readily discernible. If additional wings were added or the campus extended, the additions should be compatible with and visually subordinate to the original
- Some materials may have been removed or altered
- Modern lighting and fencing of site acceptable
- Should retain integrity of Setting, Materials, Design, Workmanship, Feeling, and Association from its period of significance
- Addition of portable or permanent buildings after the period of significance acceptable as long as original campus design is intact

Evaluation Framework 2

Context:	Architecture and Engineering, 1850-1980 | L.A. Modernism, 1919-1980
Theme:	Post-War Modernism, 1946-1976 | Mid-Century Modernism, 1945-1970
Property Type:	Institutional
Geographic Location:	Citywide - known concentrations in Silverlake, Hollywood; Hollywood Hills; Brentwood, and communities largely developed in the post-World War II era, such as those in the South Bay (Playa del Rey, Westchester) and the San Fernando Valley
Area of Significance:	C/3

Eligibility Standards

- Exhibits quality design through distinctive features

Character-Defining Features

- Direct expression of the structural system, often wood or steel post and beam
- Flat roofs, at times with, wide overhanging eaves
- Floor-to-ceiling windows, often flush mounted metal framed

- For the National Register, property must possess exceptional importance if less than 50 years of age
- Horizontal Massing
- If Expressionistic: sculptural forms intersecting with geometric volumes
- If Expressionistic: curved, sweeping wall surfaces
- If Expressionistic: dramatic roof forms, such as butterfly, A-frame, hyperbolic paraboloid, folded plate or barrel vault
- Simple, geometric volumes
- Unornamented wall surfaces

Integrity Considerations

- Original garage doors may have been replaced
- Original setting (surrounding buildings, landscape) may not be intact (this applies to individual resources only; buildings associated with corporate or institutional
- Original use may have changed
- Replacement of some windows and doors may be acceptable if the openings have not been resized and original fenestration patterns have not been disrupted
- The addition of decorative elements to originally sparse façades
- The addition of security features such as screen doors and bars at windows
- The painting of surfaces (wood) that might have originally been unpainted

6.1 Designation Criteria A/1/1

Historic District Evaluation: Construction of Taft High School was completed in 1960, at a time when the San Fernando Valley was experiencing significant population growth. In 1958, voters passed Proposition E providing over $81 million for the construction and expansion of high schools throughout the Los Angeles School District. Funding from Proposition E allowed the construction of 65 high schools, including Taft High School. While the purpose of Taft's construction was to help relieve the crowded conditions at Canoga Park and Reseda High Schools, the new campus could not keep up with demand, adding two additional classroom buildings in 1964 and 1967. As the first high school constructed in the community of Woodland Hills, the school is associated with the massive postwar expansion of LAUSD facilities in the San Fernando Valley. However, settlement patterns reflecting the suburbanization of the San Fernando Valley and its rapid population growth had begun over a decade earlier. Following World War II, increased defense spending promoted job creation and population growth throughout the San Fernando Valley. Between 1945 and 1950, a nearly fourfold increase in population was recorded, with figures climbing to 402,000. Although the school is associated with the growth of settlement in the San Fernando Valley, its construction was a result of the population growth and not a driving factor in the area's settlement patterns.

Furthermore, as one of 65 high schools constructed with funding from Proposition E, research did not reveal any significant relationship between Taft High School and the expansion of LAUSD facilities in the San Fernando Valley at the time. The school was not the first built school of the Proposition E funded school expansion, nor does it appear to have influenced patterns of expansion throughout the district. While the school embodies LAUSD's principles of design and campus

planning for that era, it did not significantly influence the development of the cluster plan school format. Cluster plan schools began to develop in the early 1950s as architects started to experiment with changes to the earlier Finger Plan Schools. The firm of Balch-Bryan-Perkins-Hutchason, which designed Taft High School, began experimenting with the cluster plan approach as early as 1954, with their design for Wilson Elementary School in Tulare. The firm applied principals of the cluster plan approach in their designs for Pacoima Junior High School in Pacoima (1955). Therefore, the design and development of Taft High School does not appear to have significantly influenced the development of the cluster plan design identified in *LAUSD Historic Context Statement, 1869-1970* under the theme of "Educating the Baby Boom: The Postwar Modern, Functionalist School." Based on this evaluation, Taft High School does not appear to satisfy the significance requirements under National Register Criterion A, California Register Criterion 1, or LAHCM Criterion 1 as a historic district.

Individual Resource Evaluation: Although the individual buildings of the Taft High School Historic District embody many of the character-defining features identified in *LAUSD Historic Context Statement, 1869-1970*, they are not individually representative of postwar modern functionalist school design. Rather, they acquire their significance as a unified and identifiable entity. Research did not reveal any additional associations with significant events to confer individual eligibility under National Register Criterion A, California Register Criterion 1, or Los Angeles Historic-Cultural Monuments (LAHCM) Criterion 1.

6.2 Designation Criteria B/2/2

Historic District and Individual Resource Evaluation: As a public high school, Taft High School and its individual buildings are associated with a number of individuals who attended, visited, or taught at the school. However, per the guidance of the National Park Service, properties that are significant for their association with an important person in our past, must illustrate a person's important achievements.[58] Archival research completed as part of this study failed to identify any direct and significant associations that are directly represented by the campus. As a result, the subject campus and its individual resources do not appear not appear eligible for designation either individually or as a historic district under Criterion B/2/2.

6.3 Designation Criteria C/3/3

Historic District Evaluation:

Although Taft High School was not influential in the development of the cluster plan school, it is an intact example of the property type, reflecting the changing approach to school design during the post-war period. The school's site plan illustrates common characteristics of cluster plan schools, such as the grouping of buildings around shared courtyards, and communal outdoor spaces. The siting of the buildings and their design in response to the property's topography reflects a rational, function-driven site design, which lacks a formality or monumentality. It integrates indoor-outdoor connections through covered corridors and enclosed breezeways, which form links between various buildings. Classrooms are pedestrian scaled and have generous expanses of windows with views of the courtyards, and other buildings and outdoor areas, establishing indoor-outdoor connections. Additionally, the school's buildings exhibit the character defining features of the Mid-Century Modern architectural style. The buildings abandon the excessive ornamentation of earlier revival

[58] U.S. Department of the Interior, National Park Service, 14.

styles and exhibit horizontality in their floorplan and massing. They feature modular design composition, low massing, a unified site plan, flat roofs, smooth wall surfaces such as concrete and curtain walls composed of porcelain enamel-coated panels within aluminum framing, and bands of aluminum-framed windows that are mounted flush with the wall with no trim or surrounds, all of which are characteristic of the Mid-Century Modern architectural style. Although some of the windows and exterior cladding panels have been removed for the installation of heating, ventilation, and air conditioning equipment, such alterations are acceptable per the Integrity Considerations, since the window openings and patterns remain intact. Therefore, Taft High School appears to meet the significance requirements under National Register Criterion C, California Register Criterion 3, and LAHCM Criterion 3 as an intact example of the cluster plan school property type and for its Mid-Century Modern architectural design.

Individual Resource Evaluation: Overall, these buildings contribute to and read as an identifiable identity, and therefore are best categorized as a historic district. Those buildings located outside the campus core, including the Gymnasium and Audio Visual Building, do not display the same level of design exhibited in the collection of primary buildings. As a result, none of the buildings appear to meet the requirements under National Register Criterion C, California Register Criterion 3, and LAHCM Criterion 3 as individual resources.

6.4 Designation Criteria D/4/4

While most often applied to archaeological districts and sites, Criterion D/4/4 can also apply to buildings, structures, and objects that contain important information related to history or pre-history. In order for a property to be eligible under Criterion D/4/4, it must be, or must have been, the principal source of the important information. Taft High School does not appear to yield significant information that would expand our current knowledge or theories of design, methods of construction, operation, or other information that is not already documented in other primary or secondary source material. Therefore, the buildings have not yielded and are not likely to yield information important to prehistory or history and do not satisfy the significance requirements of National Register Criterion D, California Register Criterion 4, or Los Angeles Criterion 4.

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7 Integrity

Integrity is the ability of a property to convey its historic significance. To retain integrity, the property must possess enough of its character-defining features, materials, and spaces such that it continues to convey the reasons for its significance. According to the National Park Service, there are seven aspects of integrity: location, design, setting, materials, workmanship, feeling and association.[59]

To retain integrity, a property will always possess several, if not all, of these aspects, with those relevant aspects dependent on the property's significance. The Taft High School Historic District is significant under Criteria C/3/3 as an outstanding and intact embodiment of LAUSD postwar design principles and for its Mid-Century Modern architectural style. As such, those aspects of integrity that are most important in its ability to convey its significance are its integrity of design, materials, workmanship, feeling, and association.[60] All seven aspects as they relate to the subject campus are detailed below:

7.1 Location

Neither the campus nor its individual buildings have been relocated from the original site; the historic district therefore retains integrity of location.

7.2 Design

As designed by Balch-Bryan-Perkins-Hutchason in 1960, the historic district followed the concepts of the cluster plan and enclosed campus plan, with buildings designed in the Mid-Century Modern architectural style. Since this time, the original campus has undergone some alterations through the construction of new buildings and structures; however, these have occurred outside the campus core, which retains its original plan and buildings. Mid-Century Modern design features embodied in the campus buildings include their modular design composition, use of stucco, concrete, and brick veneer, flat roofs, rectangular forms, relative lack of applied ornament, and broad expanses of windows. Minor alterations to these buildings include the construction of wheelchair accessibility ramps, the installation of metal security screens over windows, mounting of lighting and conduit on the exterior of buildings, and possible replacement of original doors. However, the buildings still retain those features that are characteristic of their Mid-Century Modern architectural style, and the historic district collectively still retains its integrity of design.

7.3 Setting

The setting of the historic district has remained largely consistent throughout its existence. Historic aerial photographs indicate that, by the time the school was built in 1960, the surrounding area was beginning to develop with commercial properties along Ventura Boulevard and residential properties to the south. This commercial and residential development continued into the following decades but has since remained similar in scale and character. Within the campus, new

[59] U.S. Department of the Interior, National Park Service, 44-47.
[60] U.S. Department of the Interior, National Park Service, 44-47.

development has occurred outside of the original campus core and has also been similar in scale and character. The historic district therefore retains integrity of setting.

7.4 Materials

In keeping with the campus's Mid-Century Modern architectural style, the palette of materials used in its design are simple, with the most prominent materials being reinforced concrete and masonry construction, brick veneer laid in a running bond, curtain panels composed of porcelain enamel-coated panels within aluminum framing, and aluminum-framed bands of windows. Brick is also utilized throughout campus in garden planters and fence pillars. In general, the majority of the campus retains these materials with little alteration. On one building, the Industrial Arts Building #1, original brick cladding appears to have been painted or sheathed in stucco. Some of the buildings have had HVAC equipment installed, which required the removal of some original windows and porcelain enamel-coated panels. Despite these minimal changes, the historic district still retains integrity of materials.

7.5 Workmanship

The principal character-defining features and materials of the campus's Mid-Century Modern style and site plan are largely unaltered and intact, and the historic district retains integrity of workmanship.

7.6 Feeling

The historic district retains integrity of feeling through its intact Mid-Century Modern architectural style and intact, cohesive site plan, circulation corridors, and related landscape and hardscape features. Later additions to the campus were constructed at the southern edge and southwestern corner of the property and therefore do not detract from the school's integrity of feeling.

7.7 Association

Like feeling, integrity of association is dependent on the retention of those physical features that convey a property's historic character. The Taft High School Historic District retains enough of these features as identified above and therefore retains integrity of association.

7.8 Summary

The Taft High School Historic District retains integrity of location, setting, design, materials, workmanship, feeling, and association. As such, the historic district meets the integrity requirements outlined for postwar LAUSD schools and also Mid-Century Modern-style institutional properties.

8 Character-Defining Features

In accordance with best practices, adopted LAUSD cultural resource policies, and guidance from the National Park Service, character-defining features 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."[61] According to National Park Service Bulletin 17, identification of character-defining features should proceed from large to small details, including:

1) The overall visual aspects,

2) The visual character at close range, and

3) The visual character of interior spaces, features and finishes.[62]

As an eligible historic district, the Taft High School Historic District qualifies as a historical resource pursuant to CEQA. This section describes the "contributing" (or eligible) and "noncontributing" (not eligible) features of the historic district, as well as their character-defining features, materials, and spaces.

Historic districts derive their importance from being a unified collection of related properties; districts are generally comprised of both individually distinctive properties that serve as focal points as well as features that lack individual distinction.[63] Guidance on the definition of a historic district provided by the National Park Service states that:

> the identity of a district results from the *interrelationship of its resources*, which can convey a visual sense of the *overall historic environment or be an arrangement of historically or functionally related properties*.[64]

Contributing features may include buildings, structures, objects, planning and site design features, circulation corridors, and spatial relationships between buildings and outdoor spaces, landscaping/hardscaping.

In addition, per NPS Preservation Brief 17, interior features can include spaces, features, and finishes that lend a historic resource its visual character and therefore contribute to its historic significance. Such features can include "stairways and balustrades, arched openings, interior shutters, cornices, ceiling medallions, light fixtures, balconies, doors, windows, hardware, wainscoting, panelling, trim, waiting room benches," among many other features.[65] In keeping with National Park Service Preservation Brief 17, "It is important that the visual aspects of a building's interior character be recognized before planning any changes or alterations."[66]

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[61] Nelson, Lee H., FAIA. US Department of the Interior. Preservation Brief 17: Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character." National Park Service, Washington, DC, US Government Printing Office

[62] Nelson, Lee H., FAIA. US Department of the Interior. Preservation Brief 17: Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character." National Park Service, Washington, DC, US Government Printing Office

[63] U.S. Department of the Interior, National Park Service, 5.

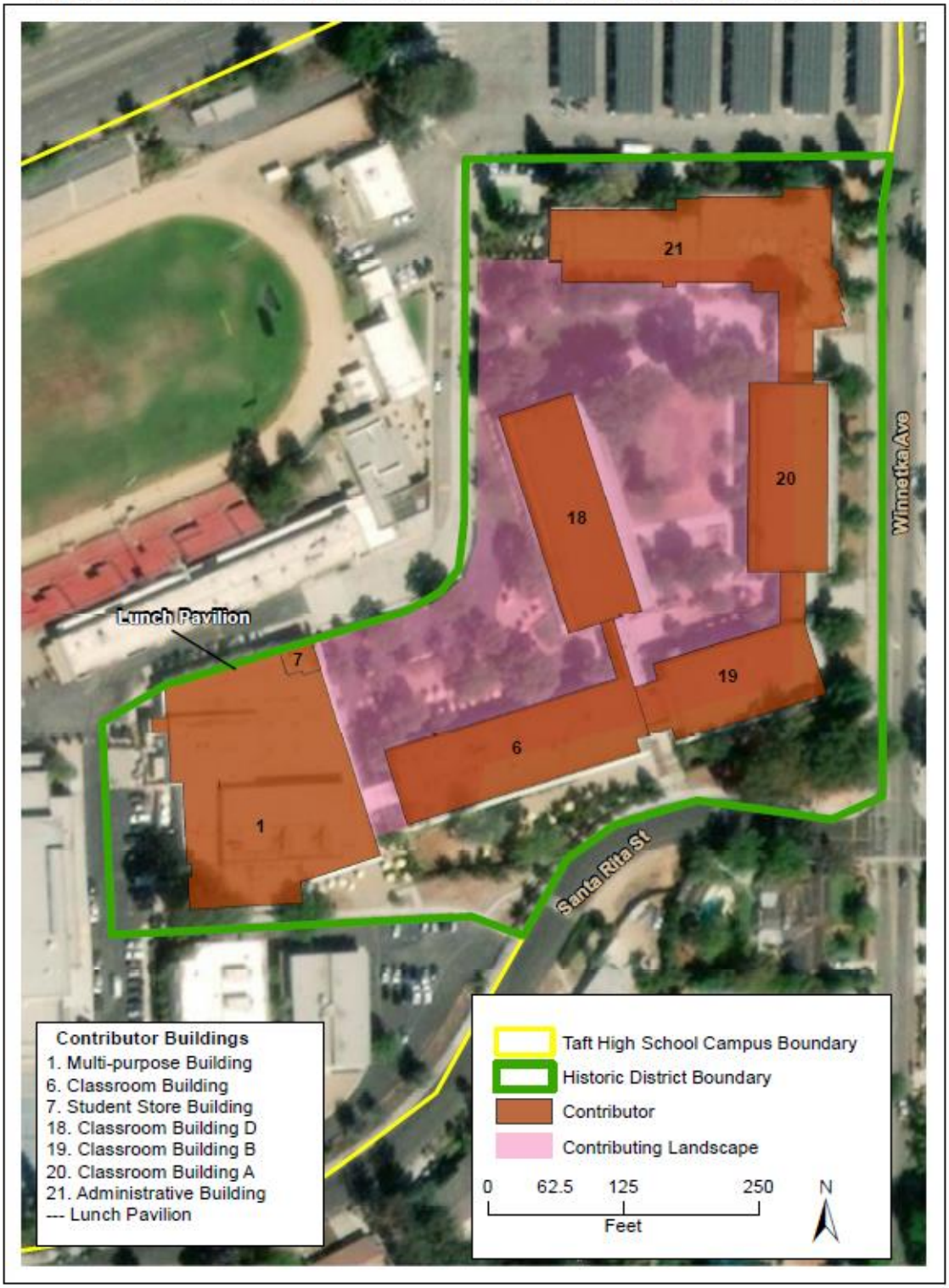
[64] U.S. Department of the Interior, National Park Service, 5. Emphasis added by author.

[65] Nelson, Lee H., FAIA. US Department of the Interior. Preservation Brief 17: Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character." National Park Service, Washington, DC, US Government Printing Office

[66] Nelson, Lee H., FAIA. US Department of the Interior. Preservation Brief 17: Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character." National Park Service, Washington, DC, US Government Printing Office

As discussed above, the Taft High School Historic District is eligible under Criteria C/3/3 as an outstanding example of LAUSD postwar principles of design and campus planning, expressed through its Mid-Century Modern architectural design and its unified, cluster plan site plan. The boundaries of the historic district have been delineated following guidance from the National Park Service. Per this guidance, boundaries should encompass the area that contains the significant concentration of buildings and structures that make up the district. The Taft High School Historic District boundaries have, therefore, been delineated to include clearly defined areas of the campus that reflect its character defining features associated with the cluster plan school property type.

Figure 9 William H. Taft High School Historic District Contributing Features Map



Imagery source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Table 1 Contributing Status of the William H. Taft High School Historic District

No.	Name	Type	Year Built	Contributor Status
1	Multi-Purpose Building	Permanent	1960	Contributor
2	Gymnasium Building	Permanent	1960	Non-Contributor
3	Classroom Building G	Permanent	1967	Non-Contributor
4	Classroom Building F	Permanent	1964	Non-Contributor
5	Classroom Building E	Permanent	1964	Non-Contributor
6	Classroom Building C	Permanent	1960	Contributor
7	Student Store Building	Permanent	1960	Contributor
8	Sanitary Building #1	Permanent	1960	Non-Contributor
9	Industrial Arts Building #2	Permanent	1960	Non-Contributor
10	Industrial Arts Building #1	Permanent	1960	Non-Contributor
11	Athletic Equipment Storage Unit	Permanent	1966	Non-Contributor
12	Audio Visual Building	Permanent	1960	Non-Contributor
13	Storage 3	Permanent	1965	Non-Contributor
14	Sanitary Building #2	Permanent	1960	Non-Contributor
15	Announcer's Booth	Permanent	1964	Non-Contributor
16	Storage Unit 1	Permanent	1960	Non-Contributor
17	Utility Building	Permanent	1960	Non-Contributor
18	Classroom Building D	Permanent	1960	Contributor
19	Classroom Building B	Permanent	1960	Contributor
20	Classroom Building A	Permanent	1960	Contributor
21	Administrative Building	Permanent	1960	Contributor
24	Agriculture Building	Permanent	1960	Non-Contributor
28	Sanitary Relocatable Building	Portable	Post-1981	Non-Contributor
29	Two/Three Unit Relocatable	Portable	Post-1981	Non-Contributor
30	Two/Three Unit Relocatable	Portable	Post-1981	Non-Contributor
31	Two/Three Unit Relocatable	Portable	Post-1981	Non-Contributor
32	Two/Three Unit Relocatable	Portable	Post-1981	Non-Contributor
33	Two/Three Unit Relocatable	Portable	Post-1981	Non-Contributor
34	Double Unit Modular	Portable	2001	Non-Contributor
35	Double Unit Modular	Portable	2001	Non-Contributor
36	Double Unit Modular	Portable	2001	Non-Contributor
37	Double Unit Modular	Portable	2001	Non-Contributor
38	Double Unit Modular	Portable	2001	Non-Contributor
41	Concessions #1	Portable	N/A	Non-Contributor
42	Concessions#2	Portable	N/A	Non-Contributor
--	Lunch Pavilion	Permanent	1960	Contributor
--	Ticket Booth Relocatable	Portable	N/A	Non-Contributor
--	Ticket Booth Relocatable	Portable	N/A	Non-Contributor

8.1 Campus-Wide Character-Defining Features

This section presents an overview of the typical "character-defining features" – or historically significant features – found campus-wide at Taft High School. The categories of features presented here mirror the categories assigned in the *LAUSD Design Guidelines and Treatment Approaches for Historic Schools*: (1) Architectural and Ornamental Detailing; (2) Roof Forms and Features; (3) Façade Treatment; (4) Site Plan and Landscaping Features; and (5) Interior Spaces and Features.

Principal character-defining features of the Taft High School Historic District include, but may not be limited to, those features described below. This list is a preliminary (rather than comprehensive) first step in the identification of the character-defining features of the campus and its individual contributors. The scope of work for the current evaluation does not include a room-by-room analysis of character-defining features or of a proposed project and potential impacts. Should a more detailed analysis of character-defining features be required once a proposed project has been designed, it is recommended that LAUSD request additional input and guidance from a historic preservation professional as needed.

Subsequent site inspections and removal of non-original alterations might reveal additional character-defining features. In order to retain the historic character and integrity of the buildings, efforts should be made to treat character-defining features in a manner consistent with the *LAUSD Design Guidelines and Treatment Approaches for Historic Schools* and the *Secretary of the Interior's Standards for the Treatment of Historic Properties*. It is further recommended that any subsequent in-fill in the campus core look to these overall character-defining features to ensure that any new construction is harmonious and compatible with the historic district.

Architectural & Ornamental Detailing

Throughout the campus, the use of a uniform palette of materials and detailing create a cohesive campus feel. In a reflection of the Mid-Century Modern architectural style of the campus, buildings display minimal or no ornament, relying on the use of program-driven, modular design composition, balanced asymmetry, and simply treated materials. These elements include an emphasis on the horizontal axis, flat roofs, rectangular forms, smooth wall surfaces, bands of windows, and modern building materials such as aluminum, glass, reinforced concrete, and porcelain panel curtain walls. Bands of multi-light, steel-framed windows mark the locations of classrooms and offices. Corridors are generally double loaded. The most prominent campus buildings (administration, classrooms, gymnasium, and multi-purpose buildings) exhibit more elaborate architectural detailing, such as porcelain panel curtain walls, while secondary buildings (industrial arts, utility, and restroom buildings) are more simple in character, but still contribute to the cohesive character of the campus.

Some of the most distinctive architectural and ornamental detailing include porcelain enamel-coated panels within aluminum framing, brick accents, and bands of aluminum-framed windows. The design emphasizes the horizontal axis through scale, mass, and the incorporation of bands of windows. The horizontality of the building is balanced through secondary elements such as brick end-walls and blade walls, and the aluminum framing supporting the panels provides a vertical detail. Additional character-defining features include extant original signage on the exterior of buildings, which is comprised of individual stainless steel letters mounted to the building façades. Each of these character-defining features is identified below in Figure 10.

Figure 10 Architectural & Ornamental Detailing

Strong rectilinear forms, elements, and massing using; modern materials such as aluminum, glass, and porcelain enamel coated panels	
Horizontal louvers	
Brick blade and end walls	

Original exterior metal building signs

Roof Form & Features

Roofs generally are flat with no overhangs. Enclosed breezeways between buildings and exterior covered corridors feature spider leg or other type of support posts holding up flat roofs. Porcelain-enamel panels are used to trim the fascia of exterior covered corridors and some entry porches. Figure 11 identifies the important Roof Form and Features of the Taft High School Historic District.

Figure 11 Roof Form & Features

Flat roofs with no overhang

Vertical and horizontal concrete beams, or “spider legs” used as cantilevered projects and to support covered breezeways	
Porcelain enamel-coated panels on fascia of entry porches and exterior covered corridors	

Façade Treatments

Building facades feature porcelain enamel-coated panels within aluminum framing, smooth concrete surfaces, and brick. Bricks are rectangular and typically laid in a running bond pattern. Also prominent on facades are bands of aluminum-framed, operable windows, and horizontal louvered sun shades on some elevations. Figure 12 identifies these elements.

Figure 12 Façade Treatments

Curtain wall composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows	
Brick end walls, blade walls, and accents	

Site Plan Design and Landscape Features

The site plan design and landscape features of the Taft High School Historic District are essential in its ability to convey its significance as a postwar high school plant following the principles of the well-established cluster plan and enclosed campus plan. Buildings are sited and connected via corridors to create interior courtyards, which are landscaped and feature built-in planters and other features. These principals are highly representative of LAUSD design ideals from this era and are identified below in Figure 13.

Figure 13 Site Plan Design

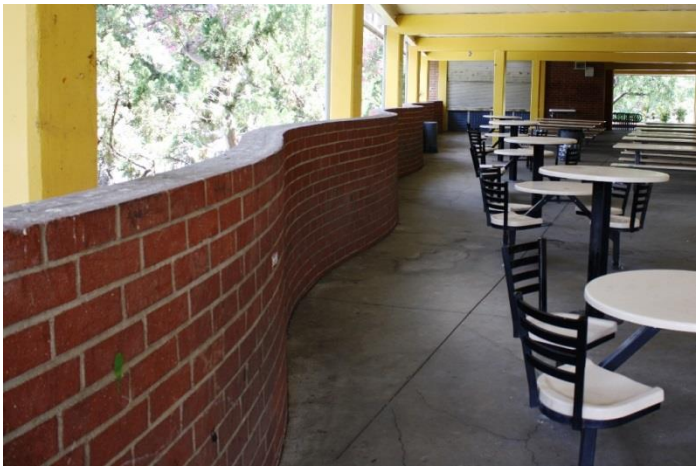
Landscaped courtyards between the primary campus buildings

Paved walkways traversing the courtyards

Exterior covered corridors

Enclosed hallways connecting buildings

built-in brick planters and walls



Undulating concrete block walls

Outdoor stage

Outdoor covered eating areas

Interior Spaces & Features

Per the *LAUSD Historic Context Statement* and *LAUSD Design Guidelines and Treatment Approaches for Historic Schools*, eligible schools may contain interior spaces that are character-defining. There are many interior spaces that help to define the historic significance of the Taft High School Historic District and the original design intent of Balch-Bryan-Perkins-Hutchason. These are typically areas that include design elements that are representative of its modern functionalist school design as well as those relating to its Mid-Century Modern architectural style. This includes design features such as vertical and horizontal concrete beams and walls, split-level enclosed hallways, central corridors flanked by classrooms, and indoor landscaping and planters. Other features include original staircases, metal railings, tilework, and linoleum flooring.

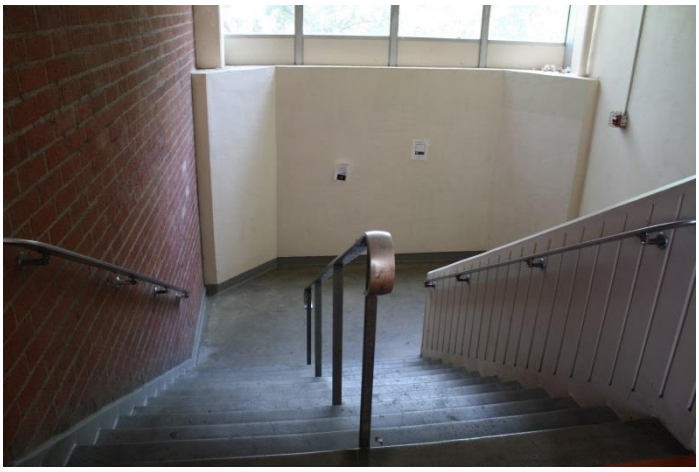
While the buildings are not individually eligible (i.e., their significance lies within their group value as a "district"), the interior spaces and features are provided in the following section as descriptors of the existing interior features for reference by the design team.

Figure 14 Interior Spaces & Features

Vertical and horizontal concrete beams and walls

Split-level enclosed hallways

Central corridors flanked by classrooms



Original Metal Railings

Original tilework

Original multicolored Linoleum flooring

8.2 Historic District Contributors & Character-Defining Features

This section presents an overview of the most prominent character-defining features and descriptors of the contributors to the Taft High School Historic District. Generally speaking, contributors exhibit few major alterations. Should information on additional character-defining features be needed, the project team should consult a qualified architectural historian or historic preservation professional.

Administrative Building

- Highly prominent location, with building set back from primary parking lot of Ventura Boulevard and Winnetka Avenue
- L-shaped building plan, connecting to Classroom Building A to southeast via hyphen
- Part of a unified, cohesive site design, with buildings (generally 1- to 2-stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways (Figure 15)
- Single-story massing and rectangular volume
- Flat roof, with extending brick blade walls, and porcelain enamel-coated panels on fascia of entry overhangs and cantilevered projections (Figure 16)
- Distinctive Mid-Century Modern architectural design, including horizontal design composition; lack of ornamentation, smooth wall surfaces, and bands of flush aluminum framed windows partially covered by louvers
- Exterior walls consisting of composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, and brick end walls, blade walls, and accents; and brushed metal signage (Figure 17)
- Entrances on main (north), south, and west elevations consisting of paired metal-framed doors surrounded by aluminum-framed transom windows, sidelights, and porcelain enamel panels, and capped by projecting entry overhangs with porcelain enamel-coated panels on the fascia (Figure 18)
- Interior descriptors: double-loaded hallways with brick walls and original patterned linoleum flooring; metal railings; tile backsplashes; perforated metal ceiling panels; built-in trophy cases; and murals (Figure 19)

Figure 15 Administrative Building, South and West Elevations

Figure 16 Administrative Building, Rear (South) Elevation

Figure 17 Administrative Building, Signage, South Elevation

Figure 18 Administrative Building, Main Entrance, North Elevation

Figure 19 Administrative Building, Interior Hallway

Classroom Building A

- Prominent location, with building facing Winnetka Avenue, set back by lawn and wide concrete pathways
- Rectangular building plan, directly connecting to hyphens of Administrative Building to the north and Classroom Building B to the south(Figure 20)
- Part of a unified, cohesive site design, with buildings (generally 1- to 2-stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways (Figure 21)
- Two-story massing and rectangular volume, stepping down to lower, narrower hyphen connectors of the Administrative Building to the north and Classroom Building B to the south
- Flat roof, with extending brick blade walls
- Distinctive Mid-Century Modern design elements, including horizontal design composition; lack of ornamentation, smooth wall surfaces, and bands of flush aluminum-framed windows partially covered by louvers (Figure 22)
- Exterior walls composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, and brick end walls, blade walls, and accents; and brushed metal signage
- Access via hyphen connectors of Administrative Building and Classroom Building B
- Interior descriptors: split-level interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers; stairways with metal railings and scored concrete and brick walls (Figure 23); interior wood and glass partitions in classrooms (Figure 24); and tile backsplashes of drinking fountains

Figure 20 Classroom Building A, West Elevation

Figure 21 Classroom Building A, West Elevation

Figure 22 Classroom Building A, West Elevation

Figure 23 Classroom Building A, Interior

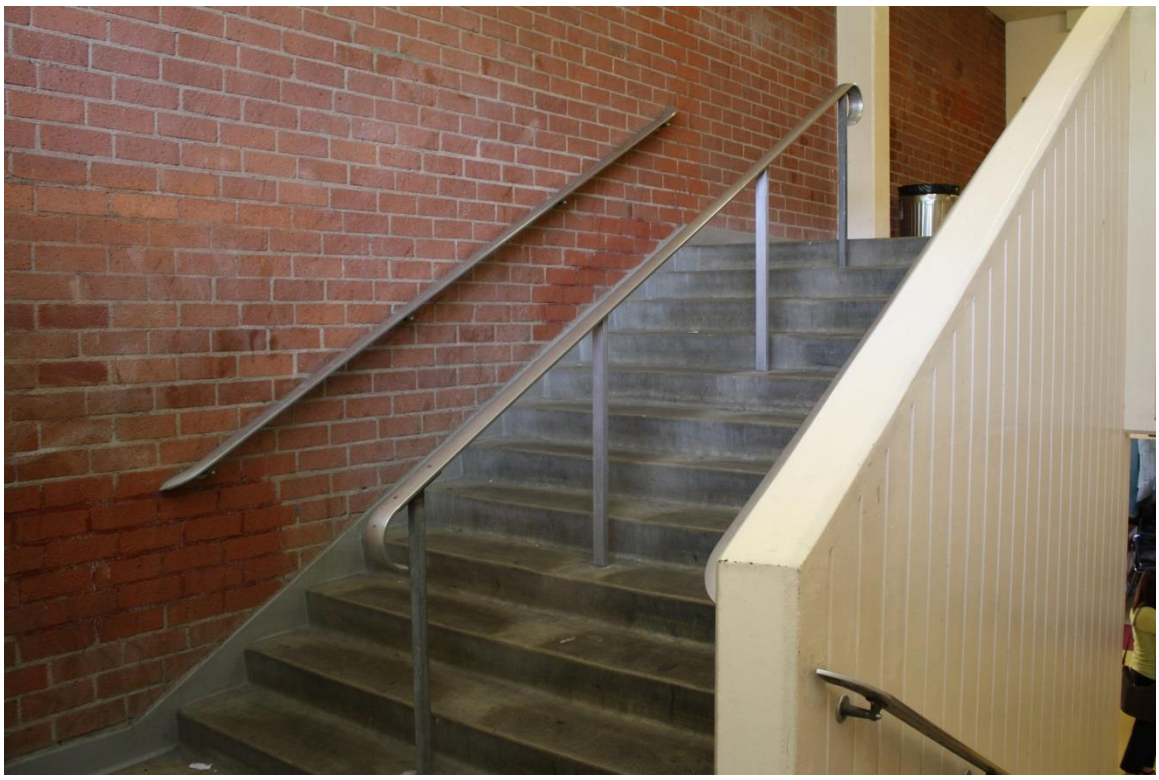


Figure 24 Classroom Building A, Interior

Classroom Building B

- Location at southern perimeter of main courtyard (Figure 25)
- Rectangular building plan, with narrow hyphen connecting to Classroom Building A to the north (Figure 26)
- Part of a unified, cohesive site design, with buildings (generally 1- to 2-stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways
- Two-story massing and rectangular volume, stepping down to lower, narrower hyphen connector to Classroom Building A to the north and of Classroom Building C to the west
- Flat roof, with extending brick blade walls, and stucco clad panels on fascia of hyphen connector to Classroom Building A
- Distinctive Mid-Century Modern design elements, including horizontal design composition; lack of ornamentation, smooth wall surfaces, and bands of flush aluminum framed windows partially covered by louvers on the south elevation
- Exterior walls composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, and brick end walls, blade walls, and accents; and brushed metal signage
- Access via paired metal doors underneath aluminum clad porcelain panels and windows at hyphen connecting to Classroom Building A to the north (Figure 27) and via hyphen of Classroom Building C to the west
- Interior descriptors: split-level interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers and brick walls (Figure 28); open atrium of hyphen with concrete spider legs, brick planters (Figure 29); and metal railings; stairways with metal railings and scored concrete and brick walls

Figure 25 Classroom Building B, North Elevation

Figure 26 Classroom Building B, West Elevation of Hyphen Connecting to Classroom Building A

Figure 27 Classroom Building B, Doors of East Elevation of Hyphen

Figure 28 Classroom Building B, Interior Hallway

Figure 29 Classroom Building B, Interior of Hyphen

Classroom Building C

- Location at southern end of building complex, connecting classrooms and Cafeteria/Assembly areas (Figure 30)
- Rectangular building plan, with narrow hyphen connecting to Classroom Building B to the west and raised, enclosed highway connecting Classroom Building D to the north (Figure 31)
- Part of a unified, cohesive site design, with buildings (generally 1- to 2-stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways
- Two-story massing and rectangular volume, stepping down to lower, narrower hyphen connector to Classroom Building B to the west
- Flat roof, with extending brick blade walls
- Distinctive Mid-Century Modern design elements, including horizontal design composition; lack of ornamentation, smooth wall surfaces, and bands of flush aluminum framed windows partially covered by louvers on the south elevation
- Exterior walls composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, and brick end walls, blade walls, and accents; and brushed metal signage
- Access via double metal doors topped by transom windows located at hyphen at east end of building (Figure 32)
- Interior descriptors: split-level interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers and brick walls; enclosed hallway with brick walls and large picture windows (Figure 33); tilework band metal railings; stairways with metal railings and scored concrete and brick walls (Figure 34); tile backsplashes of drinking fountains

Figure 30 Classroom Building C, North Elevation

Figure 31 Classroom Building C, Enclosed, Raised Hallway

Figure 32 Classroom Building C, Access at Hyphen at East End of Building

Figure 33 Classroom Building C, Enclosed Interior Hallyway Connecting to Classroom Building D

Figure 34 Classroom Building C, Interior Staircase

Classroom Building D

- Location at western perimeter of main courtyard (Figure 35)
- Rectangular building plan, directly connecting to Classroom Building C via raised, enclosed hallways (Figure 36)
- Part of a unified, cohesive site design, with buildings (generally 1- to 2-stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways
- Two-and-one-half-story massing and rectangular volume, stepping down slightly to raised enclosed hallway to south
- Flat roof, with extending brick blade walls
- Distinctive Mid-Century Modern design elements, including horizontal design composition; lack of ornamentation, smooth wall surfaces, and bands of flush aluminum framed windows partially covered by louvers
- Exterior walls composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, and brick end walls, blade walls, and accents; and brushed metal signage
- Access from the south via enclosed, raised hallway from Classroom Building C and exterior double, metal doors to capped by transom windows below (Figure 37), and from the north via concrete stairs leading to paired, double metal doors also capped by transom windows (Figure 38)
- Interior descriptors: split-level interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers; stairways with metal railings and scored concrete and brick walls; interior wood and glass partitions in classrooms; and tile backsplashes of drinking fountains (Figure 39)

Figure 35 Classroom Building D, East Elevation

Figure 36 Classroom Building D, South and West Elevations

Figure 37 Classroom Building D, South Entrances, West and South Elevations

Figure 38 Classroom Building D, North Entrance, West and South Elevations

Figure 39 Classroom Building D, Interior

Multi-Purpose Building & Lunch Pavilion

- Location at western end of interconnected building complex
- Irregular L-shaped building plan, with extending roofline creating open air, covered lunch pavilion and connecting to Student Store Building to the northwest (Figure 40)
- Part of a unified, cohesive site design, with buildings (generally 1- to 2-stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways, and curvilinear brick perimeter wall (Figure 41)
- Varied massing, with a central, tall one story volumes of Multi-Purpose Building flanked by lower roof of Lunch Pavilion
- Flat roof, with varying levels and porcelain enamel coated panels on fascia of Lunch Pavilion roofline; concrete posts and beams supports that are also used to create a trellis like feature at connection to Classroom Building C (Figure 42)
- Distinctive Mid-Century Modern design elements, including symmetrical design composition; limited ornamentation; square, concrete post and beam roof supports; and use of decorative metal panels to create permanent and sliding walls
- Exterior walls clad primarily in brick and smooth stucco, with brushed metal signage and also limited tile work
- Lack of window openings with the exception of aluminum framed transom and sidelight windows at food service area
- Simple entrances consisting of double and single metal doors, with utilitarian design (Figure 43)
- Interior descriptors: open, multi-purpose room with stage framed by stacked-bond brick and scored detailing above; and brick walls in hallway (Figure 44)

Figure 40 Multi-Purpose Building and Lunch Pavilion (on left), South Elevation

Figure 41 Lunch Pavilion, North Permiter Wall

Figure 42 Lunch Pavilion, Roof Features

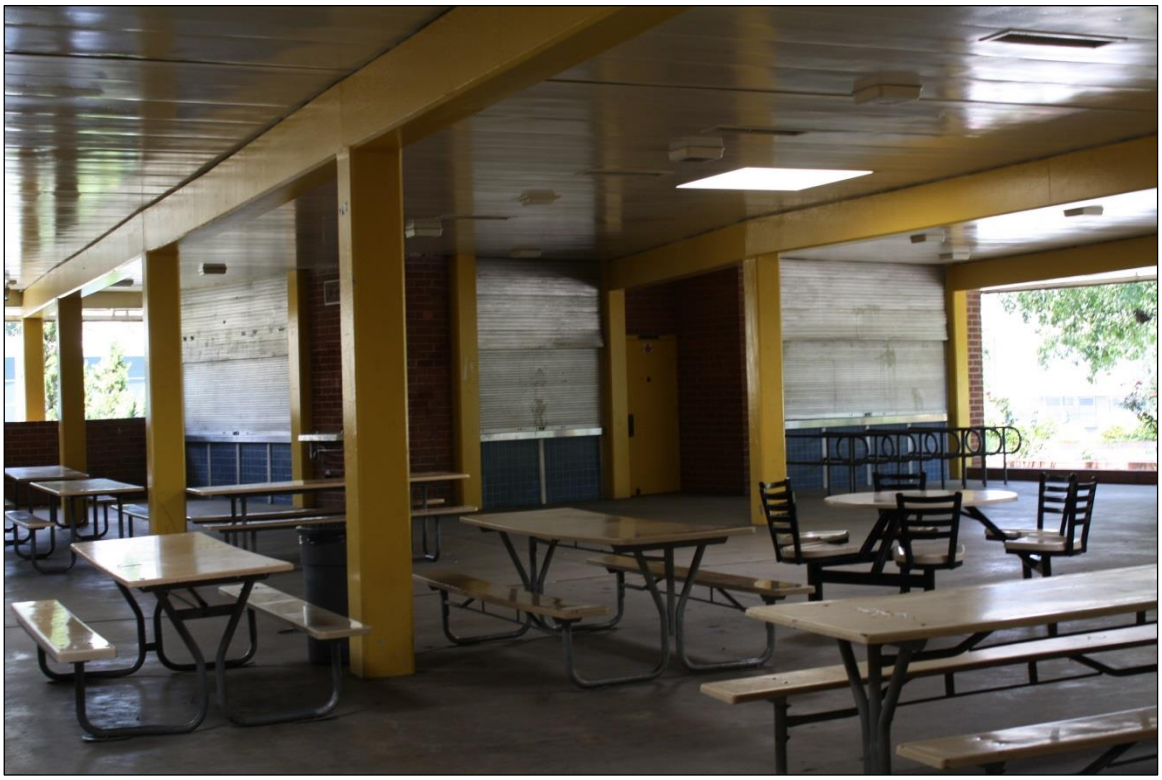
Figure 43 Multi-Purpose Building, Entrance, East Elevation

Figure 44 Multi-Purpose Building, Interior

Student Store Building

- Part of larger cafeteria complex; shares roofline with Multi-Purpose/Lunch Pavilion, to the west
- Roughly rectangular in plan, one-story in height; flat roof, with prominent, broad overhanging eaves, clad in porcelain enamel-coated panels
- Part of a unified, cohesive site design, with buildings (generally 1- to 2-stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways
- Features a number of the same character-defining features, design elements, and materials seen throughout campus, including brick walls, concrete post supports, prominent flat roof with wide overhanging eaves
- Primary south and west elevations displays roll-up window and tile work consisting of small, square blue tiles framed on either end by concrete post supports
- Entrance consists of single metal-framed doors, centrally located between roll up windows on south elevation

Figure 45 Student Store Building, South and West Elevations



Contributing Landscape

- Highly prominent location at center of Administrative and Classroom buildings (Figure)
- Large, open central courtyard with wide circulation corridors sloping uphill to the west (Figure)
- Outdoor stairways bordered by brick or concrete-block walls (Figure)
- Landscaping consisting grass lawns, mature trees, and shrubs
- Hardscaping consisting of paved walkways and open areas to the north and south of central courtyard
- Brick planters (Figure)
- Outdoor stage with concrete-block features (Figure)
- Secondary location between Multi-Purpose Building and Classroom Buildings C and D
- Large, open area sloping slightly uphill to the west (Figure)
- Landscaping consisting of mature trees, shrubs, and minimal grass lawn west of Classroom Building D
- Landscaping consisting grass lawns, mature trees, and shrubs
- Hardscaping consisting of large paved areas and steps leading up to Multi-Purpose Building (Figure)
- Brick planters of various heights (Figure)

Figure 46 Highly prominent central courtyard

Figure 47 Open Circulation Corridors with Landscaping and Hardscaping Features

Figure 48 Concrete-Block Wall Bordering Outdoor Stairs

Figure 49 Brick Planters

Figure 46 Outdoor Stage

Figure 47 Open Outdoor Areas North of Classroom Building C

Figure 52 Brick Planters Leading to Multi-Purpose Building

Figure 53 Brick Planters

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Appendix A

Resource Records

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION **PRIMARY RECORD**	Primary # HRI # Trinomial **NRHP Status Code** 3D; 3CD; 5D2
Other Listings Review Code	Reviewer / Date

 ***Resource Name or #:** William H. Taft High School Historic District

P1. Other Identifier: Taft Charter High School

***P2. Location:** ☐ **Not for Publication** ☒**Unrestricted** ***a. County:** Los Angeles County

***b. USGS 7.5' Quad:** Canoga Park Quadrangle **Date:** 1952 (rev. 1967) **T** 1N; **R** 16W; **¼ of ¼ of Sec;** S.B. **B.M.**

c. Address: 5461 Winnetka Avenue City: Woodland Hills Zip: 91364

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation: APN: 2166-042-902

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Located between a major commercial corridor and a residential neighborhood, the William H Taft High School Historic District occupies a nearly 30-acre, irregularly shaped parcel, bound by Ventura Boulevard to the north, Winnetka Avenue to the east, Santa Rita Street to the south, and Del Moreno Drive to the west. Originally developed in 1960, the site plan clusters the main school buildings (administration, four classroom buildings, and multi-purpose hall) around landscaped courtyards. Additional buildings are situated at the perimeters of the athletic fields. The campus' architectural style can be categorized as Mid-Century Modern, characterized by: flat roofs, strong horizontal elements, lack of exterior ornamentation, smooth wall surfaces such as concrete and curtain walls composed of porcelain enamel-coated panels within aluminum framing, flush-mounted bands of aluminum-framed windows, and "spider leg" support posts. Covered outdoor walkways link many of the buildings to one another, while the administration and four original classroom buildings are connected by enclosed breezeways that harmonize with the buildings' architectural design (see Continuation Sheet).

***P3b. Resource Attributes:** (List attributes and codes) HP15. Educational Building

***P4. Resources Present:** ☐Building ☐Structure ☐Object ☐Site ☒District ☐Element of District ☐Other (Isolates, etc.)

P5b. Description of Photo: East elevation of Classroom Building D, and outdoor stage, July 13, 2017.

***P6. Date Constructed/Age and Sources:** ☒Historic ☐Prehistoric ☐Both
1960 (Los Angeles Unified School District)

***P7. Owner and Address:**
Los Angeles Unified School District

***P8. Recorded by:**
S. Treffers and S. Zamudio-Gurrola
Rincon Consultants, Inc.
180 N. Ashwood Avenue
Ventura, CA 93003

***P9. Date Recorded:** 10/25/2017

***P10. Survey Type:** Intensive

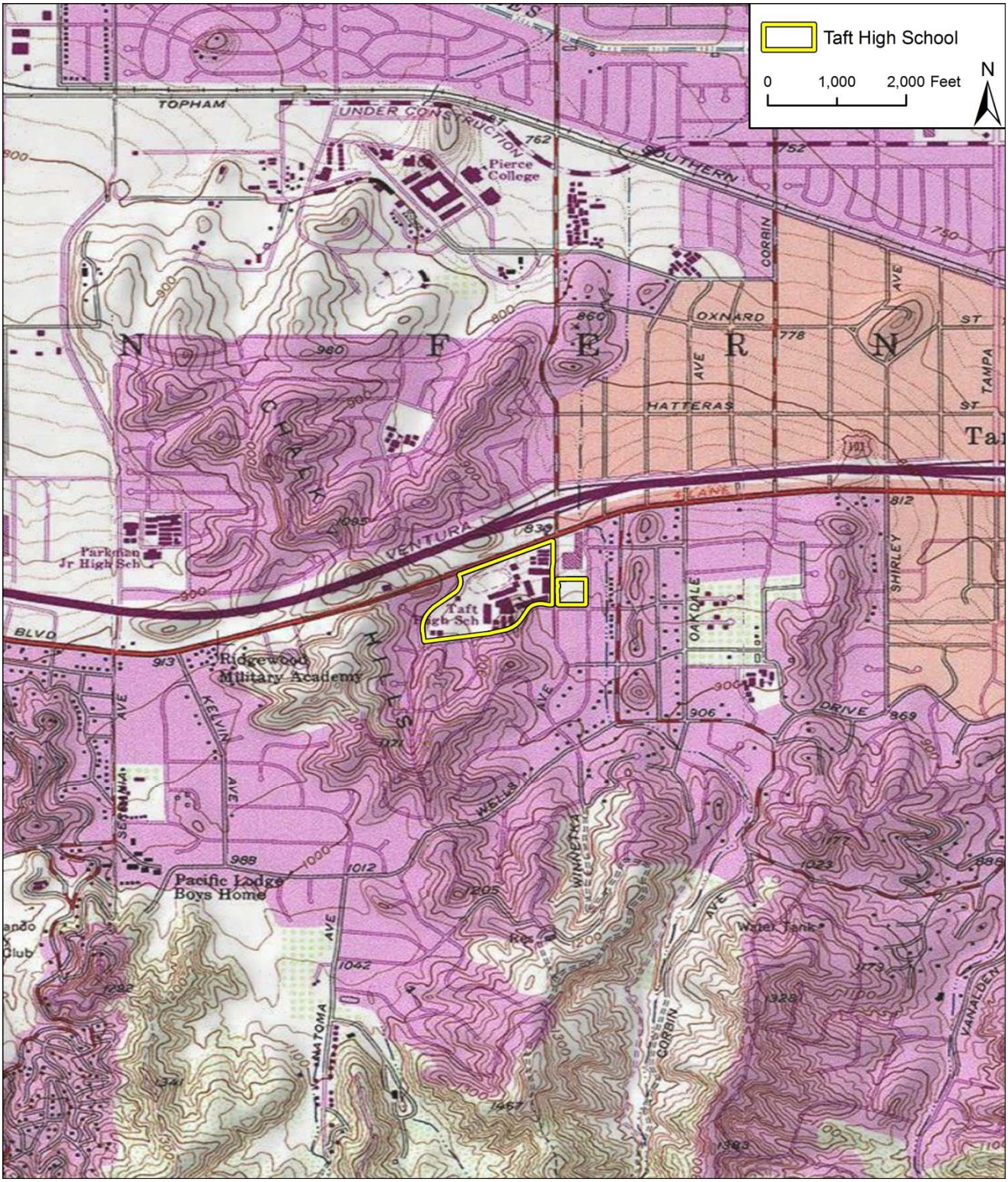
***P11. Report Citation:** Taylor, Christian and Rincon Consultants, Inc. 2018. *William H. Taft High School: Historical Resources Evaluation Report*. Report on file at the Los Angeles Unified School District, Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Floor, Los Angeles, California 90017.

***Attachments:** ☐NONE ☒Location Map ☐Sketch Map ☒Continuation Sheet ☒Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California ◆ Natural Resources Agency DEPARTMENT OF PARKS AND RECREATION **LOCATION MAP**	Primary # HRI# Trinomial

Page 2 **of** 7 ***Resource Name or #** William H. Taft High School Historic District

***Map Name:** USGS *Canoga Park* Quadrangle ***Scale:** 1:24,000 ***Date of Map:** 1952 (photorevised 1967)



BUILDING, STRUCTURE, AND OBJECT RECORD

***NRHP Status Code** 3D; 3CD; 5D2

***Resource Name or #** (Assigned by recorder) William H. Taft High School Historic District

B1. Historic Name: William H. Taft High School
B2. Common Name: Taft Charter High School
B3. Original Use: Institutional (Educational Facility) B4. Present Use: Institutional (Educational Facility)
***B5. Architectural Style:** Mid-Century Modern
***B6. Construction History:** (Construction date, alterations, and date of alterations)

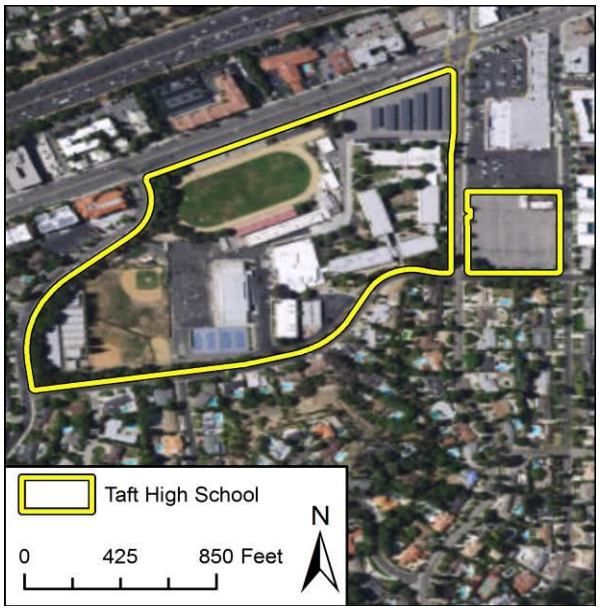
The campus' construction was completed in 1960 by general contractors R.J. Daum Construction Co. and M.J. Brock & Sons. Designed by the firm of Balch-Bryan-Perkins-Hutchason, it originally included 18 buildings, of which 16 remain extant. An additional set of bleachers was constructed around the football field in approximately 1963. Six additional permanent buildings were added to the campus in the mid-1960s: two classroom buildings and an announcer's booth in 1964, two storage buildings in 1965 and 1966, and a classroom building in 1967. The large classroom building constructed in 1967 replaced a smaller building that had previously existed at the southcentral edge of the site, and allowed the school to remove two portable/temporary classroom buildings that had been located next to the tennis courts. In 1968 repair work (primarily in the interior of the building) was completed on a portion of the Administration Building due to fire damage in the attendance and principal's offices. Two small buildings that once existed at the southwestern edge of the site were removed; today that area is mostly occupied by portable/temporary buildings, including a restroom and five classroom buildings with original construction dates from the 1950s that were added to the campus between 1980-1989, and five modular buildings were also added to the southwestern edge of the campus in 2001 (EDR, var.; LAUSD, var.; *Los Angeles Times* 1959, 1961).

A number of alterations and repairs have taken place over the years, including: the removal of some windows and exterior cladding panels to accommodate the installation of air-conditioning units, the installation of metal security screens over windows, the construction of ramps for wheelchair accessibility, construction of concrete planters, the installation of a wheelchair lift in one of the breezeways.

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** **Original Location:**
***B8. Related Features:** Landscape features include fixed brick planters, walls and piers; decorative concrete block walls
B9a. Architect: Balch-Bryan-Perkins-Hutchason b. Builder: R.J. Daum Construction Co.; M.J. Brock & Sons
***B10. Significance: Theme:** Mid-Century Modern architecture; Cluster Plan School **Area:** San Fernando Valley
Period of Significance: 1960 (District) **Property Type:** Institutional (Educational Facility) **Applicable Criteria:** C/3/3

The William H. Taft High School campus appears eligible for federal, state and local designation as a historic district under Criteria C/3/3. The campus is an intact example of a modified cluster plan, which is characteristic of school planning principles of the time and is also as an outstanding embodiment of Mid-Century Modern architecture as applied to an institutional/educational facility. The campus exhibits quality of design through the distinctive features of both its site plan and the design of its individual buildings. The core school buildings are sited in a cluster around shared courtyards, which are landscaped with fixed brick planters, rectilinear paths, grass lawns, and mature trees. Individual buildings feature flat roofs, unadorned reinforced concrete and masonry construction, strong horizontal elements, smooth wall surfaces such as concrete, and curtains walls composed of porcelain-enamel coated panels within aluminum framing, flush-mounted bands of aluminum-framed windows, and exterior covered corridors. Enclosed breezeways with similar design elements connect various buildings.

B11. Additional Resource Attributes: None
***B12. References:** See Continuation Sheet
B13. Remarks: None
***B14. Evaluator:** C. Taylor, S. Treffers, and S. Zamudio-Gurrola
***Date of Evaluation:** September 2018



(This space reserved for official comments.)

***P3a. Description (Continued):**

The campus plan is laid out in a modified cluster plan: the original administration, multi-purpose, and four classroom buildings are situated around landscaped courtyards and clustered in the eastern portion of the campus. Additional buildings are situated at the perimeters of the athletic fields. Covered outdoor walkways link many of the buildings to one another, while the administration and four original classroom buildings are connected by enclosed breezeways that harmonize with the buildings' architectural design. The original, core campus buildings share common design elements, including: rectangular plans, flat roofs, strong horizontal elements, reinforced concrete and masonry construction, curtain walls composed of porcelain enamel-coated panels within aluminum framing, bands of aluminum-framed windows flush with the wall surfaces, "spider leg" support posts, and fascia trimmed with porcelain enamel-coated panels.

The flat-roofed classroom buildings, both two and three stories in height, are reinforced concrete construction. They feature curtain walls composed of porcelain enamel-coated panels an aluminum framing system; and also feature brick end-walls and blade walls. Bands of flush-mounted aluminum-framed windows containing three-part awning windows, as well as single awning windows, span across the elevations. In general, the buildings display minimal ornamentation; however, horizontal louvered sun shades cover bands of windows on select elevations. The breezeways between buildings similarly feature aluminum framing containing rectangular panels and glazing. Entryways include single and paired solid doors.

The administration building, constructed of reinforced concrete and masonry, shares design elements with the classroom buildings: its exterior features brick in a running bond, as well as porcelain enamel-coated panels within aluminum framing; bands of aluminum-framed windows; horizontal louvered sun shades; and solid, paired door entrances. Its eastern elevation, which faces Winnetka Avenue, features brick blades walls forming a sawtooth pattern.

Taft Hall, a large multi-purpose building at the center of campus, is also constructed of reinforced concrete and masonry. Prominent features of its exterior are large expanses of brick in a running bond, and a flat-roofed patio that wraps around three of its elevations. The patio is supported by spider-leg concrete supports; between some of the vertical supports on the south elevation are large, decorative concrete panels. The patio shelters the cafeteria space and creates a covered, outdoor seating area.

The gymnasium building, which has irregular massing and a three-level stepped roofline, is also of reinforced concrete construction. Its exterior similarly features brick in a running bond. Its primary façade mirrors the classroom buildings through the use of brick blade walls, and aluminum framing supporting glazing and porcelain enamel-coated panels. Fenestration consists of bands of aluminum-framed windows, and single and paired solid entry doors.

Located slightly west of the core classroom and administration area, around the perimeter of the football field, additional buildings provide for a variety of facilities such as a weight room, administrative and student support space, storage, an operational/utility building, restrooms, and an announcer's booth. Most of these buildings are original to the development of the campus (the exceptions being the announcer's booth and two storage buildings that were built between 1964-1966).

Outside the campus core, near the southern edge of the property, three additional classroom buildings were constructed between 1964-1967. These two-story, wood-framed buildings are clad with rough stucco and feature elements such as covered entry porches, overhanging eaves, more moderate use of fenestration, aluminum casement and sliding windows, wood-framed double-hung windows, vertical bris soleil, and exterior steel staircases. A grouping of small buildings at the southwestern edge of the property, mostly impermanent/portable, provides additional classrooms and restrooms.

The campus grounds include several well-defined courtyard spaces between the original administration and classroom buildings which feature grass lawns, mature trees and shrubs, paved walkways, original brick planters, sitting areas, new concrete planters, and contemporary tables and benches. Additionally, brick walls and fence pillars on the campus help unify the outdoor hardscaping with the buildings' architectural design. Within one of the courtyards is an outdoor stage consisting of a raised concrete platform, flanked by brick planters. Patterned concrete block walls define the backdrop and wings of the stage. A football field and running track flanked by wooden bleachers are located along the northern edge of the campus, adjacent to Ventura Boulevard. The bleachers appear to be original to the campus's original development, according to LAUSD records. Additionally, retaining walls on the northern side of the running track and brick planters flanking the staircases are also original. Providing direct access to the football field, a paved parking lot with solar energy shade canopies is located at the campus's northeast corner. Baseball fields, and basketball, volleyball and tennis courts are situated near the center of the campus, west of the gymnasium. The majority of the campus perimeter is secured with a chain link fence.

*Recorded by: S. Treffers and S. Zamudio-Gurrola *Date: July 17, 2017 ☒ Continuation ☐ Update

North façade of Administration Building, view looking southeast. Source: Rincon Consultants, 13 July 2017.

Eastern entrance to Lunch Pavilion, view looking northwest. Source: Rincon Consultants, 13 July 2017.

*Recorded by: S. Treffers and S. Zamudio-Gurrola *Date: July 17, 2017 ☒ Continuation ☐ Update

Courtyard and stage between Classroom Buildings A and D, view looking south. Source: Rincon Consultants, 13 July 2017.

Breezeway between Classroom Buildings A and B, view looking southwest. Source: Rincon Consultants, 13 July 2017.

*Recorded by: S. Treffers and S. Zamudio-Gurrola *Date: July 17, 2017 ☒ Continuation ☐ Update

***B12. References (Continued):**

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Appendix D

Historic Resources Technical Report

HISTORIC RESOURCES TECHNICAL REPORT

FOR THE

TAFT CHARTER HIGH SCHOOL
COMPREHENSIVE MODERNIZATION PROJECT

CITY OF LOS ANGELES

LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

Los Angeles Unified School District
Office of Environmental Health and Safety
333 S. Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Prepared by:

Wood Environment & Infrastructure Solutions, Inc.
Jay Carlander, Architectural Historian
104 W. Anapamu Street, Suite 204A
Santa Barbara, California 93101

December 2019

BACKGROUND

The following Historical Resources Technical Report has been prepared for William Howard Taft Charter High School (Taft Charter High School), located at 5461 Winnetka Avenue within the Woodland Hills neighborhood of Los Angeles, California, 91364. The school boundary includes two discontinuous parcels on opposite sides of Winnetka Avenue totaling 32.4 acres. The larger 29.81-acre parcel to the west of Winnetka Avenue (Assessor Parcel Number [APN] 2166-042-902) includes the main campus of Taft Charter High School (Campus); the smaller 2.59-acre parcel to the east (APN 2166-034-900) includes a surface parking lot and two portable buildings serving the Thoreau Continuation High School.

Initial construction of Taft Charter High School began in 1958 and the Campus was opened in 1960. The original facilities included the Multi-Purpose Building (Building 1), Gymnasium (Building 2), four classrooms (Buildings 6, 18, 19, and 20), two Industrial Arts Buildings (Buildings 9 and 10), Administrative Building (Building 21), and Agricultural Building (Building 24) as well as a lunch pavilion, running track, football field, outdoor stage, and assembly area. Near the southcentral edge of the Campus, three additional classroom buildings (Buildings 3, 4, and 5) were constructed between 1964 and 1967. Today, the southwestern area of the Campus is occupied by portable/temporary buildings, including a restroom (Building 28) and five classrooms (Buildings 29, 30, 31, 32, and 33) that were added to the Campus between 1980 and 1989 as well as five modular buildings (Buildings 34, 35, 36, 37, and 38) that were also added to the southwestern edge of the Campus in 2001. Until recently, these portable and modular buildings were occupied by Ivy Academia Charter School.

As part of the School Upgrade Program (SUP), the Los Angeles Unified School District (LAUSD) is proposing to implement a comprehensive modernization project at Taft Charter High School (Project). A Campus-wide survey of Taft Charter High School found existing structures and mechanical systems to be outdated, requiring rehabilitation or modernization to meet current needs. The purpose of the Project is to provide facilities that are safe, secure, and aligned with the instructional program of Taft Charter High School. The Project is designed to address the most critical physical concerns of the buildings and grounds at the Campus while providing renovations and modernizations that are consistent with the Comprehensive Modernization Project Definitions.

HISTORIC SETTING

Since the mid-1990s, Taft Charter High School has been the subject of multiple historical resource evaluations, including:

- *Northridge Earthquake Historical Resources Surveys, Post-1994:* These surveys were conducted for the Federal Emergency Management Agency in support of compliance with Section 106 of the National Historic Preservation Act and recorded 71 LAUSD campuses.
- *Phase 1 and Phase 2 Getty Surveys, 2001-2004:* These surveys were conducted in two multi-year phases between 2001 and 2004 and expanded on the post-Northridge Earthquake surveys, covering approximately 410 LAUSD campuses.
- *SurveyLA, 2013:* A multi-year, citywide historical resources survey that is currently being finalized by the Los Angeles Office of Historic Resources.
- *LAUSD Historical Resources Survey, 2014:* This historic resource survey included 55 LAUSD campuses, which at the time of survey were over 45 years of age. Of these, 14 were found eligible for National Register of Historic Places (NRHP) and/or California Register of Historic Resources (CRHR) listing.
- *LAUSD Historical Resources Evaluation Report (HRER), 2018:* This survey was prepared for Taft Charter High School to inform future planning efforts and to facilitate compliance with LAUSD's cultural resource policies and the California Environmental Quality Act (CEQA).

Both the *2013 SurveyLA* report and the *2018 HRER* concluded that the Taft Charter High School campus meets federal, state, and local significance criteria for listing as a historic district. The *2018 HRER* concluded the following seven buildings, lunch pavilion, and associated landscape spaces contribute to the character-defining features the historic district according to U.S. Department of the Interior, National Park Service criteria:

- Multi-Purpose Building (Building 1)
- Classroom Building C (Building 6)
- Student Store Building (Building 7)
- Classroom Building D (Building 18)
- Classroom Building B (Building 19)
- Classroom Building A (Building 20)
- Administrative Building (Building 21)
- Lunch Pavilion (attached to Multi-Purpose Building)

These buildings, which were all designed by the architecture firm of Balch-Bryan-Perkins-Hutcheson and originally constructed in 1960, reflect the development of "Postwar Modern, Functionalist School Plant" in the 1945 to 1969 era of LAUSD history, as well as the influential aesthetics of post-war and mid-century modernism in Los Angeles institutional architecture in the 1945 to 1976 era (LAUSD 2018a). The *2018 HRER* determined that the Taft Charter High School is eligible for listing in the NRHP, CRHR, and local designation as a historic district under Criteria C/3/3 as an outstanding example of Mid-Century Modern architectural design in the post-World War II era in Los Angeles.

Wood Environment & Infrastructure Solutions, Inc. (Wood) Architectural Historian Jay Carlander, PhD, peer reviewed the *2018 HRER* to evaluate the technical sufficiency of its methodologies and findings (Carlander 2019). Dr. Carlander agreed that the *2018 HRER* comprehensively assessed the significance and eligibility of the campus by drawing upon local evaluation frameworks for historic resource assessments as well as the applicable federal, state, and local designation criteria, including:

- The LAUSD Historic Context Statement, 1870-1969;
- The recent SurveyLA in the final stages of completion by the Los Angeles Office of Historic Resources;
- The NRHP significance criteria;
- The CRHR significance criteria;
- The Los Angeles Historic-Cultural Monuments criteria;
- The eligibility standards, character-defining features, and integrity considerations for all of the above criteria; and
- The NRHP Multiple Property Documentation format that guided the frameworks for historic resource assessments in both the LAUSD Historic Context Statement and SurveyLA.

Dr. Carlander concurred with the conclusion that the Campus is an outstanding example of Mid-Century Modern architecture and is eligible under federal, state, and local eligibility criteria to be registered as a historic district in Los Angeles. Therefore, a "substantial adverse change" in the integrity of this historic district or its contributing elements at Taft Charter High School would constitute "a significant effect on the environment" (Public Resources Code [PRC] §21084.1). CEQA Guideline 15064.5(b)(2)(C) states:

> "the significance of a historical resource is materially impaired when a project 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 the purposes of CEQA."

This Historical Resources Technical Report evaluates the potential impacts of the proposed comprehensive modernization on the character-defining features of the Taft High School Historic District and its contributing elements and provides recommended mitigations from the *Standard Conditions (SCs) of Approval for District Construction, Upgrade, and Improvement Projects* (LAUSD 2018b) to ensure that significant adverse impacts to the historic significance of Taft Charter High School are avoided.

PROJECT DESCRIPTION

The comprehensive modernization at Taft Charter High School includes: 1) demolition of various buildings; 2) new construction; and 3) modernization ranging from minor interior/exterior improvements to major seismic retrofits pursuant to Assembly Bill (AB) 300. The Project also involves various Campus-wide improvements such as utilities upgrades, stormwater improvements, and hardscape/landscape improvements to comply with federal, state, and local facilities requirements.

Table 1 summarizes the planned demolition, construction, and major modernizations at the Campus.

Table 1
Project Components
(Demolition, New Construction, and Remodel/Modernization)

Building No.	CAFM No.	Building Name	Year Built	Proposed Impact
1	21405	Multi-Purpose Building	1960	Major Remodel/Modernization
8	20417	Sanitary Building #1	1960	Demolition
9	21943	Industrial Arts #2	1960	Demolition
10	20726	Industrial Arts #1	1960	Major Remodel/Modernization
11	38539	Athletic Equipment Storage Unit	1966	Demolition
12	37504	Audio Visual Building	1960	Demolition
13	22551	Storage Unit #1	1965	Demolition
14	25767	Sanitary Building #2	1960	Demolition
16	23012	Storage Unit #2	1960	Demolition
21	28982	Administrative Building	1960	Remodel/Modernization
24	20558	Agriculture Building	1960	Demolition
28	21252	Sanitary Relocatable Unit	Post-1981	Demolition
29-33	see notes below †	Two/Three Unit Relocatable	Post-1981	Demolition
34-38	see notes below †	Double Unit Modular	2001	Demolition
39	38538	Ticket Booth #1	No Date	Demolition
41	38542	Concessions #1	No Date	Demolition
-	-	Administration Addition	-	New Construction
-	-	Building X	-	New Construction
-	-	Building Y	-	New Construction
-	-	Electrical Service Yard	-	New Construction

Note: †The former Ivy Academia Charter School – which relocated in 2019 – occupied the following portables: Building 24 (CAFM No. 20558), Building 28 (CAFM No. 21252), Building 29 (CAFM No. 23034), Building 30 (CAFM No. 21490), Building 31 (CAFM No. 20786), Building 32 (CAFM No. 21990), Building 33 (CAFM No. 21265), Building 34 (CAFM No. 28836), Building 35 (CAFM No. 28837), Building 36 (CAFM No. 28838), Building 37 (CAFM No. 28839), and Building 38 (28840).

DEMOLITION

The proposed comprehensive modernization would include demolition and removal of 9 permanent buildings as well as the 12 buildings/portables containing classrooms and support spaces for Ivy Academia Charter School, which was recently relocated from Taft Charter High School to an off-site location. The demolition and removal of existing buildings/portables would be required to facilitate the expanded track and field as well as the new softball field. The following buildings would be demolished or removed:

- Sanitary Building #1 (Building 8)
- Industrial Arts Building #2 (Building 9)
- Athletic Equipment Storage Unit (Building 11)
- Audio Visual Building (Building 12)
- Storage Unit #1 (Building 13)
- Sanitary Building #2 (Building 14)
- Storage Unit #2 (Building 16)
- Ticket Booth #1 (Building 39)
- Concessions #1 (Building 41)
- Ivy Academia Charter School Buildings (Building 24 and Buildings 28-38)
- Existing transformer and various Campus-wide underground utilities proposed for upgrades

NEW CONSTRUCTION AND RENOVATIONS

New construction at Taft Charter High School would include replacement of the existing restrooms, ticket booth, concessions, and other buildings/facilities that would be demolished in support of the expanded track and field as well as the new softball field. Additionally, new construction would include a 4,100 square foot Administrative Addition, new electrical services yard, and improvements to the maintenance and operation yard.

MODERNIZATIONS AND RENOVATIONS

All or parts of the following buildings would receive major modernization, including seismic retrofit pursuant to AB 300 and low voltage upgrades to support current technology:

- Multi-Purpose Building (Building 1) – Only the Multi-Purpose Room and supporting spaces would receive full modernization; the remainder of the building would not require reconfiguration.

- Industrial Arts #1 (Building 10) – Including removal of equipment and capping of utilities in the unused Boiler Room below grade.

- Administrative Building (Building 21) – Including full modernization of the administrative and drama areas. Upgrades to the Administrative Building (Building 21) would also include interior plumbing replacements (i.e., restrooms, water fountains, sinks, etc.).

The following buildings would receive interior/exterior improvements or light modernizations:

- Gymnasium Building (Building 2) – Provide accessible restrooms, showers, and lockers consistent with the requirements of the Americans with Disabilities Act of 1990 (ADA).

- Classroom Building G (Building 3) – Provide ADA improvements including accessible restrooms, signage, classroom sinks, drinking fountains, ramp at north entry, and an assistive listening system. Provide new elevator with enclosure, canopy, and bridge connection(s) to floor levels/other buildings, as required.

- Classroom Building F (Building 4) – Provide ADA improvements including accessible classroom sinks, drinking fountains, ramp at north entry, connection to the Classroom Building G (Building 3) elevator, and assistive listening system.

- Classroom Building E (Building 5) – Provide ADA accessible lab and classroom sinks, drinking fountains, ramp at north entry, connection to Classroom Building G (Building 3) elevator and assistive listening system.

- Classroom Building C (Building 6) – Provide ADA accessible restrooms, signage, classroom sinks, drinking fountains, covered exterior connection to Classroom Building D (Building 18) elevator, and assistive listening system.

- Announcers Booth (Building 15) – Ticket Booth (Building #40), Concessions #2 (Building 42) – Provide ADA accessible paths to each facility, as necessary.

- Classroom Building D (Building 18) – Provide ADA accessible restrooms, signage, classroom sinks, drinking fountains, and assistive listening system. For floor level's accessibility provide new elevator with enclosure, canopy and bridge connection(s) to floor levels and Classroom Building C (Building 6), as required.

- Classroom Building B (Building 19) – Provide ADA accessible restrooms, signage, classroom sinks, drinking fountains, and assistive listening system.

- Classroom Building A (Building 20) – Provide ADA accessible restrooms, signage, classroom sinks, drinking fountains, assistive listening system. For floor levels accessibility provide a new elevator with enclosure, canopy and bridge connection(s) to floor levels, as required.

- Additionally, internal upgrades to restrooms, sewer, water, gas, and possibly fire and water in all 2-story classroom buildings would be completed.

The exterior of all existing buildings on Campus would be painted or cleaned, as appropriate, to provide a uniform appearance and enhanced curb appeal. Existing classrooms not being modernized would also receive minor interior improvements to help promote teaching and learning.

The following athletic facilities would also receive minor upgrades:

- Existing Baseball Field – Fill in any depressions in the outfield and/or infield that exhibit obvious water ponding. Repair any irrigation that serves the baseball field efficiently and prepare for re-seeding with appropriate soil additives.

INFRASTRUCTURE UPGRADES

Infrastructure upgrades would include improvements to and/or replacement of existing utilities, site furnishings and bleacher structures, paving and parking arrangements, and adjustments to the athletic facilities on campus. This would include stadium lighting for bleacher safety and facility departure, investigation of existing stadium

lighting following the proposed expansion of the track and field, potential adjustments or addition of new light poles to provide adequate coverage, and potential installation of lighting for the new softball field.

UPDATES FOR REGULATORY COMPLIANCE

The Project includes various actions to ensure that LAUSD complies with various federal, State, and local statutory and regulatory requirements. These include improvements required by the ADA, California Division of the State Architect (DSA), Office of the Independent Monitor, and the recently adopted SCs.

IMPACTS

Wood's Architectural Historian, Jay Carlander, PhD, who meets the Secretary of the Interior's *Professional Qualification Standards* in the field of Architectural History, evaluated the potential effects of the Project to determine if they would have a "substantial adverse change in the significance of a historical resource" (PRC §21084.1). CEQA Guidelines Section 15064.5(b), *Determining the Significance of Impacts to Archaeological and Historical Resources* explains circumstances of when this adverse change may occur:

> *(b) A project with an effect 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.*
>
> *(1) 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.*
>
> *(2) The significance of an 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 Public Resources Code or its identification in an 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) 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.*

Multi-Purpose Building

As described above, the Multi-Purpose Building (Building 1) is recognized in the *2018 HRER* as one of the original buildings on Campus that maintains its character-defining features and is a contributing element of the Taft High School Historic District. These character-defining features include:

- Participation in a unified, cohesive site design, with buildings (generally one to two stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways, and curvilinear brick perimeter wall;
- An irregular L-shaped building plan, with extended roofline creating open air, covered lunch pavilion and connecting to Student Store Building to the northwest;
- Distinctive Mid-Century Modern Design elements, including symmetrical design composition; limited ornamentation; square, concrete post and beam roof supports; and use of decorative metal panels to create permanent and sliding walls; and

- Interior: open, multi-purpose room with stage framed by stacked-bond brick and scored detailing above; and brick walls in hallway.

The Project would involve major modernization of the Multi-Purpose Building (Building 1) including seismic retrofit pursuant to AB 300 (e.g., strengthening existing piers, installing/replacing cross ties, blocking, and anchors, installing/replacing joists, strengthening existing diaphragm, etc.) and low voltage electrical upgrades. However, as previously described, these improvements would be limited to the Multi-Purpose Room and supporting spaces. The remainder of the building would not require reconfiguration. While the proposed major modernization would have a direct physical effect on the character-defining features of the Multi-Purpose Building (Building 1) during construction, the improvements would not result in demolition or substantial alterations to either the exterior or interior appearance of the building. The proposed seismic retrofits would involve modifications to the interior structural components of the building and would be hidden from view by finishing (e.g., flooring, drywall, etc.). Similarly, the low voltage electrical upgrades would be buried underground and/or located within the walls of the building. Therefore, the proposed major modernization would have a less than significant impact on the structure's historic character-defining features. These less than significant impacts would be further reduced with the required implementation of the *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-5) (see *Mitigation* discussion below).

Administrative Building

The Administrative Building (Building 21) is recognized in the *2018 HRER* as one of the original buildings on Campus that maintains its character-defining features and is a contributing element of the Taft High School Historic District. These character-defining features include:

- Participation in a unified, cohesive site design, with buildings (generally one to two stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways;
- An L-Shaped building plan connecting to Classroom Building A to southeast;
- Distinctive Mid-Century Modern architectural design, including horizontal design composition; lack of ornamentation, smooth wall surfaces, and bands of flush aluminum framed windows partially covered by louvers; and
- Interior: double-loaded hallways with brick walls and original patterned linoleum flooring; metal railings; tile backsplashes; perforated metal ceiling panels; built-in trophy cases; and murals.

The Project would involve major modernization of the Administrative Building (Building 21) including seismic retrofit pursuant to AB 300 and low voltage electrical upgrades. However, as previously described, these improvements would be limited to the administrative and drama areas. Additionally, as with the Multi-Purpose Building (Building 1), the proposed major modernization of the Administrative Building (Building 21) would not affects its character-defining features as it would not result in demolition or substantial alterations to either the exterior or interior appearance of the building. Therefore, the proposed major modernization would have a less than significant impact on the structure's historic character-defining features. These less than significant impacts would be further reduced with the required implementation of the *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-5) (see *Mitigation* discussion below).

Classroom Building C

Classroom Building C (Building 6) is recognized in the *2018 HRER* as one of the original buildings on Campus that maintains its character-defining features and is a contributing element of the Taft High School Historic District. These character-defining features include:

- Participation in a unified, cohesive site design, with buildings (generally one to two stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways;
- Exterior walls composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, brick end walls, blade walls, accents, and brushed metal signage;
- Distinctive Mid-Century Modern design elements, including horizontal design composition, lack of ornamentation, smooth wall surfaces, and bands of flush aluminum-framed windows partially covered by louvers; and
- Interior: split-level interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers and brick walls; enclosed hallway with brick walls and large picture windows; tilework band metal railings; stairways with metal railings and scored concrete and brick walls; tile backsplashes of drinking fountains.

The Project would involve light modernization of Classroom Building C (Building 6) including the addition of ADA accessible restrooms, signage, classroom sinks, drinking fountains, an assistive listening system, and a covered exterior connection to the proposed elevator in Classroom Building D (Building 18). These modifications would have a direct physical effect on the character-defining features of this contributing element of the Taft High School Historic District. Potential impacts would be reduced to less than significant levels with the implementation of the *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-5) (see *Mitigation* discussion below). The covered exterior connection to Classroom Building D (Building 18) would incorporate the following to complement existing character defining elements:

- Exterior walls composed of porcelain enamel-coated panels within aluminum framing;
- Brick end walls, blade walls, accents, and brushed metal signage; and
- Lack of ornamentation and smooth wall surfaces.

Classroom Building D

Classroom Building D (Building 18) is recognized in the *2018 HRER* as one of the original buildings on Campus that maintains its character-defining features and is a contributing element of the Taft High School Historic District. These character-defining features include:

- Participation in a unified, cohesive site design, with buildings (generally one to two stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways;
- Exterior walls composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, brick end walls, blade walls, accents, and brushed metal signage;
- Distinctive Mid-Century Modern design elements, including horizontal design composition, lack of ornamentation, smooth wall surfaces, and bands of flush aluminum-framed windows partially covered by louvers; and
- Interior: split-level interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers; stairways with metal railings and scored concrete and brick walls; interior wood and glass partitions in classrooms; and tile backsplashes of drinking fountains.

The Project would involve light modernization of Classroom Building D (Building 18) including the addition of ADA accessible restrooms, signage, classroom sinks, drinking fountains, and an assistive listening system. Additionally, the Project would provide a new exterior elevator with an enclosure, canopy, and bridge connection(s) to floor levels and Classroom Building C (Building 6). These modifications would have a direct

physical effect on the character-defining features of this contributing element of the Taft High School Historic District. Potential impacts would be reduced to less than significant levels with the implementation of LAUSD's *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-5) (see *Mitigation* discussion below). The new exterior elevator with an enclosure, canopy, and bridge connection(s) to floor levels and Classroom Building C (Building 6) would incorporate the following to complement existing character defining elements:

- Exterior walls composed of porcelain enamel-coated panels within aluminum framing;
- Brick end walls, blade walls, accents, and brushed metal signage; and
- Lack of ornamentation and smooth wall surfaces; and
- Bands of flush aluminum-framed windows (where applicable).

Classroom Building B

Classroom Building B (Building 19) is recognized in the *2018 HRER* as one of the original buildings on Campus that maintains its character-defining features and is a contributing element of the Taft High School Historic District. These character-defining features include:

- Participation in a unified, cohesive site design, with buildings (generally one to two stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways;
- Distinctive Mid-Century Modern design elements, including horizontal design composition, lack of ornamentation, smooth wall surfaces, and bands of flush aluminum-framed windows partially covered by louvers;
- Exterior walls composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, brick end walls, blade walls, accents, and brushed metal signage; and
- Interior: split-level interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers; open atrium of hyphen with concrete spider legs, brick planters; and stairways with metal railings and scored concrete and brick walls.

The Project would involve light modernization of Classroom Building B (Building 19) including the addition of ADA accessible restrooms, signage, classroom sinks, drinking fountains, and an assistive listening system. These improvements would be to the interior of the building and would be designed consistent with exterior character-defining features. Further, the improvements would not affect the interior character defining features of the building (i.e., interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers; open atrium of hyphen with concrete spider legs, brick planters; and stairways with metal railings and scored concrete and brick walls). Therefore, the proposed major modernization would have a less than significant impact, which would be further reduced with the required implementation of the *2018 LAUSD Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-5) (see *Mitigation* discussion below).

Classroom Building A

Classroom Building A (Building 20) is recognized in the *2018 HRER* as one of the original buildings on Campus that maintains its character-defining features and is a contributing element of the Taft High School Historic District. These character-defining features include:

- Participation in a unified, cohesive site design, with buildings (generally one to two stories) oriented around courtyards with concrete walkways, open spaces with landscaping, and site plan connected via circulation corridors, sheltered walkways and breezeways;

- Distinctive Mid-Century Modern design elements, including horizontal design composition, lack of ornamentation, smooth wall surfaces, and bands of flush aluminum-framed windows partially covered by louvers;
- Exterior walls composed of porcelain enamel-coated panels within aluminum framing and operable, aluminum-framed windows, brick end walls, blade walls, accents, and brushed metal signage; and
- Interior: split-level interior with double-loaded hallways with original patterned linoleum flooring and lined with lockers; stairways with metal railings and scored concrete and brick walls; interior wood and glass partitions in classrooms; and tile backsplashes of drinking fountains.

The Project would involve light modernization of Classroom Building A (Building 20) including the addition of ADA accessible restrooms, signage, classroom sinks, drinking fountains, and an assistive listening system. Additionally, the Project would provide a new exterior elevator with an enclosure, canopy, and bridge connection(s) to floor levels and Classroom Building C (Building 6). These modifications would have a direct physical effect on the character-defining features of this contributing element of the Taft High School Historic District. Potential impacts would be reduced to less than significant levels with the implementation of LAUSD's *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-5) (see *Mitigation* discussion below). The new exterior elevator with an enclosure, canopy, and bridge connection(s) to floor levels and Classroom Building C (Building 6) would incorporate the following to complement existing character defining elements:

- Exterior walls composed of porcelain enamel-coated panels within aluminum framing;
- Brick end walls, blade walls, accents, and brushed metal signage;
- Lack of ornamentation and smooth wall surfaces; and
- Bands of flush aluminum-framed windows (where applicable).

Landscaping

The *2018 HRER* identified the following character-defining elements within the contributing landscape:

- Grass lawns, mature trees, and shrubs; and
- Mature trees, shrubs, and minimal grass lawn west of Classroom Building D (Building 18).

Approximately 417 trees exist on the Project site, of which an estimated 67 are proposed for removal primarily resulting from construction of the new softball field, accessibility to the visitor stadium seating, and expansion of the track and field. The number and tree locations may be subject to change as the Project design is refined and finalized. Landscaping removal would be limited to minimal amounts of grass lawn west of Classroom Building D (Building 18) and would not involve mature trees or shrubs. All tree removal would comply with LAUSD's Tree Trimming and Removal Procedure as well as SC-BIO-3. The Project landscaping would be designed to be compatible with the Campus and incorporate, to the extent possible, native plants and vegetation that are appropriate for the Campus and the Southern California setting. All plants and vegetation proposed for the Campus would be selected from LAUSD's approved plant list or would be approved by LAUSD prior to being placed on the Campus. Therefore, impacts on the removal of an estimated 67 trees outside of the vicinity of structures considered contributing historic district elements would be less than significant.

Indirect Effects

In addition to the direct effects described above, the proposed demolition of nine permanent buildings and twelve temporary buildings/portables would occur throughout the Taft Charter High School campus, causing some visual and atmospheric impact to the eight contributing elements of the Taft High School Historic District. However, none of the buildings programmed for demolition have been determined to be historically or architecturally significant, nor would any of the demolition activities take place within the perimeter that

encompasses the eligible buildings, adjacent courtyards, walkways, and landscaping. The nine buildings in closest proximity to the eligible historic district buildings are located on the other side of an access road and are more spatially oriented to the eastern perimeter of the circular roadway in the north central portion of the campus adjacent to Ventura Boulevard. The former Ivy Charter School buildings programmed for demolition are located in the southwestern corner of the campus more than 680 feet west of the Multi-Purpose Building (Building 1) (i.e., the nearest contributing building), and are obscured visually by the large Gymnasium Building (Building 2) located immediately adjacent to the west.

Consistent with SC-CUL-1 (see *Mitigation* discussion below), the proposed new structures would be constructed consistent with the design, scale, and massing of Classroom Building C (Building 6), Classroom Building D (Building 18), Classroom Building B (Building 19), and Classroom Building A (Building 20). Specifically, LAUSD would "…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." Therefore, the new structures would be compatible with the character-defining external attributes of the historic district and potential indirect effects would be less than significant.

Therefore, indirect effects of proposed demolition on surrounding historic resources would be less than significant. Less than significant indirect impacts would be reduced further by the implementation of the *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-3 and SC-CUL-5) (see *Mitigation* discussion below).

Proposed landscaping associated with the new softball field, accessibility to the visitor stadium seating, and expansion of the track and field would not be visible from the Classroom Building C (Building 6), Classroom Building D (Building 18), Classroom Building B (Building 19), and Classroom Building A (Building 20) that are considered contributors to the historic district eligibility. Therefore, the landscaping removals would have no indirect impact on their significance.

MITIGATION

CEQA Guidelines Section 15126.4(b), *Consideration and Discussion of Mitigation Measures Proposed to Minimize Significant Effects, Mitigation Measures Related to Impacts on Historical Resources*, provides explicit direction relative to strategies that are capable of reducing significant impacts to a less than significant level.

> *(1) Where maintenance, repair, stabilization, rehabilitation, restoration, preservation, conservation or reconstruction of the historical resource will be conducted in a manner consistent with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings (1995), Weeks and Grimmer, the project's impact on the historical resource shall generally be considered mitigated below a level of significance and thus is not significant.*
>
> *(2) In some circumstances, documentation of an historical resource, by way of historic narrative, photographs or architectural drawings, as mitigation for the effects of demolition of the resource will not mitigate the effects to a point where clearly no significant effect on the environment would occur.*

Multi-Purpose Building

Direct effects associated with the proposed major modernization of the Multi-Purpose Building (Building 1) would be less than significant. These impacts would be further reduced with the implementation of the *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-5). Specifically, that:

- "The Historic Architect shall work with the Design Team (including the Structural Engineer) and LAUSD to ensure project components, including new construction and modernization of existing facilities, comply with 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 and LAUSD throughout the design process to develop project options that facilitate compliance with the applicable historic preservation standards" (SC-CUL 1).
- "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" (SC-CUL-1).
- "The Design Team, Historic Architect, and Construction Contractor shall apply LAUSD School and Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and modernization projects. In keeping with LAUSD's adopted policies and goals, historical resources shall be reused rather than destroyed, where feasible" (SC-CUL-2).
- Project construction should:
    - "Retain and preserve the character of historical resources" (SC-CUL-2).
    - "Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match materials, dimensions, and appearance" (SC-CUL-2).
    - "Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity" (SC-CUL-2).
    - "Where practical, conceal reinforcement required for structural stability or the installation of life safety or mechanical systems" (SC-CUL-2).
- "Prior to any major alteration to or adjacent to a historic resource that may potentially damage historic resources (or previously identified historic features), the Historic Architect shall develop a Temporary Protection Plan that identifies potential risks to the historic resource. The Temporary Protection Plan shall be prepared in coordination with the Construction Contractor and LAUSD prior to demolition or construction." (SC-CUL-3)
- "Prior to significant alteration or demolition of a historical resource, LAUSD shall retain an Architectural Photographer and/or a Historian or Architectural Historian who meet the Secretary of the Interior's Professional Qualifications Standards and who shall prepare a HABS-like Historic Documentation Package (Package). The Package shall include photographs and descriptive narrative. Documentation will draw upon primary- and secondary-source research including available studies prepared for the property" (SC-CUL-4).
- "LAUSD shall comply with Design Specification 01 3591, Historic Treatment Procedures, as applicable. This Specification requires the Construction Contractor to submit a Historic Treatment Plan to LAUSD for the protection, repair, and replacement of historic materials and features" (SC-CUL-5).

Residual Impact

Implementation of the SCs described above would ensure that proposed major modernization of the Multi-Purpose Building (Building 1) would integrate and retain the integrity of historic character-defining features under the guidance of a Historic Architect. Residual impacts would be *less than significant*.

Administrative Building

Direct effects associated with the proposed major modernization of the Administrative Building (Building 21) would be less than significant. These impacts would be further reduced with the implementation of the *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-5). Specifically, that:

- "The Historic Architect shall work with the Design Team (including the Structural Engineer) and LAUSD to ensure project components, including new construction and modernization of existing facilities, comply with 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 and LAUSD throughout the design process to develop project options that facilitate compliance with the applicable historic preservation standards" (SC-CUL-1).
- "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" (SC-CUL-1).
- "The Design Team, Historic Architect, and Construction Contractor shall apply LAUSD School and Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and modernization projects. In keeping with LAUSD's adopted policies and goals, historical resources shall be reused rather than destroyed, where feasible" (SC-CUL-2).
- Project construction should:
    - "Retain and preserve the character of historical resources" (SC-CUL-2).
    - "Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match materials, dimensions, and appearance" (SC-CUL-2).
    - "Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity" (SC-CUL-2).
    - "Where practical, conceal reinforcement required for structural stability or the installation of life safety or mechanical systems" (SC-CUL-2).
- "Prior to any major alteration to or adjacent to a historic resource that may potentially damage historic resources (or previously identified historic features), the Historic Architect shall develop a Temporary Protection Plan that identifies potential risks to the historic resource. The Temporary Protection Plan shall be prepared in coordination with the Construction Contractor and LAUSD prior to demolition or construction." (SC-CUL-3)
- "Prior to significant alteration or demolition of a historical resource, LAUSD shall retain an Architectural Photographer and/or a Historian or Architectural Historian who meet the Secretary of the Interior's Professional Qualifications Standards and who shall prepare a HABS-like Historic Documentation Package (Package). The Package shall include photographs and descriptive narrative. Documentation will draw upon primary- and secondary-source research including available studies prepared for the property" (SC-CUL-4).
- "LAUSD shall comply with Design Specification 01 3591, Historic Treatment Procedures, as applicable. This Specification requires the Construction Contractor to submit a Historic Treatment Plan to LAUSD for the protection, repair, and replacement of historic materials and features" (SC-CUL-5).

Residual Impact

Implementation of the SCs described above would ensure that proposed major modernization of the Administrative Building (Building 21) would integrate and retain the integrity of historic character-defining features under the guidance of a Historic Architect. Residual impacts would be *less than significant*.

Classroom Buildings C, D, B, A

Direct effects associated with proposed light modernization of Classroom Building C (Building 6), Classroom Building D (Building 18), Classroom Building B (Building 19), and Classroom Building A (Building 20) would be less than significant. They would be reduced further by the implementation of the *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL 1 through SC-CUL-5). Specifically, that:

- "The Historic Architect shall work with the Design Team (including the Structural Engineer) and LAUSD to ensure that project components, including new construction and modernization of existing facilities, comply with 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 and LAUSD throughout the design process to develop project options that facilitate compliance with the applicable historic preservation standards" (SC-CUL-1).
- "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" (SC-CUL-1).
- "The Design Team, Historic Architect, and Construction Contractor shall apply LAUSD School and Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and modernization projects. In keeping with LAUSD's adopted policies and goals, historical resources shall be reused rather than destroyed, where feasible" (SC-CUL-2).
- Project construction should:
    - "Retain and preserve the character of historical resources" (SC-CUL-2).
    - "Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match materials, dimensions, and appearance" (SC-CUL-2).
    - "Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity" (SC-CUL-2).
    - "Where practical, conceal reinforcement required for structural stability or the installation of life safety or mechanical systems" (SC-CUL-2).
    - For the breezeway between Classroom Building C (Building 6), Classroom Building D (Building 18), Classroom Building B (Building 19), and Classroom Building A (Building 20) and elevator addition to Classroom Buildings D (Building 18) and Classroom Building A (Building 20), this would include the following to complement existing character defining elements:
        - Exterior walls composed of porcelain enamel-coated panels within aluminum framing;
        - Brick end walls, blade walls, accents, and brushed metal signage; and
        - Lack of ornamentation and smooth wall surfaces; and
        - Bands of flush aluminum-framed windows (where applicable).

- "Prior to any major alteration to or adjacent to a historic resource that may potentially damage historic resources (or previously identified historic features), the Historic Architect shall develop a Temporary Protection Plan that identifies potential risks to the historic resource. The Temporary Protection Plan shall be prepared in coordination with the Construction Contractor and LAUSD prior to demolition or construction" (SC-CUL-3).
- Prior to significant alteration or demolition of a historical resource, LAUSD shall retain an Architectural Photographer and/or a Historian or Architectural Historian who meet the Secretary of the Interior's Professional Qualifications Standards and who shall prepare a HABS-like Historic Documentation Package (Package). The Package shall include photographs and descriptive narrative. Documentation will draw upon primary- and secondary-source research including available studies prepared for the property" (SC-CUL-4).
- "LAUSD shall comply with Design Specification 01 3591, Historic Treatment Procedures, as applicable. This Specification requires the Construction Contractor to submit a Historic Treatment Plan to LAUSD for the protection, repair, and replacement of historic materials and features" (SC-CUL-5).

Residual Impact

Implementation of the SCs described above ensure that proposed construction design would integrate and retain the integrity of historic character defining features under the guidance of a historic architect. Residual impacts would be *less than significant*.

Indirect Effects

Potential indirect effects associated with the proposed demolition of existing buildings, new construction, and ancillary improvements would be reduced further by the implementation of the *Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects* for cultural resources (SC-CUL-1 through SC-CUL-3 and SC-CUL-5). Specifically, that:

- "For new construction, the Historic Architect shall work with the Design Team (including the Structural Engineer) 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" (SC-CUL-1).
- "The Historic Architect shall participate in pre-construction and construction monitoring activities, as appropriate, to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources" (SC-CUL-1).
- "The Design Team, Historic Architect, and Construction Contractor shall apply LAUSD School and Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools and the Secretary's Standards for all new construction and modernization projects" (SC-CUL-2).
- Project construction should "Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity" (SC-CUL-2).
- "Prior to any major alteration to or adjacent to a historic resource that may potentially damage historic resources (or previously identified historic features), the Historic Architect shall develop a Temporary Protection Plan that identifies potential risks to the historic resource. The Temporary Protection Plan shall be prepared in coordination with the Construction Contractor and LAUSD prior to demolition or construction." (SC-CUL-3).

- "LAUSD shall comply with Design Specification 01 3591, Historic Treatment Procedures, as applicable. This Specification requires the Construction Contractor to submit a Historic Treatment Plan to LAUSD for the protection, repair, and replacement of historic materials and features" (SC-CUL-5).

Residual Impact

Implementation of the SCs described above would ensure that proposed comprehensive modernization would ensure compatibility with surrounding historic structural character defining features under the guidance of a historic architect. Residual impacts would be *less than significant*.

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Appendix E

Geologic and Environmental Hazards Assessment

REPORT OF GEOTECHNICAL INVESTIGATION PROPOSED SCHOOL MODERNIZATION

WILLIAM HOWARD TAFT CHARTER HIGH SCHOOL
5461 WINNETKA AVENUE
WOODLAND HILLS DISTRICT
LOS AGNELES, CALIFORNIA

Prepared for:

LOS ANGELES UNIFIED SCHOOL DISTRICT

Los Angeles, California

June 2, 2017

Project 4953-17-0421

amec
foster
wheeler

June 2, 2017

Mr. Peyman Soroosh Maghadam
Supervising Structural Engineer
Los Angeles Unified School District
333 South Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Subject: **LETTER OF TRANSMITTAL**
Report of Geotechnical Investigation
Proposed School Modernization
William Howard Taft Charter High School
5461 Winnetka Avenue
Woodland Hills, California 91364
Amec Foster Wheeler Project 4953-17-0371

Dear Mr. Maghadam:

We are pleased to submit the results of our geotechnical investigation in support of the proposed school modernization at William Howard Taft Charter High School in Woodland Hills, California. This investigation was conducted in general accordance with our proposal dated March 13, 2017 and Task Order No. 025, dated March 17, 2017, under the Professional Services Agreement for Geotechnical Engineering Support Services (Contract No. 1590051/4400003490) between the Los Angeles Unified School District and our firm, dated April 1, 2015.

The scope of our services was planned with Ms. Cristina Cho of your office. Ms. Cho has furnished us with the as-built drawing set which contains the structural plans for each of the main structures constructed during the initial development of the school campus, including the two buildings (Administration Building and Multipurpose Building) proposed to be seismically upgraded. Detailed information regarding new design elements, including specific locations, structural configurations, and loading information, is not available at this time.

The results of our investigation and design recommendations are presented in this report. Please note that you or your representative should submit copies of this report to the appropriate governmental agencies for their review and approval prior to obtaining a building permit.

Correspondence:
Amec Foster Wheeler
6001 Rickenbacker Road
Los Angeles, California 90040
USA
Tel +1 (323) 889-5300
Fax +1 (323)721-6700
www.amecfw.com

It has been a pleasure to be of professional service to you. Please contact us if you have any questions or if we can be of further assistance.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

REGISTERED PROFESSIONAL ENGINEER
LARRY CHIH CHAO HONG
NO. 80989
CIVIL
STATE OF CALIFORNIA

Larry Hong
Technical Professional Engineer III - Geotechnical

REGISTERED PROFESSIONAL ENGINEER
MARK ANDREW MURPHY
No. 2777
GEOTECHNICAL
STATE OF CALIFORNIA

Mark A. Murphy
Associate Geotechnical Engineer
Project Manager

PROFESSIONAL GEOLOGIST
PAUL JAMES ELLIOTT
NO. 1435
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Paul Elliott
Principal Engineering Geologist

Reviewed by:

REGISTERED PROFESSIONAL ENGINEER
MARSHALL LEW
No. 522
GEOTECHNICAL
STATE OF CALIFORNIA

Marshall Lew, Ph.D.
Principal Engineer
Vice President

P:\4953 Geotech\2017-proj\170421 LAUSD Taft HS Modernization\4.0 Project Deliverables\4.1 Reports\Final Report\4953-17-0421r01.doc/LH:mm

(Submitted Electronically)

Attachments

REPORT OF GEOTECHNICAL INVESTIGATION
PROPOSED SCHOOL MODERNIZATION

WILLIAM HOWARD TAFT CHARTER HIGH SCHOOL
5461 WINNETKA AVENUE
WOODLAND HILLS DISTRICT
LOS ANGELES, CALIFORNIA

Prepared for:

LOS ANGELES UNIFIED SCHOOL DISTRICT

Los Angeles, California

Amec Foster Wheeler

Los Angeles, California

June 2, 2017

Project 4953-17-0421

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EXECUTIVE SUMMARY

We have completed our geotechnical investigation for the proposed school modernization project on the campus of William Howard Taft Charter High School in the Woodland Hills district of the City of Los Angeles, California. Our subsurface explorations, engineering analyses, and foundation design recommendations are summarized below.

The schematic site design of the proposed modernization project is still being developed and information regarding specific locations, building configurations, and structural loads of the design elements are not available at this time; however, it is our understanding that the existing Administrative Building and Multipurpose Building, constructed of masonry and concrete, will be seismically upgraded. It is anticipated that one- to two-story buildings similar to the existing (some with potential 1-level basements) will be constructed.

To supplement our existing data, the soil conditions beneath the site were explored by drilling additional three exploration borings to depths of 31 to 51 feet below the existing grade. In addition to the exploration borings, three borings were drilled to depths of approximately 6 feet below the existing grade for the purpose of determining the infiltration rate of the subsurface soils.

Fill soils, about 2 to 16 feet thick, primarily consisting of sandy lean clay with shale fragments and some localized pockets and thin discontinuous layers of silty sand and sandy silt, were encountered in our current and prior borings. Due to the extensive site grading previously performed at the site, deeper fill, up to approximately 20 feet in thickness, could occur between borings. The natural soils encountered in the borings drilled within the school campus, either underlying the fill or exposed from the surface, consist predominantly of medium stiff sandy lean and fat clay with occasional thin layers of sand and silt. Natural soils were encountered under the pavement in Boring 3 drilled within Parking Area No. 1, which consisted of sandy lean clay extending to the depth of 29 feet with interbedded layers of sand and silt between depths of about 9½ and 22 feet. The clayey soils at the site are highly expansive and will shrink and swell with fluctuations in moisture content. Bedrock, consisting predominantly of claystone and occasional thin interlayers of sandstone, was encountered beneath the natural soils or existing fill soils in our deeper borings. The corrosion studies from our current and prior investigations indicate that the on-site soils are severely corrosive to ferrous metals, aggressive to copper, aggressive with respect to exposure of concrete to acid attack, and could subject metal to microbially influenced corrosion. In addition, the potential for sulfate attack on portland cement concrete is considered severe.

Active or potentially active faults with the potential for surface fault rupture are not known to be located directly beneath or projecting toward the site. Therefore, the potential for surface rupture due to fault plane displacement propagating to the surface at the site during the design life of the proposed project is considered low. The site could be subjected to strong ground shaking in the event of an earthquake, this hazard is common in Southern California and the effects of ground shaking can be mitigated by proper engineering design and construction in conformance with current building codes and engineering practices. The relatively flat-lying topography at the site precludes both stability problems and the potential for lurching (earth movement at right angles to a cliff or steep slope during ground shaking). The site is located in an area of high potential for

indoor radon levels above 4.0 picocuries per liter. Therefore, radon resistant building techniques should be implemented in accordance to federal EPA and CDPH recommendations. The potential for other geologic hazards such as liquefaction, seismically-induced settlement, tsunamis, seiches, flooding, asbestos, methane gas, volcanic activity and subsidence affecting the site is considered low

Records documenting the placement and compaction of the existing fill soils are not available; therefore, existing fill soils within the project areas are not considered suitable for support of new structures on conventional spread/continuous footings. Accordingly, if the existing fill soils are excavated and replaced with properly compacted fill, new structures may be supported on conventional spread/continuous footings established in natural materials and/or properly compacted fill.

As an alternative to excavating and replacing the existing fill soils as properly compacted fill, new buildings could be supported on drilled cast-in-place concrete pile foundations and the lower floor slabs structurally supported.

If the existing fill soils are removed and replaced as properly compacted fill, floor slabs, pavement, and other exterior walks and slabs may be supported on grade. If the risk for some settlement and greater than normal maintenance is acceptable, only the upper 2 feet of existing fill soils need be removed and replaced as properly compacted fill beneath pavement, and exterior walks and slabs. However, after the 2-foot removal is completed, the exposed subgrade should be carefully observed by a representative of our firm to identify any soft areas that may require additional excavation and compaction.

The on-site clayey soils and bedrock are highly expansive and may shrink and swell with fluctuations in moisture content. We recommend that, where encountered, the upper clayey soils be excavated to allow for the placement of at least 2 feet of relatively non-expansive soils beneath floor slabs, pavement, and other exterior concrete walks and slabs on grade. For structurally supported floor slabs, where clayey soils are encountered, either the upper 2 feet of these soils should be removed and replaced with relatively non-expansive soils, as recommended for floor slabs supported on-grade, or the floor slab should be constructed with a gap of at least 6 inches between the floor slab and the underlying soils. This could be accomplished through the use of compressible cardboard or foam forms.

1.0 SCOPE

This report provides geotechnical recommendations for the proposed modernization of the William Howard Taft Charter High School (Taft High School) campus in the Woodland Hills district of the City of Los Angeles, California. The location of the site is illustrated on Figure 1, Vicinity Map. The locations of our current and prior exploration borings, field percolation tests, existing buildings within the school campus, nearby major streets, and the locations of the two buildings (the existing Administrative Building and Multipurpose Building) to be seismically upgraded are shown on Figure 2, Plot Plan.

We previously performed several geotechnical investigations for the high school campus, the results of which were submitted in the following reports:

- Report of Geotechnical Investigation; Proposed Remodel of Existing Multi-purpose Building; William Howard Taft High School; 5461 Winnetka Avenue, Woodland Hills District, Los Angeles, California; Prepared for the Los Angeles Unified School District; our Project No. 4953-11-1001 (under the name of Amec, an Amec Foster Wheeler legacy company); dated September 22, 2011.

- Report of Foundation Investigation; Proposed William Howard Taft High School; Ventura Boulevard and Winnetka Avenue, Los Angeles, California; for the Los Angeles City Board of Education; our Project No. 57303 (under the name of LeRoy Crandall & Associates, an Amec Foster Wheeler legacy company); dated December 31, 1957.

In addition, we have performed a series of extensive studies to evaluate the foundation and floor slab distress observed within Building C. The results of our investigations are summarized in the following reports:

- Report of Special Investigation and Engineering Services; William Howard Taft High School; Building C Distress; 5461 Winnetka Avenue, Woodland Hills, California; Prepared for the Los Angeles Unified School District; our Project No. 4953-06-0423 (under the name of MACTEC Engineering, an Amec Foster Wheeler legacy company); dated September 25, 2006.

- Report of Supplemental Geotechnical Exploration; William Howard Taft High School; Building C Distress; 5461 Winnetka Avenue, Woodland Hills, California; Prepared for the Los Angeles Unified School District; our Project No. 70131-2-0058.0003 (under the name of MACTEC Engineering, an Amec Foster Wheeler legacy company); dated April 22, 2002.

- Report of Geotechnical Investigation; William Howard Taft High School; Building C Distress; 5461 Winnetka Avenue, Los Angeles, California; Prepared for the Los Angeles Unified School District; our Project No. 70131-2-0058.0002 (under the name of LAW Crandall, an Amec Foster Wheeler legacy company); dated April 22, 2002.

- Results of Manometer Surveys; William Howard Taft High School; Distress Evaluation; Ventura Boulevard and Winnetka Avenue, Woodland Hills, California; Prepared for the Los Angeles Unified School District; our Project No. 70131-2-0058.0001 (under the name of LAW Crandall, an Amec Foster Wheeler legacy company); dated April 10, 2002.

We acknowledge that we have reviewed our prior reports and we concur with the data and findings contained therein.

This investigation was authorized to determine the general static physical characteristics of the soils at the school campus, and to provide preliminary design recommendations for analysis of existing foundations, design of new foundations, walls below grade, and minor retaining walls, for floor slab and paving support, for temporary shoring, and for grading for the project. More specifically, the scope of our services included the following:

- Evaluate the current and previous subsurface explorations to determine the nature and stratigraphy of the subsurface soils and bedrock within the subject site.

- Perform a geologic-seismic hazards evaluation in general conformance with Title 24 of the California Code of Regulations and with the California Geological Survey Checklist for Review of Geologic-Seismic Reports for California Public Schools, Hospitals, and Essential Services Buildings (CGS Note 48).

- Recommend an appropriate foundation system together with the necessary design parameters, including frictional resistance, passive resistance, and anticipated total and differential settlements.

- Determine the applicable seismic design parameters based on the current California Building Code (CBC) and ASCE 41-13.

- Provide recommendations for subgrade preparation and floor slab support.

- Provide recommendations for design of temporary shoring.

- Provide recommendations for design of retaining walls and walls below grade.

- Provide recommendations for design of asphalt and portland cement concrete paving.
- Provide recommendations for earthwork and grading.

The assessment of general site environmental conditions for the presence of contaminants in the soils and groundwater of the site was beyond the scope of this investigation.

Our recommendations are based on the results of our current and previous field explorations, laboratory tests, and appropriate engineering analyses. The results of the current field explorations and laboratory tests, which, together with the data obtained during our previous investigations, form the basis of our recommendations, are presented in Appendix A. The results of our previous field explorations and laboratory testing are presented in Appendix B.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable geotechnical consultants practicing in this or similar localities. No other warranty, express or implied, is made as to the professional advice included in this report. This report has been prepared for Los Angeles Unified School District and their design consultants to be used solely for the proposed school modernization project at Taft High School. This report has not been prepared for use by other parties, and may not contain sufficient information for purpose of other parties or other uses.

2.0 PROJECT DESCRIPTION AND SITE CONDITIONS

The campus of Taft High School encompasses approximately 40 acres of land and consists of numerous existing one- to two-story permanent and modular-type structures supported on either drilled-and-belled caissons or spread footings. Several of the buildings have split floor levels with portions of the finished floor elevations lower than the adjacent exterior grade. The original buildings were constructed in 1958 and considerable grading operations with up to 50 feet of cut and 20 feet of fill in some areas was performed to achieve the currently existing surface grade. The approximate pre-grading 1957 topography is shown on the Plot Plan included with our 1957 data in Appendix B. The current ground surface at the site is relatively flat with a gentle slope descending from southwest towards northeast. Various retaining walls and embankments are present in some areas of the school campus. The tallest existing slope, which is approximately 31 feet in height, is located adjacent to southwest border of the campus next to the intersection of Del Moreno Drive and Santa Rita Street. The majority of the site surface within the school campus is paved with asphalt concrete except in the track and field area located in the north, the ballfields in the west, and numerous planters and lawn areas throughout the campus.

Evaluations were performed between 2002 and 2006 by our firm to study the distress observed in Building C. The studies have indicated the building floor in some areas had settled more than 4 inches. In our 2006 report, we concluded the settlement had ceased or had progressed at a slow rate prior to our initial study that took place in 2002 and that the cause was due to the softening of the underlying soils with increased moisture content.

The schematic site design of the proposed modernization project is still being developed and information regarding specific locations, building configurations, and structural loads of the design elements are not available at this time; however, it is our understanding that the existing Administrative Building and Multipurpose Building (Designated as Unit A and Unit E, respectively, on the as-built plans), constructed of masonry and concrete, will be seismically upgraded. The existing lower floor Elevations for the Administration Building and the Multipurpose Building are at approximately Elevations 844 and 863 feet, respectively. The interior and exterior columns of both buildings are supported on drilled-

and-belled caissons established at between Elevations 836 and 839 feet for the Administrative Building and between Elevations 846 and 860 feet for the Multipurpose Building. The drilled-and-belled caissons underlying the Administrative Building and Multipurpose Building are designed to support dead-plus-live loads of up to about 75 kips and 45 kips, respectively.

For the purpose of this report, it is anticipated that one- to two-story buildings similar to the existing (some with potential 1-level basements) will be constructed. Accordingly, we have assumed that the walls of the building basement and underground parking garage will extend to the depth of no more than about 10 feet below existing grade and the dead-plus-live column loads of the new buildings will be on the order of 200 kips for buildings supported on grade and 300 kips for buildings with a basement level. Moreover, other new features, such as new pavement, minor structures, new landscaping, retaining walls, new lighting, fences, and new underground utilities are also anticipated.

3.0 EXPLORATIONS AND LABORATORY TESTS

To supplement our existing data, the soil conditions beneath the site were explored by drilling additional three exploration borings to depths of 31 to 51 feet below the existing grade. In addition to the exploration borings, three borings were drilled immediately adjacent to the each of the 3 exploration borings to depths of approximately 6 feet below the existing grade for the purpose of determining the infiltration rate of the subsurface soils. Data were also available from borings drilled as part of our previous geotechnical investigations at the school campus. The locations of the current and prior exploration borings and the borings drilled for the purpose of percolation testing are shown on Figure 2.

Details of our current explorations and the logs of the exploration borings are presented in Appendix A. The results of our prior explorations on the campus are presented in Appendix B.

Laboratory tests were performed on selected samples obtained from our current field explorations to aid in the classification of the soils and to determine the pertinent engineering properties of the foundation soils. The following tests were performed:

- Moisture content and dry density determinations.
- Fines content.
- Atterberg Limits.
- Direct shear.
- Consolidation.
- Expansion Index.
- Stabilometer (R-value).

All testing was performed in general accordance with applicable ASTM specifications at the time of testing. Details of our current laboratory testing program and test results are presented in Appendix A. The results of the prior laboratory testing are presented in Appendix B. Near surface soil samples were tested for corrosivity and evaluated by HDR. The results of their study and recommendations, including recommendations for type of cement and/or coating requirement for underground structures and utilities, are summarized in a report dated May 11, 2017, which is presented in Appendix C.

4.0 SOIL CONDITIONS

Fill soils, about 8 to 10 feet thick, were encountered in our two current borings (Borings 1 and 2) drilled adjacent to the existing Administrative Building, about 7 to 16 feet thick, in the two 2011 borings drilled adjacent to the existing Multi-Purpose Building, and about 2½ to 8 feet thick, in the three 2002 borings drilled adjacent to the existing Building C. Additionally, up to about 5 feet of fill soils were generally encountered in the borings drilled throughout the school campus in our 1957 investigation before the commencement of the grading for the initial school development, with the exception of Boring 1, which was drilled in the northwest corner of the existing track and field, where fill soils were encountered to the total depth explored of 21 feet below grade. The fill soils encountered in our current and prior borings primarily consisted of sandy lean clay with shale fragments and some localized pockets and thin discontinuous layers of silty sand and sandy silt. These fill soils are likely placed during initial grading at the school site using soils generated from the excavation. Fill soils, 2 feet in thickness, were encountered in our boring (Boring 3) drilled near the center of Parking Area No. 1 located across Winnetka Avenue from the school campus. Records documenting the placement of the fill soils at the site are not available. Due to the extensive site grading previously performed at the site, deeper fill, up to approximately 20 feet in thickness, could occur between borings. The approximate pre-grading 1957 topography is shown on the Plot Plan included with our 1957 data in Appendix B. In addition, deeper fill could also occur in other unexplored areas, particularly in areas where existing buildings and utilities are present.

The natural soils encountered in the borings drilled within the school campus, either underlying the fill or exposed from the surface, consist predominantly of medium stiff sandy lean and fat clay with occasional thin layers of sand and silt. Natural soils were encountered under the pavement in Boring 3 drilled within Parking Area No. 1, which consisted of sandy lean clay extending to the depth of 29 feet with interbedded layers of sand and silt between depths of about 9½ and 22 feet. The clayey soils at the site are highly expansive and will shrink and swell with fluctuations in moisture content. Bedrock, consisting predominantly of claystone and occasional thin interlayers of sandstone, was encountered beneath the natural soils or existing fill soils in our deeper borings.

Groundwater was encountered in our current and post-2002 borings ranging from Elevation 831 to 837 feet. Groundwater was encountered in only one of the borings drilled in 1957, and was encountered at the depth of 24 feet, which corresponds to Elevation 820 feet. According to the California Division of Mines and Geology, the historic-high groundwater level is mapped at a depth on the order of 10 feet below the ground surface. Generally, groundwater is encountered as localized seepage confined by impermeable alluvial layers and perched above the bedrock contact.

The corrosion studies from our current and prior investigations indicate that the on-site soils are severely corrosive to ferrous metals, aggressive to copper, aggressive with respect to exposure of concrete to acid attack, and could subject metal to microbially influenced corrosion. In addition, the potential for sulfate attack on portland cement concrete is considered severe. The report of corrosion studies presented in Appendix C should be referred to for additional information, a discussion of the corrosion potential of the soils, and for potential mitigation measures for buildings within the campus.

5.0 GEOLOGY

5.1 GEOLOGIC SETTING

The site is located in the western portion of the San Fernando Valley within the Transverse Ranges geomorphic province. This province is characterized by east-west trending geologic structures that include the east-west trending Santa Monica Mountains and the east-west trending active San Fernando fault zone. The trend of the San Fernando Valley reflects the overall trend of the Transverse Ranges, where major structural features exhibit an east-west orientation in contrast to the northwest-southeast trend that dominates in the rest of California. The San Fernando Valley is an area of compression between the San Gabriel Mountains on the northeast and the Santa Monica Mountains on the south that has created an elliptical-shaped basin approximately 23 miles wide and 12 miles long. The basin is filled with deposits from streams and rivers that have transported sediments from the surrounding upland areas. The east-west trend of the San Fernando Valley is reflected by Santa Monica Mountains and the nearby San Fernando fault zone located approximately 9.1 miles to the northeast.

Locally, the site is situated in an incised alluvial channel on the eastern flank of the Chalk Hills and underlain by Holocene- to late Pleistocene-age alluvial deposits and Miocene-age sedimentary bedrock of the Modelo Formation (Campbell et al., 2014; Yerkes and Campbell, 1997). The Chalk Hills comprise the low-lying hills extending north from the Santa Monica Mountains in the Tarzana area. The site is at an approximate elevation ranging from 850 to 880 feet above mean sea level (AMSL) (NAVD88).

The site in relation to topographic features is depicted in Figure 1, Vicinity Map. The relationship of the site to the local geologic conditions is depicted in Figure 3, Local Geology. Figure 4, Regional Geologic Map, shows the geology of the general region. The location of major faults and earthquake epicenters in Southern California are shown on the Regional Fault and Seismicity Map, Figure 5.

5.2 GEOLOGIC MATERIALS

Based on the materials encountered in our exploratory borings, the site is locally mantled with artificial fill, partly from the initial grading in 1957. Prior exploratory borings drilled at the site in 2011, 2002, and 1957 by our legacy companies encountered fill up to a depth of 16 feet (AMEC, 2011; Law/Crandall, 2002; LeRoy Crandall and Associates, 1958). Deeper and undocumented fill may be encountered between borings due. The fill encountered generally consists of silty sand, lean to fat clay and sandy clay with trace gravel. Beneath the fill, the campus is generally underlain by Holocene- to late Pleistocene-age alluvial deposits consisting of interbedded loose to medium dense sand, silty sand, and clayey sand with medium stiff to very stiff clay, silty clay, and sandy clay. The clay within the alluvium has been identified to be lean to fat. Additionally, according to our lab results, the onsite clay within the fill, alluvium, and bedrock are considered expansive.

Beneath the alluvial deposits in the eastern portion of the campus, claystone and sandstone of the Modelo Formation were encountered at depths of approximately 38, 18, and 29 feet below ground surface (bgs) in Borings 1, 2, and 3, respectively. In 2011, two exploratory borings in the south-central portion of the campus for the Multi-Purpose Building upgrade encountered siltstone bedrock at 19 and 22 feet bgs (AMEC, 2011). In the eastern portion of the campus near Building C, our prior three exploratory borings encountered siltstone and sandstone bedrock at depths of 18, 26, and 30 feet (Law/Crandall, 2002). In the south and southwest portion of the campus, our exploratory borings drilled in 1957 encountered bedrock at depths of 2, 15, and 17 feet (LeRoy Crandall and Associates, 1958). Bedrock can be expected at the surface in areas cut during grading, such as the western portions of the campus near the baseball fields and south-central portions of the campus where Buildings E, F, and G are located.

The bedrock encountered is generally highly to extremely weathered and well bedded. Bedding within the bedrock was noted to be dipping approximately 5 degrees in samples recovered from our current borings. Geologic maps of the region describe bedding as dipping between 8 to 12 degrees to the north and north-northwest (Yerkes and Campbell, 1997; Dibblee and Ehrenspeck, 1992)

5.3 GROUNDWATER

The site is located in the San Fernando Valley Groundwater Basin of the South Coast Hydrologic Region according to the California Department of Water Resources (DWR, 2003). According to the California Geological Survey, the historic high water level in the area is approximately 10 feet bgs (CDMG, 1997).

Groundwater was encountered at depths of 27½ and 25¼ feet in current exploratory Borings 1 and 3, respectively. Prior exploratory borings drilled in 2011 and 2002 encountered groundwater between the depths of 12 and 30½ feet (AMEC, 2011; Law/Crandall, 2002). In 1957, during the initial geotechnical investigation, groundwater was encountered at a depth of 24 feet in the vicinity of Building C (LeRoy Crandall and Associates, 1958).

Generally, groundwater is encountered as localized seepage confined by impermeable alluvial layers and perched above the bedrock contact.

5.4 FAULTS

The numerous faults in Southern California include active, potentially active, and inactive faults. The criteria for these major groups are based on criteria developed by the California Geological Survey (CGS) (previously the California Division of Mines and Geology) for the Alquist-Priolo Earthquake Fault Zoning Program (Bryant and Hart, 2007). By definition, an active fault is one that has had surface displacement within Holocene time (about the last 11,000 years). A potentially active fault is a fault that has demonstrated surface displacement of Quaternary age deposits (last 1.6 million years). Inactive faults have not moved in the last 1.6 million years. A list of nearby active faults and the distance in miles between the site and the nearest point on the fault, the maximum magnitude, and the slip rate for the fault is given in Table 1. A similar list for potentially active faults is presented in Table 2. The faults in the vicinity of the site are shown in Figure 5.

Active Faults

Simi-Santa Rosa Fault Zone

The active Simi fault of the Simi-Santa Rosa fault zone is located about 8.3 miles north of the site. The Simi fault is a left-oblique reverse fault within the Simi-Santa Rosa fault zone, a series of north dipping reverse faults (Hitchcock, et al., 2001). There have been no historic earthquakes associated with this fault. However, investigation (Hitchcock, et al. 2001) demonstrates faulting and warping of Holocene sediments. The California Geological Survey considers the Simi fault to be active and has established an Alquist-Priolo Earthquake Fault Zone for the fault. According to the CGS (Cao et al., 2003; Field et al., 2013), the Simi-Santa Rosa fault zone is capable of a moment magnitude 7.0 earthquake and has a slip rate of 0.7 mm/year.

Santa Susana Fault

The active Santa Susana fault is located about 8.8 miles north-northeast of the site. This fault extends northeastward from the Santa Susana Mountains across San Fernando Pass and into the San Gabriel Mountains (Crook et al., 1987). The Santa Susana fault is a part of the larger Sierra Madre frontal fault zone. According to the CGS, the Santa Susana is capable of a moment magnitude 6.7 and has a slip rate of 6.0 mm/yr (Field et al., 2013; Cao et al., 2003).

San Fernando Fault Zone

The active San Fernando fault zone is located approximately 9.1 miles to the northeast. This section comprises one of a number of left lateral/reverse frontal faults bounding the southern margin of the San Gabriel and Santa Susana Mountains (Crook et al., 1987). The San Fernando fault is a part of the larger Sierra Madre frontal fault zone. An earthquake of magnitude 6.6 occurred along this fault zone on February 9, 1971. Surface rupture occurred along the Tujunga, Sylmar, and Mission Wells segments of the San Fernando fault zone during this earthquake. According to the CGS (Cao et al., 2003; Field et al., 2013), the San Fernando fault is capable of a moment magnitude 6.7 earthquake and has a slip rate of 2.0 mm/yr.

Unnamed Possible Fault in North Hollywood

According to the USGS and CGS, an "Unnamed Possible Fault" in North Hollywood is located approximately 9.1 miles to the east (USGS/CGS, 2006; Bryant and Jennings, 2010). It has been inferred to be a Holocene feature from historical topography in conjunction with elevation studies in the vicinity (Weber et al., 1980; Hill, 1979). As evaluated by Weber et al. (1980; Hill, 1979), historical USGS topography indicates an east trending southerly break-in-slope transecting the North Hollywood High School campus. This topographic break has been inferred to be a possible fault scarp offsetting Holocene materials (Weber et al., 1980). The inferred 2-kilometer long fault is generally thought to strike at N80°E with a vertical dip (Ziony, 1985). In 2015, Amec Foster Wheeler performed a fault surface rupture hazard investigation for the North Hollywood High School campus (Amec Foster Wheeler, 2016). Active faulting associated with the Holocene-age "Unnamed Possible Fault in North Hollywood" was not encountered in the investigation.

Santa Monica Fault

The active Santa Monica fault, a left lateral, reverse oblique slip fault, is located approximately 9.4 miles south-southwest of the site. The Santa Monica and Hollywood fault zones form a portion of the Transverse Ranges Southern Boundary fault system. The Transverse Ranges Southern Boundary fault system also includes the Malibu Coast-Anacapa-Dume faults to the west of the Santa Monica fault and the Raymond and Cucamonga faults to the east of the Hollywood fault (Dolan et al., 2000a). The Santa Monica fault zone is the western segment of the Santa Monica-Hollywood fault zone. The fault zone trends east - west from the Santa Monica coastline on the west to the Hollywood area on the east. Urbanization and development within the greater Los Angeles area has resulted in a poor understanding of the lateral extent, location, and rupture history of the Santa Monica fault zone. However, the surface expression of the Santa Monica fault zone includes fault-related geomorphic features, offset stratigraphy, and ground water barriers within late Quaternary deposits (Hill et al., 1979, and Dolan et al., 2000).

Although the Santa Monica fault is considered active, it has not yet been included in an Alquist-Priolo Earthquake Fault Zone, however, it is expected to be zoned in the near future. An average slip rate of 1.0 mm/yr and a maximum moment magnitude of 6.6 are estimated by the CGS (Cao et al., 2003; Field et al., 2013) for the Santa Monica fault.

Malibu Coast Fault Zone

The active Malibu Coast fault zone, located about 10 miles southwest of the site, is a series of east-west trending, north-dipping reverse faults extending westward from Santa Monica to offshore of Point Mugu. Fault trenching conducted in 1990 at Latigo Canyon exposed a brecciated fault zone juxtaposed with wedges of colluvial deposits. The wedges are inferred to be remnants of vertical displacements dating the recurrence on the fault to be 4,000 to 6,000 years (Drumm, 1992). The observed fault is believed to be the central splay of the Malibu Coast fault zone; accordingly, the Holocene faulting is considered representative of active faulting along the Malibu Coast fault zone. Portions of the Malibu Coast Fault have been included as an Alquist-Priolo Earthquake Fault Zone. An average slip rate of 0.3 mm/yr and a maximum moment magnitude of 6.7 are estimated by the CGS (Cao et al., 2003; Field et al., 2013) for the Malibu Coast fault.

Verdugo Fault Zone

The active Verdugo fault zone, located approximately 11 miles east-northeast of the site, is composed of several faults including the Verdugo fault, the San Rafael fault, and the Eagle Rock fault. The most recent documented activity along this fault occurs in the Holocene age alluvial deposits along the western flank of the Verdugo Mountains in the Burbank area (County of Los Angeles, 1990). Additionally, this portion of the fault is considered active by the State (Jennings and Bryant, 2010). An Alquist-Priolo Earthquake Fault Zone has not been established for the Verdugo fault by the State. According to the CGS (Cao et al., 2003; Field et al., 2013), the Verdugo fault is capable of a moment magnitude 6.9 earthquake and has a slip rate of 0.4 mm/yr.

Newport-Inglewood Fault Zone

The Newport-Inglewood fault zone is located zone is located about 11 miles southeast of the site. The Newport-Inglewood fault zone is composed of a series of discontinuous

northwest-trending en echelon faults extending from Ballona Gap southeastward to the area offshore from Newport Beach. The Newport-Inglewood fault zone is reflected at the surface by a line of geomorphically young anticlinal hills and mesas formed by the folding and faulting of a thick sequence of Pleistocene age sediments and Tertiary age sedimentary rocks (Barrows, 1974). Fault-plane solutions for 39 small earthquakes (between 1977 and 1985) show mostly strike-slip faulting with some reverse faulting along the north section (north of Dominguez Hills) and some normal faulting along the south section (south of Dominguez Hills to Newport Beach) (Hauksson, 1987). Investigations by Law/Crandall (1993) in the Huntington Beach area indicate that the North Branch section of the Newport-Inglewood fault zone offsets Holocene age alluvial deposits in the vicinity of the Santa Ana River. An average slip rate of 1.0 mm/yr and a maximum moment magnitude of 7.1 are estimated by the California Geological Survey (Cao et al., 2003; Field et al., 2013) for the Newport-Inglewood fault.

Hollywood Fault

The active Hollywood fault, located 11 miles southeast of the site, trends approximately east-west along the base of the Santa Monica Mountains from the West Beverly Hills Lineament in the West Hollywood-Beverly Hills area (Dolan and Sieh, 1992) to the Los Feliz area of Los Angeles. The Hollywood fault zone is approximately 4.8 miles north of the Project Site. The fault is a groundwater barrier within Holocene sediments (Converse et al., 1981). Studies by several investigators (Dolan et al., 2000b; Dolan et al., 1997; Dolan and Sieh, 1992; and Crook and Proctor, 1992) have indicated that the fault is active, based on geomorphic evidence, stratigraphic correlation between exploratory borings, and fault trenching studies. As of November 6, 2014, the Hollywood fault zone within the Hollywood 7.5 minute quadrangle has been included in an Earthquake Fault Zone by the CGS (CGS, 2014).

Until recently, the approximately 15 kilometer-long Hollywood fault zone was considered to be expressed as a series of linear scarps and faceted south-facing ridges along the south margin of the eastern Santa Monica Mountains and the Hollywood Hills. Multiple recent fault rupture hazard investigations have shown that the Hollywood fault zone is located south of the faceted ridges and bedrock outcrops along Sunset Boulevard (Harza, 1998, William Lettis & Associates, 1998). Active deposition of numerous small alluvial

fans at the mountain front and a lack of fan incision suggest late Quaternary uplift of the Santa Monica Mountains along the Hollywood fault zone (Dolan et al., 2000b, Dolan et al., 1997, Dolan and Seih, 1992, Crook et al., 1983). The fault dips steeply to the north and has juxtaposed Tertiary and Cretaceous age rocks over young sedimentary deposits of the northern Los Angeles basin. The Hollywood fault zone has not produced any damaging earthquakes during the historical period and has had relatively minor micro-seismic activity. An average slip rate of 0.9 mm/yr and a maximum moment magnitude of 6.4 are estimated by the CGS (Cao et al., 2003; Field et al., 2013) for the Hollywood fault.

Anacapa-Dume Fault

The active Anacapa-Dume fault, located approximately 11 miles south of the site, is considered part of the structural front of the Western Transverse Ranges and a continuation of the Raymond, Hollywood, and Santa Monica fault system (Sorlien et al., 2006). According to the USGS and CGS (2006), the active Anacapa-Dume fault extends from the City of Santa Monica westward towards a point offshore 40 km south of Point Dume. Beyond Point Dume, the fault continues west into a complex zone of faulting where the Malibu Coast and Santa Cruz Island faults intersect (Dolan et al., 2000a). Seismicity data from the past 50 years suggest the Anacapa-Dume fault has an oblique-slip geometry with a left-lateral component associated with the clockwise rotation of the Santa Monica Mountains (Sorlien et al., 2006; Dolan et al., 2000a). An average slip rate of 0.4 mm/yr and a maximum moment magnitude of 7.5 are estimated by the CGS (Cao et al., 2003; Field et al., 2013).

Palos Verdes Fault Zone

The closest active splay of the Palos Verdes fault zone is a portion offshore Santa Monica Basin section, located approximately 15 miles to the south-southwest. Its general northwest strike extends 60 miles from southern Santa Monica Bay, south through the Palos Verdes Peninsula, and eventually merging with the Coronado Bank Fault Zone. Even though the fault has been extensively studied, there has not been an overwhelming consensus on its dynamics. Currently, geologic investigations show that there is reverse faulting with a west dip, but that is generally limited to onshore areas and Palos Verdes Hills. The fault has offset marine terrace strata 3,900 feet at these areas implying a right-oblique reverse geometry. Early Pleistocene age San Pedro formation beds are sharply

warped upward along the fault trace but, on land, the fault is not known to cut material younger than middle Pleistocene. Conversely, offshore to the south, the fault cuts Holocene material with right-lateral strike-slip movement (Shaw, 2005). At depth, other researchers have modeled a southwestern dip and significant reverse component that may greatly affect current hazard estimates (Shaw, 2005). An Alquist-Priolo Earthquake Fault Zone has not been established for this fault. However, the fault is considered active by the CGS and local reviewing agencies. According to the CGS (Cao et al., 2003; Field et al., 2013), the Palos Verdes fault is capable of a moment magnitude 7.3 earthquake and has a slip rate of 3.0 mm/yr.

San Gabriel Fault Zone

The active San Gabriel fault zone is located about 15 miles north-northeast of the site. This fault zone extends southeasterly approximately 80 miles from near Bear Mountain in Ventura County to San Antonio Canyon in San Bernardino County (Weber, 1982). Estimates of approximately 6 miles of right lateral displacement of total offset along the fault zone have been made (Weber, 1982). The Saugus-Newhall segment of the San Gabriel fault zone is included within an Alquist-Priolo Earthquake Fault Zone. According to the CGS (Cao et al., 2003; Field et al., 2013), the San Gabriel fault is capable of a moment magnitude 7.2 earthquake and has a slip rate of 0.4 millimeters per year.

Raymond Fault

The Raymond fault located approximately 18 miles east-southeast of the site. The fault is primarily a left-lateral strike-slip fault with a minor component of high-angle reverse offset, placing basement rocks north of the fault over alluvial sediments south of the fault. The Raymond fault has long been recognized as a groundwater barrier in the Pasadena/San Marino area and numerous geomorphic features along its entire length (such as fault scarps, sag ponds, springs, and pressure ridges) attest to the fault's activity during the Holocene epoch (last 11,000 years). Within the last 36,000 to 41,000 years, five to eight separate earthquake events have been recognized along the Raymond fault (Crook et al., 1987, Weaver and Dolan, 2000). The most recent fault movement, based on radiocarbon ages from materials collected in an excavation exposing the fault, occurred sometime between 2,160 ± 105 and 1,630 ± 100 years before present (LeRoy Crandall and

Associates, 1978; Crook et al., 1987; Weaver and Dolan, 2000). An average slip rate of 2.0 mm/yr and a maximum moment magnitude of 6.5 are estimated by the California Geological Survey (Cao et al., 2003; Field et al., 2013) for the Raymond fault.

Sierra Madre Fault Zone

The active Sierra Madre fault is located 18 miles east-northeast of the proposed site. This fault zone borders the southern front of the San Gabriel Mountains and consists of a series of discontinuous reverse faults that separate pre-Tertiary crystalline rocks on the north from Tertiary and Quaternary sedimentary deposits on the south. The various faults exhibit northerly dips from 15 degrees to vertical, with the crystalline rocks thrust upward toward the south over sediments as young as mid-Pleistocene age. The Sierra Madre fault zone extends approximately 50 miles along the southern flank of the San Gabriel Mountains from Big Tujunga Canyon on the west to Cajon Pass on the east. The fault zone, which includes the active Cucamonga fault, consists of a series of reverse fault segments that are believed to have been active at different times in the geologic past (Crook et al., 1987). The moderate M5.8 1991 Sierra Madre earthquake is believed to be a result of movement on a small portion of the Sierra Madre fault zone. Recent paleoseismic investigations by Rubin et al (1998) in Altadena have shown that the Sierra Madre fault fails in large, infrequent earthquakes. The past two ruptures in Altadena produced about 4.5 to 5 m of slip at the ground surface and occurred within the past ~18,000 years. Farther east in San Dimas, Tucker and Dolan (2001) documented the occurrence of two large-slip earthquakes during the period between ~8,000 and ~24,000 years ago. The most recent event on the eastern portion of the Sierra Madre fault zone occurred prior to ~8,000 years ago. The CGS considers the Sierra Madre fault to be capable of a moment magnitude 7.2 earthquake and estimates an annual slip rate of 2 millimeters per year (Cao et al. 2003; Field et al. 2013).

San Andreas Fault Zone

The Mojave section of the active San Andreas fault zone is located about 34 miles north-northeast of the site. This fault zone, California's most prominent geological feature, trends generally northwest for almost the entire length of the state. The 1857 Fort Tejon earthquake was the last major earthquake along the San Andreas fault zone in Southern

California. According to the CGS (Cao et al., 2003; Field et al., 2013), the Mojave section of the San Andreas fault is capable of a magnitude 7.4 (Mw) earthquake and has a slip rate of 34 mm/yr.

Blind Thrust Faults

Several buried thrust faults, commonly referred to as blind thrusts, underlie the Los Angeles Basin at depth. These faults are not exposed at the ground surface and are typically identified at depths greater than 3 kilometers. These faults do not present a potential surface fault rupture hazard. However, the following described blind thrust faults are considered active and potential sources of future earthquakes.

Compton Thrust

The Compton blind thrust has been defined from seismic reflection profiles and borehole data (Leon et al., 2009) as a northeast-dipping structure. The vertical surface projection of the Compton thrust is approximately 4 miles southeast of the site. This blind thrust fault system extends approximately 28 miles from southwest Los Angeles County to northern Orange County in a southeastern direction. Leon et al. (2009) has correlated blind faulting at depth to near-surface folding. Several uplift events have been observed by investigating deformed Holocene layers along buried fold scarps. The cumulative uplift from the observed events ranged from 2 to 6 feet or approximately 4 to 14 feet of thrust displacement with moment magnitudes of 7.0 to 7.4 (Leon et al., 2009). Slip rate is estimated to be 0.9 mm/yr (Field et al., 2013).

Northridge Thrust

The active Northridge Thrust, as defined by Petersen et al. (1996), is a deep thrust fault that is considered the eastern extension of the Oak Ridge fault. The closest point to the surface projection of the Northridge Thrust fault is approximately 4.7 miles north-northeast. The Northridge Thrust is located beneath the majority of the San Fernando Valley and was the causative fault of the January 17, 1994, moment magnitude 6.7 Northridge earthquake. This thrust fault is not exposed at the surface and does not present a potential surface fault rupture hazard. However, the Northridge Thrust is an active feature that can generate future earthquakes. According to the CGS (Cao et al.,

2003; Field et al., 2013), the Northridge Thrust is capable of a moment magnitude 7.0 earthquake and has a slip rate of 1.5 mm/yr.

Puente Hills Blind Thrust

The active Puente Hills Blind Thrust (PHBT) is defined based on seismic reflection profiles, petroleum well data, and precisely located seismicity (Shaw et al., 2002). The closest point to the surface projection of the PHBT is approximately 16 miles east-southeast. This blind thrust extends eastward from downtown Los Angeles to Brea (in northern Orange County). The PHBT includes three north-dipping segments, named from east to west as the Coyote Hills segment, the Santa Fe Springs segment, and the Los Angeles segment. These segments are overlain by folds expressed at the surface as the Coyote Hills, Santa Fe Springs Anticline, and the Montebello Hills. The Santa Fe Springs segment of the PHBT was the causative fault of the October 1, 1987 Whittier Narrows Earthquake (Shaw et al., 2002). Postulated earthquake scenarios for the PHBT include single segment fault ruptures capable of producing an earthquake of moment magnitude 6.5 to 6.6 and a multiple segment fault rupture capable of producing an earthquake of moment magnitude 7.1. The PHBT is not exposed at the ground surface and does not present a potential for surface fault rupture. However, based on deformation of late Quaternary age sediments above this fault system and the occurrence of the Whittier Narrows earthquake, the PHBT is considered an active fault capable of generating future earthquakes beneath the Los Angeles Basin. An average slip rate of 0.9 mm/yr is estimated by the CGS (Cao et al., 2003; Field et al., 2013), for the Puente Hills Blind Thrust.

Upper Elysian Park

The active Upper Elysian Park fault is a blind thrust fault that overlies the Los Angeles and Santa Fe Springs segments of the Puente Hills Thrust (Oskin et al., 2000 and Shaw et al., 2002). The nearest vertical surface projection of the Upper Elysian Park fault is located about 16 miles east-southeast of the site. The eastern edge of the Upper Elysian Park fault is defined by the northwest-trending Whittier fault zone. Like other blind thrust faults in the Los Angeles area, the Upper Elysian Park fault is not exposed at the surface

and does not present a potential surface rupture hazard; however, the Upper Elysian Park fault is considered an active feature capable of generating future earthquakes. An average slip rate of 1.9 mm/yr and a moment magnitude of 6.4 are estimated by the CGS (Cao et al., 2003; Field et al., 2013), for the Upper Elysian Park fault.

Potentially Active Faults

Chatsworth Fault

The closest potentially active fault to the site is the Chatsworth fault located approximately 5 miles north-northwest of the site. The Chatsworth fault is a 12 mile long reverse fault in the western San Fernando Valley. The fault runs northeasterly from Bell Canyon towards Chatsworth. It is north dipping and capable of a moment magnitude 6.0 to 6.8 earthquake (Southern California Earthquake Center, 2017).

Northridge Hills Fault

The potentially active Northridge Hills fault located approximately 6.1 miles north-northeast. The Northridge Hills fault is a reverse fault and its location is based primarily on the numerous oil test holes that have been drilled in the Northridge Hills. Geomorphic evidence, such as scarps in the Pleistocene age alluvial deposits, has been identified on aerial photographs (Weber et al., 1980). A paleoseismic study (Baldwin et al., 2000) found evidence of monoclonal warping of relatively young (early Holocene to late Pleistocene) shallow surficial deposits. Their borehole data suggest that an unconformity developed on the Plio-Pleistocene Saugus Formation is warped into a south-facing monocline with 13 $\pm$ 2 meters of vertical separation. Evidence of surface rupture was not observed. They suggest the fault could be seismogenic, producing earthquakes of moment magnitude 6.0 to 6.4, as well as undergoing secondary deformation during and/or following large magnitude earthquakes on nearby structures, such as the Northridge blind thrust.

Mission Hills Fault

The potentially active Mission Hills fault is a 6.2-mile long reverse fault in the northern San Fernando Valley extending from Pacoima to Granada Hills. It is postulated that the fault has ruptured in the late Quaternary, and possibly as recent as the Holocene. A slip rate of 0.5 mm/yr has been approximated (Southern California Earthquake Center, 2017). The Mission Hills fault is approximately 7.3 miles north-northeast of the site.

5.5 GEOLOGIC-SEISMIC HAZARDS

Fault Rupture

The site is not within a currently established Alquist-Priolo Earthquake Fault Zone for surface fault rupture hazards. The closest active fault to the site with the potential for surface fault rupture is the Simi-Santa Rosa fault zone, which is located approximately 8.3 miles north of the site (Jennings and Bryant, 2010). The closest Alquist-Priolo Earthquake Fault Zone, established for a portion San Fernando fault zone, is located approximately 9 miles northeast of the site (CGS, 2002). Blind thrust faults are not exposed at the ground surface and are typically identified at depths greater than 3 kilometers. Therefore, these faults do not present a potential surface fault rupture hazard.

Based on the available geologic data, active or potentially active faults with the potential for surface fault rupture are not known to be located directly beneath or projecting toward the site. Therefore, the potential for surface rupture due to fault plane displacement propagating to the surface at the site during the design life of the proposed development is considered low.

Seismicity

Earthquake Catalog Data

The seismicity of the region surrounding the site was determined from research of an electronic database of seismic data (Southern California Seismographic Network, 2017). This database includes earthquake data compiled by the California Institute of Technology from 1932 through 2016 and data for 1812 to 1931 compiled by Richter and

the U.S. National Oceanic Atmospheric Administration (NOAA). The search for earthquakes that occurred within 100 kilometers of the site indicates that 479 earthquakes of magnitude 4.0 and greater occurred from 1932 through 2016; 1 earthquake of magnitude 6.0 or greater occurred between 1906 and 1931; and no earthquakes of magnitude 7.0 or greater occurred between 1812 and 1905. A list of these earthquakes is presented as Table 3. Epicenters of moderate and major earthquakes (greater than magnitude 5.0) are shown in Figure 5.

The information for each earthquake includes date and time in Coordinated Universal Time (UTC), location of the epicenter in latitude and longitude, quality of epicentral determination (Q), depth in kilometers, distance from the site in kilometers, and magnitude. Where a depth of 0.0 is given, the solution was based on an assumed 16-kilometer focal depth. The explanation of the letter code for the quality factor of the data is presented on the first page of the table.

Historic Earthquakes

A number of earthquakes of moderate to major magnitude have occurred in the Southern California area within the last 84 years. A partial list of these earthquakes is included in the following table.

List of Historic Earthquakes

Earthquake (Oldest to Youngest)	Date of Earthquake	Magnitude	Distance to Epicenter (miles)	Direction to Epicenter
Long Beach	March 11, 1933	6.4	52	SE
Tehachapi	July 21, 1952	7.5	63	N
San Fernando	February 9, 1971	6.6	19	N
Whittier Narrows	October 1, 1987	5.9	29	SE
Sierra Madre	June 28, 1991	5.8	34	E
Landers	June 28, 1992	7.3	122	ESE
Big Bear	June 28, 1992	6.3	100	E
Northridge	January 17, 1994	6.7	4	NNE
Hector Mine	October 16, 1999	7.1	135	NE
Sierra El Mayor	April 4, 2010	7.2	245	SE
La Habra	March 28, 2014	5.1	41	SE
Borrego Springs	June 10, 2016	5.2	132	SE

The site is located in an area that has historically experienced strong ground shaking as a result of the 1971 San Fernando and the 1994 Northridge Earthquakes and could experience strong ground shaking in the future. However, this hazard is common in Southern California and the effects of ground shaking can be mitigated by proper engineering design and construction in conformance with current building codes and engineering practices.

Slope Stability

The campus is located in an incised section of the Chalk Hills bounded on the northwest and southeast by hilly terrain. The initial grading in 1957 leveled the majority of the site for the original construction of the school, except for the western field area. Therefore, although the site is situated in a County of Los Angeles (1990) and City of Los Angeles designated Hillside Area, the relatively flat-lying topography at the site precludes both stability problems and the potential for lurching (earth movement at right angles to a cliff or steep slope during ground shaking). Furthermore, the south, west and northwest portions of the campus are bounded by slopes identified by the CGS as having a potential for instability during a seismic event as shown on Figure 6, Seismic Hazards Map (CDMG, 1998). The western portion of the campus, currently the baseball fields, was assessed by the CGS before grading using maps of prior topography, therefore the seismic instability designation for that portion of the campus is considered outdated. There are no known landslides within the site, nor is the site in the path of any known or potential landslides (Weber and Wills, 1983). Therefore, the potential for slope instability to affect the proposed development is considered to be low.

Liquefaction and Seismic-Induced Settlement

Liquefaction potential is greatest where the groundwater level is shallow, and submerged loose, fine sands occur within a depth of about 50 feet or less. Liquefaction potential decreases as grain size and clay and gravel content increase. As ground acceleration and shaking duration increase during an earthquake, liquefaction potential increases.

According to the County of Los Angeles General Plan (2017; 2015), the City of Los Angeles (2017), and the California Geological Survey (CDMG, 1998), the majority of the

site is located within an area identified as having a potential for liquefaction as shown on Figure 6, Seismic Hazards Map. CGS documents the historic-high groundwater level in the area as being approximately 10 feet bgs (CDMG, 1997). Groundwater was encountered between the depths of 12 and 30½ feet in our current and prior borings drilled to a maximum depth of 51 feet. The groundwater in the vicinity of the site is limited to localized seepage zones in the upper alluvial deposits and perched above the shallow bedrock. The materials beneath the site are Holocene- to Pleistocene-age alluvial deposits and Miocene-age sedimentary bedrock. The alluvial deposits are confined to the lower portions of the campus, while bedrock is encountered at higher elevations, such as areas cut during initial grading. Based on the geologic age and the dense/clayey nature of the alluvial deposits, and the bedrock, these materials are not considered susceptible to liquefaction. Therefore, the potential for liquefaction, the associated ground deformation, and seismically-induced settlement occurring beneath the site is considered low.

Tsunamis, Inundation, Seiches, and Flooding

The site is not in a coastal area and the grade ranges from Elevation 850 to 880 feet AMSL (County of Los Angeles, 2015). Therefore, tsunamis (seismic sea waves) are not considered a hazard at the site.

According to the City of Los Angeles (1996) and the County of Los Angeles (1990), the site is not located within a potential dam inundation area, and not within a hazard area for seiches (wave oscillations in an enclosed or semi-enclosed body of water). Therefore, the potential for inundation at the site as a result of an earthquake-induced dam failure is considered low.

The site is located outside the 0.2% annual chance floodplain, Zone X, as defined by the Federal Emergency Management Association (FEMA, 2008). Therefore, the potential for flooding to affect the site is considered low.

Subsidence

The site is not within an area of known subsidence associated with fluid withdrawal (groundwater or petroleum), peat oxidation, or hydrocompaction.

Oil Wells

The site is not located within the limits of an active or abandoned oil field according to the Well Finder System of the California Division of Gas and Geothermal Resources (DOGGR, 2017). Active or abandoned oil exploration holes are not known to be located near the site. According to DOGGR, the closest known oil production well is approximately 1½ miles southeast of the site and is categorized as “active”.

Methane Gas

According to the City of Los Angeles (2017), the site is not located within a Methane or Methane Buffer Zone. Therefore, the potential for methane and other volatile gases to occur beneath the site are considered low.

Volcanic Eruption

The site is not located in an area of recent volcanism. Therefore, the potential for volcanic activity is low.

Radon Gas

According to the CGS, the site is located in an area of high potential for indoor radon levels above 4.0 picocuries per liter (CGS, 2005). Therefore, the potential for radon gas accumulation is considered moderate to high. California Department of Public Health (CDPH) and the United States Environmental Protection Agency (EPA) suggest radon resistant building techniques be implemented in areas of moderate to high radon potential.

Naturally Occurring Asbestos

The site is not located in an area of naturally occurring asbestos (CGS, 2011)

5.6 CONCLUSIONS

Based on the available geologic data, active or potentially active faults with the potential for surface fault rupture are not known to be located directly beneath or projecting toward the

site. Therefore, the potential for surface rupture due to fault plane displacement propagating to the surface at the site during the design life of the proposed project is considered low. The site could be subjected to strong ground shaking in the event of an earthquake, this hazard is common in Southern California and the effects of ground shaking can be mitigated by proper engineering design and construction in conformance with current building codes and engineering practices.

The relatively flat-lying topography at the site precludes both stability problems and the potential for lurching (earth movement at right angles to a cliff or steep slope during ground shaking). The site is located in an area of high potential for indoor radon levels above 4.0 picocuries per liter. Therefore, radon resistant building techniques should be implemented in accordance to federal EPA and CDPH recommendations. The potential for other geologic hazards such as liquefaction, seismically-induced settlement, tsunamis, seiches, flooding, asbestos, methane gas, volcanic activity and subsidence affecting the site is considered low.

6.0 RECOMMENDATIONS

6.1 GENERAL

As previously stated, the existing fill soils were likely placed during the general site grading for the initial development of the school campus in 1958 and were likely observed by the Los Angeles Unified School District; however, records documenting the placement and compaction of the existing fill soils are not available. Moreover, the standard of practice for compaction effort at that time would not meet current standards; therefore, existing fill soils within the project areas are not considered suitable for support of new structures on conventional spread/continuous footings. Accordingly, if the existing fill soils are excavated and replaced with properly compacted fill, new structures may be supported on conventional spread/continuous footings established in natural materials and/or properly compacted fill.

As an alternative to excavating and replacing the existing fill soils as properly compacted fill, new buildings could be supported on drilled cast-in-place concrete pile foundations and the lower floor slabs structurally supported.

If the existing fill soils are removed and replaced as properly compacted fill, floor slabs, pavement, and other exterior walks and slabs may be supported on grade. If the risk for some settlement and greater than normal maintenance is acceptable, only the upper 2 feet of existing fill soils need be removed and replaced as properly compacted fill beneath pavement, and exterior walks and slabs. However, after the 2-foot removal is completed, the exposed subgrade should be carefully observed by a representative of our firm to identify any soft areas that may require additional excavation and compaction.

The on-site clayey soils and bedrock are highly expansive and may shrink and swell with fluctuations in moisture content. We recommend that, where encountered, the upper clayey soils be excavated to allow for the placement of at least 2 feet of relatively non-expansive soils beneath floor slabs, pavement, and other exterior concrete walks and slabs on grade. For structurally supported floor slabs, where clayey soils are encountered, either the upper 2 feet of these soils should be removed and replaced with relatively non-expansive soils, as recommended for floor slabs supported on-grade, or the

floor slab should be constructed with a gap of at least 6 inches between the floor slab and the underlying soils. This could be accomplished through the use of compressible cardboard or foam forms.

6.2 FOUNDATIONS

New Shallow Foundations

Bearing Value

If the existing fill soils are excavated and replaced as properly compacted fill soils, new buildings or additions to be constructed at grade may be supported on conventional spread/continuous footings underlain by properly compacted fill and/or undisturbed natural materials. Such footings, carried at least 2 feet below the lowest adjacent grade or floor level, may be designed to impose a net dead-plus-live load pressure of 2,000 pounds per square foot. Footings supporting buildings with a basement level extending at least 10 feet below the adjacent grade and underlain by properly compacted fill and/or undisturbed natural materials may be designed to impose a net dead-plus-live load pressure of 4,000 pounds per square foot.

The excavations should be deepened as necessary to extend into satisfactory soils. A one-third increase may be used for wind or seismic loads. The recommended bearing values are net values, and the weight of concrete in the footings may be taken as 50 pounds per cubic foot; the weight of soil backfill may be neglected when determining the downward loads.

Settlement

Building settlements will depend on the magnitude of the structural loads. However, it is anticipated that the settlement of new structures, supported on spread footings in the manner recommended above, will be on the order of 1 inch or less with differential settlements on the order of ¼ inch.

Lateral Resistance

Lateral loads may be resisted by soil friction and by the passive resistance of the soils. A coefficient of friction of 0.4 may be used between the footings and the floor slab and the supporting soils. The passive resistance of the soils may be assumed to be equal to the pressure developed by a fluid with a density of 300 pounds per cubic foot. A one-third increase in the passive value may be used for wind or seismic loads. The frictional resistance and the passive resistance of the soils may be combined without reduction in determining the total lateral resistance.

New Deep Foundations

Axial Capacity

The downward and upward capacities of 18-, 24-, and 30-inch-diameter drilled cast-in-place concrete piles are presented as a function of penetration into natural soils in Figure 6, Drilled Pile Capacities. Dead-plus-live load capacities are shown; a one-third increase may be used for wind or seismic loads. The capacities are based on the strength of the natural soils; the capacities in the existing fill should be ignored. The compressive and tensile strength of the pile section itself should be checked to verify the structural capacity of the piles.

Piles in groups should be spaced at least 3 shaft diameters on centers. If the piles are so spaced, no reduction in the axial capacity of the piles due to group action need be considered in the design.

Settlement

We estimate the settlement of the proposed structures, supported on drilled pile in the manner recommended, will be on the order of ½ inch or less. Differential settlement between adjacent columns is expected to be about ¼ inch or less.

Lateral Resistance

Lateral loads may be resisted by the piles and by the passive resistance of the soils against pile caps and grade beams. The resistance of the piles and the passive

resistance of the soils against pile caps and grade beams may be combined without reduction in determining the total lateral resistance.

We have computed the lateral capacities of the piles using the computer program LPILE by ENSOFT, Inc. Resistance of the soils adjacent to the 18-, 24-, and 30-inch-diameter drilled piles are shown in the following tables for top of pile deflections of ¼ and ½ inch. These resistances have been calculated assuming free- and fixed-head pile conditions. The minimum pile length may be taken as the length required to reach the depth of zero moment given in the tables below.

Lateral Load Design Data
18-inch-diameter Drilled Concrete Pile

	Pile Head Deflection (inches)			
	¼		½	
Pile Head Condition	**Free**	**Fixed**	**Free**	**Fixed**
Lateral Load (kips)	8	23	17	45
Maximum Moment (inch-kips)	425	1,320	845	2,600
Depth to Maximum Moment (ft)	6½	0	6½	0
Depth to Zero Moment (ft)	19½	21½	19½	21½

Lateral Load Design Data
24-inch-diameter Drilled Concrete Pile

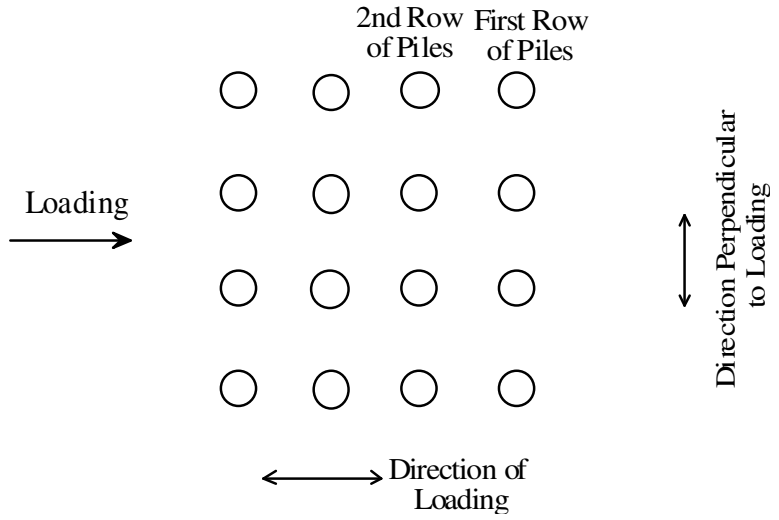
	Pile Head Deflection (inches)			
	¼		½	
Pile Head Condition	**Free**	**Fixed**	**Free**	**Fixed**
Lateral Load (kips)	14	37	28	75
Maximum Moment (inch-kips)	850	2,625	1,695	5,245
Depth to Maximum Moment (ft)	8½	0	8½	0
Depth to Zero Moment (ft)	23½	27½	23½	27½

Lateral Load Design Data
30-inch-diameter Drilled Pile

	Pile Head Deflection (inches)			
	¼		½	
Pile Head Condition	**Free**	**Fixed**	**Free**	**Fixed**
Lateral Load (kips)	20	54	41	108
Maximum Moment (inch-kips)	1,445	4,510	2,890	9,015
Depth to Maximum Moment (ft)	10	0	10	0
Depth to Zero Moment (ft)	28	32	28	32

The preceding lateral capacities have been calculated based on the strength of the soils; the shear and moment capacities of the pile sections should be checked to verify the structural capacity of the piles.

For piles in groups spaced as shown below and at least 3 pile diameters on centers, no reduction in the lateral capacities need be considered for the first (leading) row of piles in the direction perpendicular to loading. For subsequent rows in the direction of loading, piles in groups spaced closer than 8 pile diameters on centers will have a reduction in lateral capacity due to group effects. Therefore, the lateral capacity of piles in groups, except for the first row of piles, spaced at 3 pile diameters on centers, may be assumed to be reduced by half. The reduction of lateral capacity in the direction of loading for other pile spacing may be interpolated.



Where existing fill soils are left in place, friction may not be used between the structurally supported floor slab and the underlying fill soil. The passive resistance of the natural soils, properly compacted fill, or existing fill soils against pile caps and grade beams may be assumed to be equal to the pressure developed by a fluid with a density of 250 pounds per cubic foot. A one-third increase in the passive value may be used when considering wind or seismic loads.

Installation

Because of the likely presence of groundwater, the installation of drilled cast-in-place concrete piling may require the use of drilling mud to reduce caving potential during the drilling and the placing of concrete. Piles spaced less than five diameters on center should be drilled and filled alternately, with the concrete permitted to set at least eight hours before drilling an adjacent hole. Pile excavations should be filled with concrete as soon after drilling and inspection as possible; the holes should not be left open overnight.

Concrete should be pumped from the bottom up through a rigid pipe extending to the bottom of the drilled excavation, with the pipe being slowly withdrawn as the concrete level rises. The discharge end of the pipe should be at least 5 feet below the surface of the concrete at all times during placement. The discharge pipe should be kept full of concrete during the entire placing operation and should not be removed from the concrete until all of the concrete is placed and fresh concrete appears at the top of the pile. The volume of concrete pumped into the hole should be recorded and compared to design volume.

Only competent drilling contractors with experience in the installation of drilled cast-in-place piles in similar soil and groundwater conditions should be considered for the pile construction. We suggest requesting the piling contractor to submit a list of similar projects along with references for each project.

The drilling of the pile excavations and the placing of the concrete should be observed continuously by a representative of our firm to verify that the desired diameter and depth of piles are achieved.

Existing Foundations

Bearing Value

Based on our review of the as-built plans, the existing Administration and Multipurpose Buildings are supported on drilled-and-belled caissons established in the natural materials underlying the site. The existing drilled-and-belled caissons may be analyzed using an allowable net dead-plus-live load pressure of 4,500 pounds per square foot.

A one-third increase may be used for wind or seismic loads. The recommended bearing value is a net value, and the weight of concrete in the footings may be taken as 50 pounds per cubic foot; the weight of soil backfill may be neglected when determining the downward loads.

Settlement

We did not analyze the additional settlement which will occur as the result of the seismic upgrade since the loading information is not available at this time. However, it is anticipated that any new dead-plus-live loads imposed on existing foundations as a result of the proposed seismic upgrade will consist of only the self-weight of the new structural lateral force-resisting elements. Therefore, the additional settlement of existing footings as a result of the proposed seismic upgrade is expected to be relatively minor and within acceptable limits. However, we should be provided with the structural loading when it is available so that we can perform settlement analyses.

Lateral Resistance

Lateral loads may be resisted by friction and by the passive resistance of the soils. A coefficient of friction of 0.4 may be used between the existing foundations and the floor slab and the supporting soils. The passive resistance of the soils may be assumed to be equal to the pressure developed by a fluid with a density of 250 pounds per cubic foot. A one-third increase in the passive value may be used for wind or seismic loads. The frictional resistance and the passive resistance of the soils may be combined without reduction in determining the total lateral resistance.

Ultimate Design Factors

When considering an ultimate design approach, the recommended design values provided in the previous sections may be multiplied by the factors shown on the next page:

Design Item	Ultimate Design Factor
Footing Bearing Value	3.0
Axial Capacity of Piles	2.0
Lateral Capacity of Piles	1.0
Passive Pressure	1.5
Coefficient of Friction	1.5

In no event, however, shall foundation sizes be less than those required for dead-plus-live loads when using the working stress design values.

6.3 SEISMIC DESIGN PARAMETERS

We have determined the seismic design parameters in accordance with the 2016 CBC and ASCE 7-10 Standard (ASCE, 2010) using the United States Geological Survey (USGS) Seismic Design Maps Web Application. The CBC Site Class was determined to be Site Class "C" based on the results of our explorations and a review of the local soil and geologic conditions. The mapped seismic parameters are presented in the following table:

Parameter	Mapped Value
S_S (0.2 second period, Site Class B)	1.99g
S_1 (1.0 second period, Site Class B)	0.71g
Site Class	C
F_a	1.0
F_v	1.3
$S_{MS} = F_aS_S$ (0.2 second period)	1.99g
$S_{M1} = F_vS_1$ (1.0 second period)	0.92g
$S_{DS} = 2/3 \times S_{MS}$ (0.2 second period)	1.33g
$S_{D1} = 2/3 \times S_{M1}$ (1.0 second period)	0.61g

By: LH 5/26/17, Checked By: MM 5/31/17

In addition, we have determined the seismic design parameters in accordance with the requirements of ASCE 41-13 Standard using the United States Geological Survey (USGS) Seismic Design Maps Web Application. The mapped seismic parameters are presented in the following table.

Parameter	Mapped Value			
	BSE-1E	BSE-2E	BSE-1N	BSE-2N
S_S (0.2 second period, Site Class B)	0.78g	1.42g	1.99g	1.99g
S_1 (1.0 second period, Site Class B)	0.28g	0.50g	0.71g	0.71g
Site Class	C	C	C	C
F_a	1.09	1.0	1.0	1.0
F_v	1.52	1.3	1.3	1.3
$S_{XS} = F_aS_S$ (0.2 second period)	0.85g	1.42g	1.33g	1.99g
$S_{X1} = F_vS_1$ (1.0 second period)	0.42g	0.65g	0.61g	0.92g

By: LH 5/26/17, Checked By: MM 5/31/17

6.4 FLOOR SLAB SUPPORT

If existing fill soils are removed and replaced as properly compacted fill and the subgrade is prepared as recommended in the following section on grading, the building floor slabs may be supported on grade. However, if existing fill soils are left in place and the structure is supported on drilled cast-in-place concrete pile foundations, the floor slab should be structurally supported.

Construction activities and exposure to the environment can cause deterioration of the prepared subgrade. Therefore, we recommend that our field representative observe the condition of the final subgrade soils immediately prior to slab-on-grade construction, and, if necessary, perform further density and moisture content tests to determine the suitability of the final prepared subgrade.

If vinyl or other moisture-sensitive floor covering is planned, we recommend that the floor slab in those areas be underlain by a capillary break consisting of a vapor-retarding membrane over a 4-inch-thick layer of gravel. A 2-inch-thick layer of sand should be

placed between the gravel and the membrane to decrease the possibility of damage to the membrane. We suggest the following gradation for the gravel:

Sieve Size	Percent Passing
¾″	90–100
No. 4	0–10
No. 100	0–3

Measures to reduce concrete shrinkage, such as the use of a low-slump concrete (i.e. less than 2 inches), should be implemented in order to minimize possible curling of the slab. A 2-inch-thick layer of coarse sand (having a Sand Equivalent of at least 30) should be placed over the vapor retarding membrane to reduce slab curling. If this sand bedding is used, care should be taken during the placement of the concrete to prevent displacement of the sand. The concrete slab should be allowed to cure properly before placing vinyl or other moisture-sensitive floor covering. The sand and gravel layers should not be considered part of the recommended non-expansive soil layer under concrete slabs.

6.5 TEMPORARY SHORING

General

Where there is not sufficient space for sloped embankments, shoring will be required. One method of shoring would consist of steel soldier piles placed in drilled holes and backfilled with concrete. Some difficulty should be anticipated in the drilling of the soldier piles because of caving in the interbedded sandy deposits, which were encountered in some of our exploration borings, particularly where groundwater seepage is also encountered. Special techniques and measures will be necessary in some areas to permit the proper installation of the soldier piles. As an alternative to installing steel soldier piles in drilled holes, the soldier piles may be installed by vibration or driving. Based on the anticipated depth of excavation, cantilevered soldier piles are anticipated to be sufficient; however, should deeper excavations be required, tie-back anchors or internal bracing may be required. We can provide recommendations for design of such shoring elements should they become necessary.

The following information on the design and installation of the shoring is as complete as possible at this time. We can furnish any additional required data as the design progresses. Also, we suggest that our firm review the final shoring plans and specifications prior to bidding or negotiating with a shoring contractor.

Lateral Pressures

For design of cantilevered shoring, a triangular distribution of lateral earth pressure may be used. It may be assumed that the retained soils with a level surface behind the cantilevered shoring will exert a lateral pressure equal to that developed by a fluid with a density of 30 pounds per cubic foot. Where a combination of sloped embankment and shoring is used, the pressure would be greater and must be determined for each combination.

In addition to the recommended earth pressure, the upper 10 feet of shoring adjacent to the streets or traffic areas should be designed to resist a uniform lateral pressure of 100 pounds per square foot, acting as a result of an assumed 300 pounds per square foot surcharge behind the shoring due to normal traffic. If the traffic is kept back at least 10 feet from the shoring, the traffic surcharge may be neglected. The shoring system should also be designed to support the lateral surcharge pressures imposed by the foundations of adjacent structures. In addition, the shoring system should be designed to support the lateral surcharge pressures imposed by concrete trucks and other heavy construction equipment to be placed near the shoring system.

Design of Soldier Piles

For the design of soldier piles spaced at least two diameters on centers, the allowable lateral bearing value (passive value) of the soils below the level of excavation may be assumed to be 500 pounds per square foot per foot of depth at the excavated surface, up to a maximum of 5,000 pounds per square foot. To develop the full lateral value, provisions should be taken to assure firm contact between the soldier piles and the undisturbed soils. The concrete placed in the soldier pile excavations may be a lean-mix concrete. However, the concrete used in that portion of the soldier pile which is below the

planned excavated level should be of sufficient strength to adequately transfer the imposed loads to the surrounding soils.

Lagging

Continuous lagging will be required between the soldier piles. The soldier piles and anchors should be designed for the full anticipated lateral pressure. However, the pressure on the lagging will be less due to arching in the soils. For clear spans of up to 6 feet, we recommend that the lagging be designed for a semi-circular distribution of earth pressure where the maximum pressure is 400 pounds per square foot at the mid-line between soldier piles, and 0 pounds per square foot at the soldier piles.

Deflection

The deflection of a cantilevered shoring system may be estimated by the shoring engineer. If greater than the estimated deflection occurs during construction, additional bracing may be necessary to minimize settlement of any adjacent structures. If desired to reduce the deflection of the shoring, a greater active pressure could be used in the shoring design.

Monitoring

Some means of monitoring the performance of the shoring system is recommended. The monitoring should consist of periodic surveying of the lateral and vertical locations of the tops of all the soldier piles. We will be pleased to discuss this further with you and the design consultants when the design of the shoring system has been finalized.

6.6 RETAINING WALLS AND WALLS BELOW GRADE

General

It is anticipated that any retaining walls and walls below grade planned for the project will be less than approximately 10 feet in height. Recommendations regarding the design of such retaining walls and walls below grade are presented below.

Lateral Earth Pressure

For design of cantilevered retaining walls, where the surface of the backfill is level, it may be assumed that drained soils will exert a lateral pressure equal to that developed by a fluid with a density of 30 pounds per cubic foot. Retaining wall and free-standing wall foundations should be designed in accordance with the recommendations for new foundations in Section 6.2.

For design of braced walls below grade, such as basement walls and/or elevator pit walls, the CBC requires that at-rest earth pressures be used. Accordingly, it may be assumed that drained soils will exert an at-rest lateral pressure equal to that developed by a fluid with a density of 55 pounds per cubic foot.

In addition to the earth pressures recommended above, walls adjacent to areas subject to vehicular traffic should be designed to resist a uniform lateral pressure of 100 pounds per square foot, acting as a result of an assumed 300 pounds per square foot surcharge behind the walls due to normal vehicular traffic. If the traffic is kept back at least 10 feet (or a distance equal to the height of the wall, whichever is less) from the walls, the traffic surcharge may be neglected. In addition, walls should be design to resist any applicable surcharges due to foundation or storage loads.

Seismic Lateral Earth Pressure

Based on the anticipated wall height, the general cohesive nature of the on-site materials, and the design level of ground shaking, it is our opinion that the seismic lateral earth pressures will be negligible.

Drainage

Retaining walls and walls below grade should be properly drained. Drainage behind basement walls may be provided by vertical strips of a geosynthetic drainage composite. In our opinion, Miradrain 6000 (or the equivalent), attached to the back of the wall before backfilling, would provide satisfactory drainage. The Miradrain strips may be placed at a depth starting at about 3 feet below the existing grade. The strips should be at least 4 feet

wide and placed 8 feet on centers. The Miradrain should be continuous within the lower 4 feet of the wall.

The Miradrain should be connected to a 6-inch-diameter perforated discharge pipe. The discharge pipes should be connected to a drainage system.

Free standing retaining walls should be designed to resist hydrostatic pressures or be provided with a drain pipe or weepholes. The drain could consist of a 4-inch-diameter perforated pipe placed with perforations down at the base of the wall. The pipe should be sloped at least 2 inches in 100 feet and surrounded by filter gravel. The crushed rock or gravel should have less than 5% passing a No. 200 sieve.

Retaining walls and walls below grade should be waterproofed.

6.7 PAVING

To provide support for paving, the subgrade soils should be prepared as recommended in the following section on grading. Compaction of the subgrade, including trench backfills, to at least 90%, and achieving a firm, hard, and unyielding surface will be important for paving support. The preparation of the paving area subgrade should be done immediately prior to placement of the base course. Proper drainage of the paved areas should be provided since this will reduce moisture infiltration into the subgrade and increase the life of the paving.

To provide data for design of asphalt paving, the R-value of a sample of the upper soils was determined. The test results, which indicate R-values of 7 and 10, are presented in Appendix A. The paving sections presented below are also suitable to support emergency vehicle traffic.

Asphalt Concrete Paving

The required paving and base thicknesses will depend on the expected wheel loads and volume of traffic (Traffic Index or TI). Assuming that the paving subgrade will consist of at least 2 feet of relatively non-expansive soils compacted to at least 90% as recommended, the minimum recommended paving thicknesses are presented in the following table.

Assumed Traffic Index	Asphalt Concrete (Inches)	Base Course (Inches)
4	3	4
5	3	4
6	4	4½
7	4	7

The asphalt paving sections were determined using the Caltrans design method. We can determine the recommended paving and base course thicknesses for other Traffic Indices if required. Careful inspection is recommended to verify that the recommended thicknesses or greater are achieved, and that proper construction procedures are followed.

Portland Cement Concrete Paving

Portland cement concrete paving sections were determined in accordance with procedures developed by the Portland Cement Association. Concrete paving sections for a range of Traffic Indices are presented in the following table. We have assumed that the portland cement concrete will have a compressive strength of at least 3,000 pounds per square inch.

Assumed Traffic Index	Concrete Paving (Inches)	Base Course (Inches)
4	6½	4
5	7	4
6	7	4
7	7½	4

The paving should be provided with joints at regular intervals no more than 15 feet in each direction. Load transfer devices, such as dowels or keys, are recommended at joints in the paving to reduce possible offsets. The paving sections in the above table have been developed based on the strength of unreinforced concrete. Steel reinforcing may be added to the paving to reduce cracking and to prolong the life of the paving.

Base Course

The base course should conform to requirements of Section 26 of State of California Department of Transportation Standard Specifications (Caltrans), latest edition, or meet

the specifications for untreated base as defined in Section 200-2 of the latest edition of the Standard Specifications for Public Works Construction (Green Book). The base course should be compacted to at least 95% of the maximum dry density obtainable by the ASTM Designation D1557 method of compaction.

6.8 FIELD PERCOLATION TESTING

Test Preparation

Three borings (Borings P-1 through P-3) were drilled at the locations shown on Figure 2 for the purpose of percolation testing at depths between 1 to 6 feet below existing grade. All three borings were drilled using 8-inch diameter hollow-stem-auger drilling equipment.

Test Setup

Our percolation testing was intended to be performed in general accordance with the "Boring Percolation Test Procedure" outlined in the County of Los Angeles Department of Public Works "Guidelines for Design, Investigation, and Reporting Low Impact Development Stormwater Infiltration."

For each test, the test setup was as follows:

- Drilling a boring to the depths of approximately 6 feet below existing grade;
- Installing a 2-inch diameter perforated pipe with a solid end cap surrounded by well-draining sand;
- Placing No. 3 sand in the annular space between the perforated pipe and the sidewall of the borehole.
- Direct water from the surface into the test zone from top of the perforated pipe.

Test Results

As previously stated, the tests were performed in accordance with guidelines provided by the County of Los Angeles. The infiltration rates obtained from the tests are presented in

the table below. The test-specific correction factor, CF_t, has been included in the test results below; no other correction factors have been applied.

Boring No.	Test Zone (feet)	Infiltration Rate (inches per hour)
P-1	1-6	<0.01
P-2	1-6	<0.01
P-3	1-6	<0.01

Conclusions

The results of our percolation tests indicate that infiltration is not feasible within the soil layers tested due to the low infiltration rates obtained.

6.9 GRADING

If the existing fill soils are removed and replaced as properly compacted fill, the proposed structure may be supported on conventional spread/continuous footings and floor slabs, pavement, and other exterior walks and slabs may be supported on grade. If the risk for some settlement and greater than normal maintenance is acceptable, only the upper 2 feet of existing fill soils need be removed and replaced as properly compacted fill beneath pavement and exterior walks and slabs. However, after the 2-foot removal is completed, the exposed subgrade should be carefully observed by a representative of our firm to identify any soft areas that may require additional excavation and compaction.

The on-site clayey soils and bedrock are highly expansive and may shrink and swell with fluctuations in moisture content. We recommend that, where encountered, the upper clayey soils be excavated to allow for the placement of at least 2 feet of relatively non-expansive soils beneath floor slabs, pavement, and other exterior concrete walks and slabs on grade. For structurally supported floor slabs, where clayey soils are encountered, either the upper 2 feet of these soils should be removed and replaced with relatively non-expansive soils, as recommended for floor slabs supported on-grade, or the floor slab should be constructed with a gap of at least 6 inches between the floor slab and the underlying soils. This could be accomplished through the use of compressible cardboard or foam forms.

The excavation of existing fill soils should extend laterally beyond foundations a distance equal to the depth of removal beneath the foundation; the excavation need not extend laterally beyond floor slabs, pavement, and other exterior concrete walks and slabs. All required fill should be uniformly well compacted and observed and tested during placement. The on-site soils may be used in any required fill, except as noted herein. Any concrete, steel, and other construction materials and debris from previous construction on the site should be removed prior to grading.

Site Preparation

After the site is cleared and any existing fill soils are excavated as recommended, the exposed soils should be carefully observed for the removal of all unsuitable deposits. Next, the exposed soils should be scarified to a depth of 6 inches, brought to near-optimum moisture content (by either adding water or by drying out the soils), and rolled with heavy compaction equipment. At least the upper 6 inches of the exposed soils should be compacted to at least 90% of the maximum dry density obtainable by the ASTM Designation D1557 method of compaction. The moisture content of some of the natural clayey material currently exceeds the optimum moisture content. Accordingly, this material may be wet and spongy when exposed to construction activities and be difficult to compact; this situation will be even more critical if the excavation is performed during the rainy season. In these areas, to provide a working base for men and equipment, a layer of 1½-inch crushed rock, 12 inches or more in thickness, may be necessary over the excavated surface.

Good drainage of surface water should be provided by adequately sloping all surfaces. Such drainage will be important to minimize infiltration of water beneath floor slabs and pavement.

Excavations and Temporary Slopes

Where excavations are deeper than about 4 feet, the sides of the excavations should be sloped back at 1:1 (horizontal:vertical) or shored for safety. Unshored excavations should not extend below a plane drawn at 1½:1 (horizontal to vertical) extending downward from

adjacent existing footings. Recommendations for design of temporary shoring are presented in Section 6.5 of this report.

Excavations should be observed by personnel of our firm so that any necessary modifications based on variations in the soil conditions can be made. All applicable safety requirements and regulations, including OSHA regulations, should be met.

Compaction

The required fill should be placed in loose lifts not more than 8-inches-thick and compacted. The fill should be compacted to at least 90% of the maximum density obtainable by the ASTM Designation D1557 method of compaction. The moisture content of the on-site soils at the time of compaction should vary no more than 2% below or above optimum moisture content.

Backfill

All required backfill should be mechanically compacted in layers; flooding should not be permitted. Bedding material within utility pipe zones should have a minimum Sand Equivalent of 30. The pipe-zone backfill may be compacted by vibration, or, as alternative, the pipe-zone may be backfilled with 1½-sack sand-cement slurry. However, beneath foundations, slurry should contain at least 3 sacks of cement per cubic yard.

Proper compaction of backfill will be necessary to minimize settlement of the backfill and to reduce settlement of overlying slabs and paving. Backfill should be compacted to at least 90% of the maximum dry density obtainable by the ASTM Designation D1557 method of compaction. The exterior grades should be sloped to drain away from the foundations to prevent ponding of water.

Some settlement of the backfill should be expected, and any utilities supported therein should be designed to accept differential settlement, particularly at the points of entry to the buildings. Also, provisions should be made for some settlement of concrete walks supported on backfill.

Material for Fill

The on-site soils, less any debris or organic matter, may be used in required fills. However, because of their expansive characteristics, the on-site clayey soils should not be used within 2 feet of the subgrade for floor slabs, pavement, or other exterior concrete walks and slabs. The on-site clayey soils may be used beneath structurally supported floor slabs if they are constructed with a gap of at least 6 inches between the floor slab and the underlying soils. Cobbles or concrete fragments larger than 4 inches in diameter should not be used in the fill. Any required import material should consist of relatively non-expansive soils with an expansion index of less than 35. The imported materials should contain sufficient fines (at least 15% passing the No. 200 sieve) so as to be relatively impermeable and result in a stable subgrade when compacted. All proposed import materials should be approved by our personnel prior to being placed at the site.

6.10 GEOTECHNICAL OBSERVATION

The reworking of the upper soils and the compaction of all required fill should be observed and tested during placement by a representative of our firm. Our representative should perform at least the following duties:

- Observe the clearing and grubbing operations for proper removal of all unsuitable materials.
- Observe the exposed subgrade in areas to receive fill and in areas where excavation has resulted in the desired finished subgrade. The representative should also observe proofrolling and delineation of areas requiring overexcavation.
- Evaluate the suitability of on-site and import soils for fill placement; collect and submit soil samples for required or recommended laboratory testing where necessary.
- Observe the fill and backfill for uniformity during placement.
- Test backfill for field density and compaction to determine the percentage of compaction achieved during backfill placement.
- Observe and probe foundation materials to confirm that suitable bearing materials are present at the design foundation depths.

- Observe the installation of drilled cast-in-place concrete pile foundations, if used, to confirm that the design diameters and depths are achieved.

The governmental agencies having jurisdiction over the project should be notified prior to commencement of grading so that the necessary grading permits can be obtained and arrangements can be made for required inspection(s). The contractor should be familiar with the inspection requirements of the reviewing agencies.

7.0 BASIS FOR RECOMMENDATIONS

The recommendations provided in this report are based upon our understanding of the described project information and on our interpretation of the data collected during our current and previous subsurface explorations and investigations performed by another firm. We have made our recommendations based upon experience with similar subsurface conditions under similar loading conditions. The recommendations apply to the specific project discussed in this report; therefore, any change in the structure configuration, loads, location, or the site grades should be provided to us so that we can review our conclusions and recommendations and make any necessary modifications.

The recommendations provided in this report are also based upon the assumption that the necessary geotechnical observations and testing during construction will be performed by representatives of our firm. The field observation services are considered a continuation of the geotechnical services and essential to verify that the actual soil conditions are as expected. This also provides for the procedure whereby the client can be advised of unexpected or changed conditions that would require modifications of our original recommendations. In addition, the presence of our representative at the site provides the client with an independent professional opinion regarding the geotechnically-related construction procedures. If another firm is retained for the geotechnical observation services, our professional responsibility and liability would be limited to the extent that we would not be the geotechnical engineer of record.

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TABLES

Table 1
Major Named Faults Considered to be Active in Southern California

Fault (in increasing distance)	Maximum Magnitude (Mw)	Fault Geometry	Slip Rate (mm/yr.)	Sources	Distance From Site (miles)	Direction From Site
Compton Thrust	6.8	BT	0.9	(a)	4.0*	SE
Northridge Thrust	7.0	BT	1.5	(a,c)	4.7*	NNE
Simi-Santa Rosa	7.0	RO	0.7	(a)	8.3	N
Santa Susana	6.7	RO	6.0	(a)	8.8	NNE
San Fernando	6.7	RO	2.0	(a)	9.1	NE
Unnamed Possible Fault in North Hollywood	NA	NA	NA	(d)	9.1	E
Santa Monica	6.6	RO	1.0	(a)	9.4	SSW
Malibu Coast	6.7	RO	0.3	(a)	10	SW
Verdugo	6.9	RO	0.4	(a)	11	ENE
Newport-Inglewood Zone	7.1	SS	1.0	(a)	11	SE
Hollywood	6.4	RO	0.9	(a)	11	SE
Anacapa-Dume	7.5	RO	0.4	(a)	11	S
Palos Verdes (S.M. Basin Section)	7.3	SS	3.0	(a)	15	SSW
San Gabriel	7.2	SS	0.4	(a)	15	NNE
Puente Hills Thrust	7.1	BT	0.9	(a,c)	16*	ESE
Upper Elysian Park Thrust	6.4	RO	1.9	(a,c)	16*	ESE
Holser	6.5	RO	0.4	(a)	17	NNE
Raymond	6.5	RO	2.0	(a)	18	ESE
Sierra Madre	7.2	RO	2.0	(a)	18	ENE
Oak Ridge	7.0	RO	4.0	(a)	19	NNW
Clamshell-Sawpit	6.5	RO	0.4	(a)	31	E
Whittier	6.8	SS	2.5	(a)	32	ESE
San Andreas (Mojave S. Section)	7.4	SS	34.0	(a)	34	NNE
San Joaquin Hills Thrust	6.6	BT	0.6	(a,c)	49*	SE

(a) Cao et al., 2003; Field et al., 2013
(b) Southern California Earthquake Center, 2016
(c) Working Group on California Earthquake Probabilities, 2017
(d) Jennings and Bryant, 2010; USGS/CGS, 2006
SS Strike Slip
NO Normal Oblique
RO Reverse Oblique
BT Blind Thrust
(*) Distance from thrust fault surface projection

Prepared by: PER 5//15/17
Checked by: PJE 5/15/17

Table 2
Major Named Faults Considered to be Potentially Active in Southern California

Fault (in increasing distance)	Maximum Magnitude (Mw)	Fault Geometry	Slip Rate (mm/yr.)	Sources	Distance From Site (miles)	Direction From Site
Chatsworth	6.0-6.8	RO	n/a	(b)	5.0	NNW
Northridge Hills	n/a	RO	1.3	(a)	6.1	NNE
Mission Hills	n/a	SS	n/a	(c)	7.3	NNE
Overland Avenue	n/a	RO	n/a	(a)	13	SE
Charnock	6.4	RO	0.4	(a)	15	SSE

(a) Cao et al., 2003; Field et al., 2013
(b) Mark, 1977
(c) Working Group on California Earthquake Probabilities, 2017
SS Strike Slip
NO Normal Oblique
RO Reverse Oblique
BT Blind Thrust
n/a No Data

Prepared by: PER 5/15/17
Checked by: PJE 5/15/17

Table 3
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
03-11-1933	01:54:07	33.62 N	117.97 W	A	83	.0	6.4
03-11-1933	02:04:00	33.75 N	118.08 W	C	65	.0	4.9
03-11-1933	02:05:00	33.75 N	118.08 W	C	65	.0	4.3
03-11-1933	02:09:00	33.75 N	118.08 W	C	65	.0	5.0
03-11-1933	02:10:00	33.75 N	118.08 W	C	65	.0	4.6
03-11-1933	02:11:00	33.75 N	118.08 W	C	65	.0	4.4
03-11-1933	02:16:00	33.75 N	118.08 W	C	65	.0	4.8
03-11-1933	02:17:00	33.60 N	118.00 W	E	82	.0	4.5
03-11-1933	02:22:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	02:27:00	33.75 N	118.08 W	C	65	.0	4.6
03-11-1933	02:30:00	33.75 N	118.08 W	C	65	.0	5.1
03-11-1933	02:31:00	33.60 N	118.00 W	E	82	.0	4.4
03-11-1933	02:52:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	02:57:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	02:58:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	02:59:00	33.75 N	118.08 W	C	65	.0	4.6
03-11-1933	03:05:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	03:09:00	33.75 N	118.08 W	C	65	.0	4.4
03-11-1933	03:11:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	03:23:00	33.75 N	118.08 W	C	65	.0	5.0
03-11-1933	03:36:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	03:39:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	03:47:00	33.75 N	118.08 W	C	65	.0	4.1
03-11-1933	04:36:00	33.75 N	118.08 W	C	65	.0	4.6
03-11-1933	04:39:00	33.75 N	118.08 W	C	65	.0	4.9
03-11-1933	04:40:00	33.75 N	118.08 W	C	65	.0	4.7
03-11-1933	05:10:22	33.70 N	118.07 W	C	70	.0	5.1
03-11-1933	05:13:00	33.75 N	118.08 W	C	65	.0	4.7
03-11-1933	05:15:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	05:18:04	33.58 N	117.98 W	C	85	.0	5.2
03-11-1933	05:21:00	33.75 N	118.08 W	C	65	.0	4.4
03-11-1933	05:24:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	05:53:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	05:55:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	06:11:00	33.75 N	118.08 W	C	65	.0	4.4

NOTE: Q IS A FACTOR RELATING THE QUALITY OF EPICENTRAL DETERMINATION

A = +- 1 km horizontal distance; +- 2 km depth
B = +- 2 km horizontal distance; +- 5 km depth
C = +- 5 km horizontal distance; no depth restriction
D = >+- 5 km horizontal distance

Event qualities are highly suspect prior to 1990. Many of these event qualities are based on incomplete information according to Caltech.

Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
03-11-1933	06:18:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	06:29:00	33.85 N	118.27 W	C	45	.0	4.4
03-11-1933	06:35:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	06:58:03	33.68 N	118.05 W	C	72	.0	5.5
03-11-1933	07:51:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	07:59:00	33.75 N	118.08 W	C	65	.0	4.1
03-11-1933	08:08:00	33.75 N	118.08 W	C	65	.0	4.5
03-11-1933	08:32:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	08:37:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	08:54:57	33.70 N	118.07 W	C	70	.0	5.1
03-11-1933	09:10:00	33.75 N	118.08 W	C	65	.0	5.1
03-11-1933	09:11:00	33.75 N	118.08 W	C	65	.0	4.4
03-11-1933	09:26:00	33.75 N	118.08 W	C	65	.0	4.1
03-11-1933	10:25:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	10:45:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	11:00:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	11:04:00	33.75 N	118.13 W	C	62	.0	4.6
03-11-1933	11:29:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	11:38:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	11:41:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	11:47:00	33.75 N	118.08 W	C	65	.0	4.4
03-11-1933	12:50:00	33.68 N	118.05 W	C	72	.0	4.4
03-11-1933	13:50:00	33.73 N	118.10 W	C	65	.0	4.4
03-11-1933	13:57:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	14:25:00	33.85 N	118.27 W	C	45	.0	5.0
03-11-1933	14:47:00	33.73 N	118.10 W	C	65	.0	4.4
03-11-1933	14:57:00	33.88 N	118.32 W	C	39	.0	4.9
03-11-1933	15:09:00	33.73 N	118.10 W	C	65	.0	4.4
03-11-1933	15:47:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	16:53:00	33.75 N	118.08 W	C	65	.0	4.8
03-11-1933	19:44:00	33.75 N	118.08 W	C	65	.0	4.0
03-11-1933	19:56:00	33.75 N	118.08 W	C	65	.0	4.2
03-11-1933	22:00:00	33.75 N	118.08 W	C	65	.0	4.4
03-11-1933	22:31:00	33.75 N	118.08 W	C	65	.0	4.4
03-11-1933	22:32:00	33.75 N	118.08 W	C	65	.0	4.1

NOTE: Q IS A FACTOR RELATING THE QUALITY OF EPICENTRAL DETERMINATION

A = +- 1 km horizontal distance; +- 2 km depth
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D = >+- 5 km horizontal distance

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
03-11-1933	22:40:00	33.75 N	118.08 W	C	65	.0	4.4
03-11-1933	23:05:00	33.75 N	118.08 W	C	65	.0	4.2
03-12-1933	00:27:00	33.75 N	118.08 W	C	65	.0	4.4
03-12-1933	00:34:00	33.75 N	118.08 W	C	65	.0	4.0
03-12-1933	04:48:00	33.75 N	118.08 W	C	65	.0	4.0
03-12-1933	05:46:00	33.75 N	118.08 W	C	65	.0	4.4
03-12-1933	06:01:00	33.75 N	118.08 W	C	65	.0	4.2
03-12-1933	06:16:00	33.75 N	118.08 W	C	65	.0	4.6
03-12-1933	07:40:00	33.75 N	118.08 W	C	65	.0	4.2
03-12-1933	08:35:00	33.75 N	118.08 W	C	65	.0	4.2
03-12-1933	15:02:00	33.75 N	118.08 W	C	65	.0	4.2
03-12-1933	16:51:00	33.75 N	118.08 W	C	65	.0	4.0
03-12-1933	17:38:00	33.75 N	118.08 W	C	65	.0	4.5
03-12-1933	18:25:00	33.75 N	118.08 W	C	65	.0	4.1
03-12-1933	21:28:00	33.75 N	118.08 W	C	65	.0	4.1
03-12-1933	23:54:00	33.75 N	118.08 W	C	65	.0	4.5
03-13-1933	03:43:00	33.75 N	118.08 W	C	65	.0	4.1
03-13-1933	04:32:00	33.75 N	118.08 W	C	65	.0	4.7
03-13-1933	06:17:00	33.75 N	118.08 W	C	65	.0	4.0
03-13-1933	13:18:28	33.75 N	118.08 W	C	65	.0	5.3
03-13-1933	15:32:00	33.75 N	118.08 W	C	65	.0	4.1
03-13-1933	19:29:00	33.75 N	118.08 W	C	65	.0	4.2
03-14-1933	00:36:00	33.75 N	118.08 W	C	65	.0	4.2
03-14-1933	12:19:00	33.75 N	118.08 W	C	65	.0	4.5
03-14-1933	19:01:50	33.62 N	118.02 W	C	80	.0	5.1
03-14-1933	22:42:00	33.75 N	118.08 W	C	65	.0	4.1
03-15-1933	02:08:00	33.75 N	118.08 W	C	65	.0	4.1
03-15-1933	04:32:00	33.75 N	118.08 W	C	65	.0	4.1
03-15-1933	05:40:00	33.75 N	118.08 W	C	65	.0	4.2
03-15-1933	11:13:32	33.62 N	118.02 W	C	80	.0	4.9
03-16-1933	14:56:00	33.75 N	118.08 W	C	65	.0	4.0
03-16-1933	15:29:00	33.75 N	118.08 W	C	65	.0	4.2
03-16-1933	15:30:00	33.75 N	118.08 W	C	65	.0	4.1
03-17-1933	16:51:00	33.75 N	118.08 W	C	65	.0	4.1
03-18-1933	20:52:00	33.75 N	118.08 W	C	65	.0	4.2

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
03-19-1933	21:23:00	33.75 N	118.08 W	C	65	.0	4.2
03-20-1933	13:58:00	33.75 N	118.08 W	C	65	.0	4.1
03-21-1933	03:26:00	33.75 N	118.08 W	C	65	.0	4.1
03-23-1933	08:40:00	33.75 N	118.08 W	C	65	.0	4.1
03-23-1933	18:31:00	33.75 N	118.08 W	C	65	.0	4.1
03-25-1933	13:46:00	33.75 N	118.08 W	C	65	.0	4.1
03-30-1933	12:25:00	33.75 N	118.08 W	C	65	.0	4.4
03-31-1933	10:49:00	33.75 N	118.08 W	C	65	.0	4.1
04-01-1933	06:42:00	33.75 N	118.08 W	C	65	.0	4.2
04-02-1933	08:00:00	33.75 N	118.08 W	C	65	.0	4.0
04-02-1933	15:36:00	33.75 N	118.08 W	C	65	.0	4.0
05-16-1933	20:58:55	33.75 N	118.17 W	C	60	.0	4.0
08-04-1933	04:17:48	33.75 N	118.18 W	C	59	.0	4.0
10-02-1933	09:10:17	33.78 N	118.13 W	A	59	.0	5.4
10-02-1933	13:26:01	33.62 N	118.02 W	C	80	.0	4.0
10-25-1933	07:00:46	33.95 N	118.13 W	C	47	.0	4.3
11-13-1933	21:28:00	33.87 N	118.20 W	C	48	.0	4.0
11-20-1933	10:32:00	33.78 N	118.13 W	B	59	.0	4.0
01-09-1934	14:10:00	34.10 N	117.68 W	A	82	.0	4.5
01-18-1934	02:14:00	34.10 N	117.68 W	A	82	.0	4.0
01-20-1934	21:17:00	33.62 N	118.12 W	B	74	.0	4.5
04-17-1934	18:33:00	33.57 N	117.98 W	C	86	.0	4.0
10-17-1934	09:38:00	33.63 N	118.40 W	B	62	.0	4.0
11-16-1934	21:26:00	33.75 N	118.00 W	B	70	.0	4.0
06-11-1935	18:10:00	34.72 N	118.97 W	B	71	.0	4.0
07-13-1935	10:54:16	34.20 N	117.90 W	A	62	.0	4.7
12-25-1935	17:15:00	33.60 N	118.02 W	B	81	.0	4.5
08-22-1936	05:21:00	33.77 N	117.82 W	B	83	.0	4.0
10-29-1936	22:35:36	34.38 N	118.62 W	C	24	10.0	4.0
11-29-1936	05:54:45	34.84 N	118.99 W	A	83	10.0	4.0
01-15-1937	18:35:47	33.56 N	118.06 W	B	82	10.0	4.0
07-07-1937	11:12:00	33.57 N	117.98 W	B	86	.0	4.0
09-01-1937	13:48:08	34.21 N	117.53 W	A	96	10.0	4.5
09-01-1937	16:35:33	34.18 N	117.55 W	A	94	10.0	4.5
05-21-1938	09:44:00	33.62 N	118.03 W	B	79	.0	4.0

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
08-31-1938	03:18:14	33.76 N	118.25 W	A	54	10.0	4.5
10-02-1938	18:45:00	34.33 N	119.58 W	C	95	.0	4.0
11-29-1938	19:21:15	33.90 N	118.43 W	A	32	10.0	4.0
12-07-1938	03:38:00	34.00 N	118.42 W	B	24	.0	4.0
12-27-1938	10:09:28	34.13 N	117.52 W	B	97	10.0	4.0
02-23-1939	08:45:51	34.91 N	118.97 W	A	90	10.0	4.5
02-23-1939	09:18:46	34.89 N	119.00 W	A	89	10.0	4.5
03-07-1939	19:53:31	34.84 N	119.03 W	A	86	10.0	4.0
05-08-1939	02:48:05	34.90 N	119.04 W	A	92	10.0	4.5
11-04-1939	21:41:00	33.77 N	118.12 W	B	61	.0	4.0
12-27-1939	19:28:49	33.78 N	118.20 W	A	55	.0	4.7
01-13-1940	07:49:07	33.78 N	118.13 W	B	59	.0	4.0
02-08-1940	16:56:17	33.70 N	118.07 W	B	70	.0	4.0
02-11-1940	19:24:10	33.98 N	118.30 W	B	32	.0	4.0
05-18-1940	09:15:12	34.60 N	118.90 W	C	57	.0	4.0
07-20-1940	04:01:13	33.70 N	118.07 W	B	70	.0	4.0
10-11-1940	05:57:12	33.77 N	118.45 W	A	46	.0	4.7
10-12-1940	00:24:00	33.78 N	118.42 W	B	45	.0	4.0
10-14-1940	20:51:11	33.78 N	118.42 W	B	45	.0	4.0
11-01-1940	07:25:03	33.78 N	118.42 W	B	45	.0	4.0
11-01-1940	20:00:46	33.63 N	118.20 W	B	69	.0	4.0
11-02-1940	02:58:26	33.78 N	118.42 W	B	45	.0	4.0
01-30-1941	01:34:46	33.97 N	118.05 W	A	53	.0	4.1
03-22-1941	08:22:40	33.52 N	118.10 W	B	84	.0	4.0
04-11-1941	01:20:24	33.95 N	117.58 W	B	94	.0	4.0
07-01-1941	07:50:54	34.37 N	119.58 W	A	96	.0	5.5
07-01-1941	08:19:00	34.33 N	119.58 W	B	95	.0	4.0
07-01-1941	08:21:00	34.33 N	119.58 W	B	95	.0	4.0
07-01-1941	08:30:00	34.33 N	119.58 W	B	95	.0	4.0
07-01-1941	08:48:00	34.33 N	119.58 W	B	95	.0	4.0
07-01-1941	08:58:00	34.33 N	119.58 W	B	95	.0	4.0
07-01-1941	09:05:00	34.33 N	119.58 W	B	95	.0	4.0
07-01-1941	09:45:00	34.33 N	119.58 W	B	95	.0	4.0
07-01-1941	10:25:00	34.33 N	119.58 W	B	95	.0	4.0
07-01-1941	18:20:00	34.33 N	119.58 W	B	95	.0	4.0

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
07-01-1941	23:54:00	34.33 N	119.58 W	B	95	.0	4.5
07-02-1941	22:19:00	34.33 N	119.58 W	B	95	.0	4.0
07-03-1941	19:26:00	34.33 N	119.58 W	B	95	.0	4.0
07-12-1941	16:18:00	34.33 N	119.58 W	B	95	.0	4.5
09-08-1941	03:12:45	34.33 N	119.58 W	B	95	.0	4.5
09-08-1941	03:14:23	34.33 N	119.58 W	B	95	.0	4.0
09-14-1941	01:45:18	34.33 N	119.58 W	B	95	.0	4.0
09-15-1941	01:37:02	34.33 N	119.58 W	B	95	.0	4.0
09-21-1941	19:53:07	34.87 N	118.93 W	A	84	.0	5.1
09-25-1941	05:12:56	34.33 N	119.58 W	B	95	.0	4.0
10-22-1941	06:57:18	33.82 N	118.22 W	A	51	.0	4.8
11-14-1941	08:41:36	33.78 N	118.25 W	A	52	.0	4.8
11-18-1941	18:08:10	34.33 N	119.58 W	C	95	.0	4.0
11-21-1941	16:56:03	34.33 N	119.58 W	C	95	.0	4.0
04-16-1942	07:28:33	33.37 N	118.15 W	C	97	.0	4.0
09-03-1942	14:06:01	34.48 N	118.98 W	C	52	.0	4.5
09-04-1942	06:34:33	34.48 N	118.98 W	C	52	.0	4.5
04-06-1943	22:36:24	34.68 N	119.00 W	C	69	.0	4.0
04-12-1944	15:33:10	34.27 N	119.52 W	C	88	.0	4.0
06-19-1944	00:03:33	33.87 N	118.22 W	B	47	.0	4.5
06-19-1944	03:06:07	33.87 N	118.22 W	C	47	.0	4.4
02-24-1946	06:07:52	34.40 N	117.80 W	C	76	.0	4.1
06-01-1946	11:06:31	34.42 N	118.83 W	C	37	.0	4.1
03-01-1948	08:12:13	34.17 N	117.53 W	B	96	.0	4.7
04-16-1948	22:26:24	34.02 N	118.97 W	B	40	.0	4.7
10-03-1948	02:46:28	34.18 N	117.58 W	A	91	.0	4.0
01-11-1950	21:41:35	33.94 N	118.20 W	A	42	.4	4.1
01-24-1950	21:56:59	34.67 N	118.83 W	C	60	.0	4.0
02-26-1950	00:06:22	34.62 N	119.08 W	C	68	.0	4.7
08-22-1950	22:47:58	34.15 N	119.35 W	B	72	.0	4.2
02-10-1952	13:50:55	33.58 N	119.18 W	C	86	.0	4.0
07-21-1952	12:19:36	34.95 N	118.87 W	A	91	.0	5.3
07-21-1952	21:53:09	34.87 N	119.02 W	A	88	.0	4.3
07-21-1952	23:53:28	34.98 N	119.03 W	A	100	.0	4.5
07-22-1952	07:44:55	34.87 N	118.87 W	A	82	.0	4.1

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
07-22-1952	14:30:18	34.90 N	119.05 W	A	92	.0	4.3
07-23-1952	07:53:19	35.00 N	118.83 W	A	95	.0	5.4
07-23-1952	18:13:51	35.00 N	118.83 W	A	95	.0	5.2
07-23-1952	23:51:36	35.07 N	118.62 W	A	100	.0	4.0
07-24-1952	09:50:32	34.98 N	118.90 W	A	95	.0	4.3
07-30-1952	11:02:55	34.97 N	118.95 W	A	95	.0	4.1
08-01-1952	13:04:30	34.90 N	118.95 W	A	88	.0	5.1
08-20-1952	08:47:47	34.88 N	119.03 W	A	90	.0	4.2
08-23-1952	06:03:03	35.00 N	118.73 W	A	93	.0	4.3
08-23-1952	10:09:07	34.52 N	118.20 W	A	52	13.1	5.1
09-02-1952	20:45:56	34.97 N	119.00 W	A	97	.0	4.7
10-16-1952	12:22:07	34.95 N	118.95 W	A	93	.0	4.3
11-11-1952	18:12:25	34.95 N	119.02 W	A	96	.0	4.1
11-27-1952	15:36:41	34.97 N	118.95 W	A	95	.0	4.0
12-01-1952	05:26:10	35.00 N	118.83 W	A	95	.0	4.4
03-23-1953	17:06:37	34.98 N	118.90 W	A	95	.0	4.0
04-29-1953	12:47:45	35.00 N	118.73 W	A	93	.0	4.7
10-07-1953	14:59:21	35.03 N	118.85 W	A	99	.0	4.9
02-10-1954	23:58:38	34.93 N	119.07 W	A	96	.0	4.5
05-23-1954	23:52:43	34.98 N	118.98 W	A	98	.0	5.1
08-26-1954	13:48:03	33.92 N	119.50 W	B	90	.0	4.7
11-17-1954	23:03:51	34.50 N	119.12 W	B	62	.0	4.4
01-15-1955	01:03:06	34.93 N	118.97 W	A	92	9.1	4.3
05-29-1955	16:43:35	33.99 N	119.06 W	B	49	17.4	4.1
02-07-1956	02:16:56	34.53 N	118.64 W	B	40	16.0	4.2
02-07-1956	03:16:38	34.59 N	118.61 W	A	46	2.6	4.6
03-25-1956	03:32:02	33.60 N	119.11 W	A	80	8.2	4.2
03-18-1957	18:56:28	34.12 N	119.22 W	B	60	13.8	4.7
01-11-1958	23:08:47	34.84 N	119.24 W	A	97	10.8	4.0
07-14-1958	05:25:55	34.35 N	119.49 W	A	87	16.0	4.7
10-04-1961	02:21:31	33.85 N	117.75 W	B	83	4.3	4.1
10-20-1961	19:49:50	33.65 N	117.99 W	B	78	4.6	4.3
10-20-1961	20:07:14	33.66 N	117.98 W	B	79	6.1	4.0
10-20-1961	21:42:40	33.67 N	117.98 W	B	78	7.2	4.0
10-20-1961	22:35:34	33.67 N	118.01 W	B	76	5.6	4.1

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
11-15-1961	05:38:55	34.94 N	118.99 W	B	94	10.7	4.9
11-20-1961	08:53:34	33.68 N	117.99 W	B	76	4.4	4.0
01-09-1963	06:04:03	34.92 N	119.10 W	B	97	8.7	4.0
03-01-1963	00:25:57	34.93 N	118.98 W	B	92	13.9	4.5
03-04-1963	20:10:42	34.95 N	118.97 W	B	93	8.5	4.0
09-14-1963	03:51:16	33.54 N	118.34 W	B	73	2.2	4.2
08-30-1964	22:57:37	34.27 N	118.44 W	B	16	15.4	4.0
01-01-1965	08:04:18	34.14 N	117.52 W	B	97	5.9	4.4
07-16-1965	07:46:22	34.49 N	118.52 W	B	35	15.1	4.0
01-08-1967	07:37:30	33.63 N	118.47 W	B	60	11.4	4.0
01-08-1967	07:38:05	33.66 N	118.41 W	C	58	17.7	4.0
06-15-1967	04:58:05	34.00 N	117.97 W	B	58	10.0	4.1
06-29-1968	06:33:20	34.18 N	119.65 W	B	99	8.4	4.0
06-29-1968	19:13:57	34.27 N	119.57 W	C	92	10.0	4.4
06-29-1968	20:36:33	34.24 N	119.59 W	B	94	1.8	4.0
07-08-1968	09:18:37	34.25 N	119.63 W	B	98	15.7	4.0
07-31-1968	22:44:45	34.25 N	119.61 W	A	97	15.0	4.0
02-28-1969	04:56:12	34.57 N	118.11 W	A	61	5.3	4.3
05-05-1969	16:02:09	34.30 N	117.57 W	B	94	8.8	4.4
10-27-1969	13:16:02	33.55 N	117.81 W	B	99	6.5	4.5
10-31-1969	10:39:28	33.43 N	119.10 W	B	95	7.3	4.7
09-12-1970	14:10:11	34.27 N	117.52 W	A	98	8.0	4.1
09-12-1970	14:30:52	34.27 N	117.54 W	A	96	8.0	5.2
09-13-1970	04:47:48	34.28 N	117.55 W	A	95	8.0	4.4
02-09-1971	14:00:41	34.41 N	118.40 W	B	31	8.4	6.6
02-09-1971	14:01:08	34.41 N	118.40 W	D	31	8.0	5.8
02-09-1971	14:01:33	34.41 N	118.40 W	D	31	8.0	4.2
02-09-1971	14:01:40	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:01:50	34.41 N	118.40 W	D	31	8.0	4.5
02-09-1971	14:01:54	34.41 N	118.40 W	D	31	8.0	4.2
02-09-1971	14:01:59	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:02:03	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:02:30	34.41 N	118.40 W	D	31	8.0	4.3
02-09-1971	14:02:31	34.41 N	118.40 W	D	31	8.0	4.7
02-09-1971	14:02:44	34.41 N	118.40 W	D	31	8.0	5.8

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
02-09-1971	14:03:25	34.41 N	118.40 W	D	31	8.0	4.4
02-09-1971	14:03:46	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:04:07	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:04:34	34.41 N	118.40 W	C	31	8.0	4.2
02-09-1971	14:04:39	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:04:44	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:04:46	34.41 N	118.40 W	D	31	8.0	4.2
02-09-1971	14:05:41	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:05:50	34.41 N	118.40 W	D	31	8.0	4.1
02-09-1971	14:07:10	34.41 N	118.40 W	D	31	8.0	4.0
02-09-1971	14:07:30	34.41 N	118.40 W	D	31	8.0	4.0
02-09-1971	14:07:45	34.41 N	118.40 W	D	31	8.0	4.5
02-09-1971	14:08:04	34.41 N	118.40 W	D	31	8.0	4.0
02-09-1971	14:08:07	34.41 N	118.40 W	D	31	8.0	4.2
02-09-1971	14:08:38	34.41 N	118.40 W	D	31	8.0	4.5
02-09-1971	14:08:53	34.41 N	118.40 W	D	31	8.0	4.6
02-09-1971	14:10:21	34.36 N	118.31 W	B	32	5.0	4.7
02-09-1971	14:10:28	34.41 N	118.40 W	D	31	8.0	5.3
02-09-1971	14:16:12	34.34 N	118.33 W	C	29	11.1	4.1
02-09-1971	14:19:50	34.36 N	118.41 W	B	26	11.8	4.0
02-09-1971	14:34:36	34.34 N	118.64 W	C	20	-2.0	4.9
02-09-1971	14:39:17	34.39 N	118.36 W	C	31	-1.6	4.0
02-09-1971	14:40:17	34.43 N	118.40 W	C	33	-2.0	4.1
02-09-1971	14:43:46	34.31 N	118.45 W	B	19	6.2	5.2
02-09-1971	15:58:20	34.33 N	118.33 W	B	29	14.2	4.8
02-09-1971	16:19:26	34.46 N	118.43 W	B	35	-1.0	4.2
02-10-1971	03:12:12	34.37 N	118.30 W	B	33	.8	4.0
02-10-1971	05:06:36	34.41 N	118.33 W	A	35	4.7	4.3
02-10-1971	05:18:07	34.43 N	118.41 W	A	32	5.8	4.5
02-10-1971	11:31:34	34.38 N	118.46 W	A	26	6.0	4.2
02-10-1971	13:49:53	34.40 N	118.42 W	A	29	9.7	4.3
02-10-1971	14:35:26	34.36 N	118.49 W	A	23	4.4	4.2
02-10-1971	17:38:55	34.40 N	118.37 W	A	31	6.2	4.2
02-10-1971	18:54:41	34.45 N	118.44 W	A	33	8.1	4.2
02-21-1971	05:50:52	34.40 N	118.44 W	A	28	6.9	4.7

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
02-21-1971	07:15:11	34.39 N	118.43 W	A	28	7.2	4.5
03-07-1971	01:33:40	34.35 N	118.46 W	A	23	3.3	4.5
03-25-1971	22:54:09	34.36 N	118.47 W	A	23	4.6	4.2
03-30-1971	08:54:43	34.30 N	118.46 W	A	17	2.6	4.1
03-31-1971	14:52:22	34.29 N	118.51 W	A	14	2.1	4.6
04-01-1971	15:03:03	34.43 N	118.41 W	A	32	8.0	4.1
04-02-1971	05:40:25	34.28 N	118.53 W	A	13	3.0	4.0
04-15-1971	11:14:32	34.26 N	118.58 W	B	11	4.2	4.2
04-25-1971	14:48:06	34.37 N	118.31 W	B	32	-2.0	4.0
06-21-1971	16:01:08	34.27 N	118.53 W	B	12	4.1	4.0
07-27-1972	00:31:17	34.78 N	118.90 W	A	75	8.0	4.4
02-21-1973	14:45:57	34.06 N	119.04 W	B	44	8.0	5.3
08-06-1973	23:29:16	33.99 N	119.48 W	A	86	16.9	5.0
03-09-1974	00:54:31	34.40 N	118.47 W	C	27	24.4	4.7
08-14-1974	14:45:55	34.43 N	118.37 W	A	35	8.2	4.2
01-01-1976	17:20:12	33.97 N	117.89 W	A	67	6.2	4.2
04-08-1976	15:21:38	34.35 N	118.66 W	A	21	14.5	4.6
08-12-1977	02:19:26	34.38 N	118.46 W	B	26	9.5	4.5
09-24-1977	21:28:24	34.46 N	118.41 W	C	36	5.0	4.2
05-23-1978	09:16:50	33.91 N	119.17 W	C	62	6.0	4.0
01-01-1979	23:14:38	33.94 N	118.68 W	B	27	11.3	5.2
10-17-1979	20:52:37	33.93 N	118.67 W	C	28	5.5	4.2
10-19-1979	12:22:37	34.21 N	117.53 W	B	96	4.9	4.1
09-04-1981	15:50:50	33.65 N	119.09 W	C	75	6.0	5.5
10-23-1981	17:28:17	33.64 N	119.01 W	C	71	6.0	4.6
10-23-1981	19:15:52	33.62 N	119.02 W	A	74	14.8	4.6
04-13-1982	11:02:12	34.06 N	118.97 W	A	39	12.1	4.0
05-25-1982	13:44:30	33.55 N	118.21 W	A	77	12.6	4.3
02-27-1984	10:18:15	33.47 N	118.06 W	C	91	6.0	4.0
06-12-1984	00:27:52	34.54 N	118.99 W	A	56	11.7	4.1
10-26-1984	17:20:43	34.02 N	118.99 W	A	42	13.3	4.6
04-03-1985	04:04:50	34.38 N	119.04 W	A	49	24.9	4.0
10-01-1987	14:42:20	34.06 N	118.08 W	A	47	9.5	5.9
10-01-1987	14:45:41	34.05 N	118.10 W	A	45	13.6	4.7
10-01-1987	14:48:03	34.08 N	118.09 W	A	46	11.7	4.1

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(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
10-01-1987	14:49:05	34.06 N	118.10 W	A	45	11.7	4.7
10-01-1987	15:12:31	34.05 N	118.09 W	A	46	10.8	4.7
10-01-1987	15:59:53	34.05 N	118.09 W	A	47	10.4	4.0
10-04-1987	10:59:38	34.07 N	118.10 W	A	45	8.3	5.3
10-24-1987	23:58:33	33.68 N	119.06 W	A	71	12.2	4.1
02-11-1988	15:25:55	34.08 N	118.05 W	A	49	12.5	4.7
03-23-1988	08:42:46	34.25 N	119.62 W	A	97	17.6	4.0
06-10-1988	23:06:43	34.94 N	118.74 W	A	87	6.8	5.4
06-26-1988	15:04:58	34.14 N	117.71 W	A	80	7.9	4.7
11-20-1988	05:39:28	33.51 N	118.07 W	C	87	6.0	4.9
12-03-1988	11:38:26	34.15 N	118.13 W	A	41	14.3	5.0
01-19-1989	06:53:28	33.92 N	118.63 W	A	28	11.9	5.0
02-18-1989	07:17:04	34.01 N	117.74 W	A	79	3.3	4.1
03-29-1989	09:29:49	34.91 N	118.99 W	A	91	14.3	4.3
04-07-1989	20:07:30	33.62 N	117.90 W	A	87	12.9	4.7
06-12-1989	16:57:18	34.03 N	118.18 W	A	39	15.6	4.6
06-12-1989	17:22:25	34.02 N	118.18 W	A	40	15.5	4.4
02-28-1990	23:43:36	34.14 N	117.70 W	A	81	4.5	5.4
03-01-1990	00:34:57	34.13 N	117.70 W	A	80	4.4	4.0
03-01-1990	03:23:03	34.15 N	117.72 W	A	79	11.4	4.7
03-02-1990	17:26:25	34.15 N	117.69 W	A	81	5.6	4.7
04-17-1990	22:32:27	34.11 N	117.72 W	A	79	3.6	4.8
06-28-1991	14:43:54	34.27 N	117.99 W	A	54	9.1	5.8
06-28-1991	17:00:55	34.25 N	117.99 W	A	54	9.5	4.3
07-05-1991	17:41:57	34.50 N	118.56 W	A	36	10.9	4.1
01-17-1994	12:30:55	34.21 N	118.54 W	A	6	18.4	6.7
01-17-1994	12:30:55	34.22 N	118.54 W	A	6	17.4	6.6
01-17-1994	12:31:58	34.27 N	118.49 W	C	14	6.0	5.9
01-17-1994	12:34:18	34.31 N	118.47 W	C	18	6.0	4.4
01-17-1994	12:39:39	34.26 N	118.54 W	C	11	6.0	4.9
01-17-1994	12:40:09	34.32 N	118.51 W	C	18	6.0	4.8
01-17-1994	12:40:36	34.34 N	118.61 W	C	19	6.0	5.2
01-17-1994	12:54:33	34.31 N	118.46 W	C	18	6.0	4.0
01-17-1994	12:55:46	34.28 N	118.58 W	C	12	6.0	4.1
01-17-1994	13:06:28	34.25 N	118.55 W	C	9	6.0	4.6

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(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
01-17-1994	13:26:45	34.32 N	118.46 W	C	20	6.0	4.7
01-17-1994	13:28:13	34.27 N	118.58 W	C	11	6.0	4.0
01-17-1994	13:56:02	34.29 N	118.62 W	C	14	6.0	4.4
01-17-1994	14:14:30	34.33 N	118.44 W	C	21	6.0	4.5
01-17-1994	15:07:03	34.30 N	118.47 W	A	17	2.6	4.2
01-17-1994	15:07:35	34.31 N	118.47 W	A	18	1.6	4.1
01-17-1994	15:54:10	34.38 N	118.63 W	A	23	13.0	4.8
01-17-1994	17:56:08	34.23 N	118.57 W	A	6	19.2	4.6
01-17-1994	19:35:34	34.31 N	118.46 W	A	19	2.3	4.0
01-17-1994	19:43:53	34.37 N	118.64 W	A	23	13.9	4.1
01-17-1994	20:46:02	34.30 N	118.57 W	C	15	6.0	4.9
01-17-1994	22:31:53	34.34 N	118.44 W	C	22	6.0	4.1
01-17-1994	23:33:30	34.33 N	118.70 W	A	21	9.8	5.6
01-17-1994	23:49:25	34.34 N	118.67 W	A	21	8.4	4.0
01-18-1994	00:39:35	34.38 N	118.56 W	A	23	7.2	4.4
01-18-1994	00:40:04	34.39 N	118.54 W	A	25	.0	4.2
01-18-1994	00:43:08	34.38 N	118.70 W	A	26	11.3	5.2
01-18-1994	04:01:26	34.36 N	118.62 W	A	21	.9	4.3
01-18-1994	07:23:56	34.33 N	118.62 W	A	19	14.8	4.0
01-18-1994	11:35:09	34.22 N	118.61 W	A	6	12.1	4.2
01-18-1994	13:24:44	34.32 N	118.56 W	A	17	1.7	4.3
01-18-1994	15:23:46	34.38 N	118.56 W	A	23	7.7	4.8
01-19-1994	04:40:48	34.36 N	118.57 W	A	21	2.6	4.3
01-19-1994	04:43:14	34.37 N	118.71 W	C	25	6.0	4.0
01-19-1994	09:13:10	34.30 N	118.74 W	A	21	13.0	4.1
01-19-1994	14:09:14	34.22 N	118.51 W	A	8	17.5	4.5
01-19-1994	21:09:28	34.38 N	118.71 W	A	27	14.4	5.1
01-19-1994	21:11:44	34.38 N	118.62 W	A	24	11.4	5.1
01-21-1994	18:39:15	34.30 N	118.47 W	A	18	10.6	4.5
01-21-1994	18:39:47	34.30 N	118.48 W	A	16	11.9	4.0
01-21-1994	18:42:28	34.31 N	118.47 W	A	18	7.9	4.2
01-21-1994	18:52:44	34.30 N	118.45 W	A	18	7.6	4.3
01-21-1994	18:53:44	34.30 N	118.46 W	A	18	7.7	4.3
01-23-1994	08:55:08	34.30 N	118.43 W	A	20	6.0	4.1
01-24-1994	04:15:18	34.35 N	118.55 W	A	20	6.5	4.6

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(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
01-24-1994	05:50:24	34.36 N	118.63 W	A	22	12.1	4.3
01-24-1994	05:54:21	34.36 N	118.63 W	A	22	10.9	4.2
01-27-1994	17:19:58	34.27 N	118.56 W	A	12	14.9	4.6
01-28-1994	20:09:53	34.38 N	118.49 W	A	24	.7	4.2
01-29-1994	11:20:35	34.31 N	118.58 W	A	15	1.1	5.1
01-29-1994	12:16:56	34.28 N	118.61 W	A	13	2.7	4.3
02-03-1994	16:23:35	34.30 N	118.44 W	A	19	9.0	4.0
02-05-1994	08:51:29	34.37 N	118.65 W	A	23	15.4	4.0
02-06-1994	13:19:27	34.29 N	118.48 W	A	16	9.3	4.1
02-25-1994	12:59:12	34.36 N	118.48 W	A	22	1.2	4.0
03-20-1994	21:20:12	34.23 N	118.47 W	A	11	13.1	5.2
05-25-1994	12:56:57	34.31 N	118.39 W	A	23	7.0	4.4
06-15-1994	05:59:48	34.31 N	118.40 W	A	22	7.4	4.1
12-06-1994	03:48:34	34.29 N	118.39 W	A	22	9.0	4.5
02-19-1995	21:24:18	34.05 N	118.92 W	A	34	15.6	4.3
06-26-1995	08:40:28	34.39 N	118.67 W	A	26	13.3	5.0
03-20-1996	07:37:59	34.36 N	118.61 W	A	22	13.0	4.1
05-01-1996	19:49:56	34.35 N	118.70 W	A	24	14.4	4.1
10-23-1996	22:09:29	34.48 N	119.35 W	A	80	14.5	4.2
04-26-1997	10:37:30	34.37 N	118.67 W	A	24	16.5	5.1
04-26-1997	10:40:29	34.37 N	118.67 W	A	25	14.6	4.0
04-27-1997	11:09:28	34.38 N	118.65 W	A	24	15.2	4.8
01-05-1998	18:14:06	33.95 N	117.71 W	A	83	11.5	4.3
08-20-1998	23:49:58	34.37 N	117.65 W	A	88	9.0	4.4
07-22-1999	09:57:24	34.40 N	118.61 W	A	25	11.6	4.0
03-07-2000	00:20:28	33.81 N	117.72 W	A	89	11.3	4.0
12-24-2000	01:04:21	34.92 N	119.02 W	A	93	13.9	4.4
01-14-2001	02:26:14	34.28 N	118.40 W	A	20	8.8	4.3
01-14-2001	02:50:53	34.29 N	118.40 W	A	20	8.4	4.0
09-09-2001	23:59:18	34.06 N	118.39 W	A	21	7.9	4.2
10-28-2001	16:27:45	33.92 N	118.27 W	A	39	21.1	4.0
12-14-2001	12:01:35	33.95 N	117.75 W	A	80	13.8	4.0
01-29-2002	05:53:28	34.36 N	118.66 W	A	23	14.1	4.2
03-16-2002	21:33:23	33.67 N	119.33 W	C	90	7.0	4.6
09-03-2002	07:08:51	33.92 N	117.78 W	A	79	12.9	4.8

NOTE: Q IS A FACTOR RELATING THE QUALITY OF EPICENTRAL DETERMINATION

A = +- 1 km horizontal distance; +- 2 km depth
B = +- 2 km horizontal distance; +- 5 km depth
C = +- 5 km horizontal distance; no depth restriction
D = >+- 5 km horizontal distance

Event qualities are highly suspect prior to 1990. Many of these event qualities are based on incomplete information according to Caltech.

Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
07-24-2004	12:55:19	34.38 N	119.44 W	A	83	3.6	4.3
08-09-2007	07:58:49	34.30 N	118.06 W	A	49	7.6	4.7
10-16-2007	08:53:44	34.38 N	117.64 W	A	90	8.1	4.2
07-29-2008	18:42:15	33.95 N	117.76 W	A	78	14.7	5.4
04-24-2009	03:27:50	33.89 N	117.79 W	A	78	4.2	4.0
05-02-2009	01:11:13	34.07 N	118.88 W	A	31	14.2	4.4
05-08-2009	20:27:13	34.44 N	119.18 W	A	64	7.6	4.2
05-18-2009	03:39:36	33.94 N	118.34 W	A	34	13.9	4.7
05-19-2009	22:49:11	33.93 N	118.33 W	A	34	12.8	4.0
03-16-2010	11:04:00	33.99 N	118.08 W	A	49	18.9	4.4
08-24-2010	05:42:17	33.51 N	119.03 W	A	84	16.9	4.0
09-01-2011	20:47:08	34.34 N	118.47 W	A	21	7.3	4.2
05-30-2012	05:14:00	33.69 N	119.06 W	A	69	16.4	4.0
06-14-2012	03:17:15	33.91 N	117.79 W	A	78	9.8	4.0
08-08-2012	06:23:34	33.90 N	117.79 W	A	78	10.1	4.5
08-08-2012	16:33:22	33.90 N	117.79 W	A	78	10.4	4.5
08-29-2012	20:31:00	33.91 N	117.79 W	A	78	9.2	4.1
05-15-2013	20:00:06	33.66 N	118.37 W	A	60	1.2	4.1
03-17-2014	13:25:36	34.13 N	118.49 W	A	9	9.5	4.4
03-29-2014	04:09:42	33.93 N	117.92 W	A	66	4.8	5.1
03-29-2014	21:32:45	33.96 N	117.89 W	A	67	9.4	4.1
06-02-2014	02:36:43	34.10 N	118.49 W	A	11	4.4	4.2
01-04-2015	03:18:09	34.62 N	118.63 W	A	50	7.8	4.3
03-12-2016	08:42:40	34.52 N	119.07 W	A	61	19.3	4.1

NOTE: Q IS A FACTOR RELATING THE QUALITY OF EPICENTRAL DETERMINATION

A = +- 1 km horizontal distance; +- 2 km depth
B = +- 2 km horizontal distance; +- 5 km depth
C = +- 5 km horizontal distance; no depth restriction
D = >+- 5 km horizontal distance

Event qualities are highly suspect prior to 1990. Many of these event qualities are based on incomplete information according to Caltech.

Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

S E A R C H O F E A R T H Q U A K E D A T A F I L E 1

SITE: Taft High School

COORDINATES OF SITE	34.1695 N 118.5713 W
DISTANCE PER DEGREE	110.9 KM-N 92.2 KM-W
MAGNITUDE LIMITS	4.0 - 8.5
TEMPORAL LIMITS	1932 - 2016
SEARCH RADIUS (KM)	100
NUMBER OF YEARS OF DATA	85.00
NUMBER OF EARTHQUAKES IN FILE	4629
NUMBER OF EARTHQUAKES IN AREA	479

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(RICHTER DATA 1906-1931)

DATE	TIME	LATITUDE	LONGITUDE	Q	DIST	DEPTH	MAGNITUDE
10-23-1916	02:44:00	34.90 N	118.90 W	D	87	.0	6.0

S E A R C H O F E A R T H Q U A K E D A T A F I L E 2

SITE: Taft High School

COORDINATES OF SITE ..... 34.1695 N 118.5713 W

DISTANCE PER DEGREE ..... 110.9 KM-N 92.2 KM-W

MAGNITUDE LIMITS ..... 6.0 - 8.5

TEMPORAL LIMITS ..... 1906 - 1931

SEARCH RADIUS (KM) 100

NUMBER OF YEARS OF DATA 26.00

NUMBER OF EARTHQUAKES IN FILE 35

NUMBER OF EARTHQUAKES IN AREA 1

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site
(CAL TECH DATA 1932-2016)

S E A R C H O F E A R T H Q U A K E D A T A F I L E 3

SITE: Taft High School

COORDINATES OF SITE	34.1695 N	118.5713 W
DISTANCE PER DEGREE	110.9 KM-N	92.2 KM-W
MAGNITUDE LIMITS	7.0 - 8.5	
TEMPORAL LIMITS	1812 - 1905	
SEARCH RADIUS (KM)	100	
NUMBER OF YEARS OF DATA	94.00	
NUMBER OF EARTHQUAKES IN FILE	9	
NUMBER OF EARTHQUAKES IN AREA	0	

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Table 3 - continued
List of Historic Earthquakes of Magnitude 4.0 or Greater Within 100 Km of the Site

S U M M A R Y O F E A R T H Q U A K E S E A R C H

* * *

NUMBER OF HISTORIC EARTHQUAKES WITHIN 100 KM RADIUS OF SITE

MAGNITUDE RANGE	NUMBER
4.0 - 4.5	320
4.5 - 5.0	107
5.0 - 5.5	39
5.5 - 6.0	9
6.0 - 6.5	2
6.5 - 7.0	3
7.0 - 7.5	0
7.5 - 8.0	0
8.0 - 8.5	0

* * *

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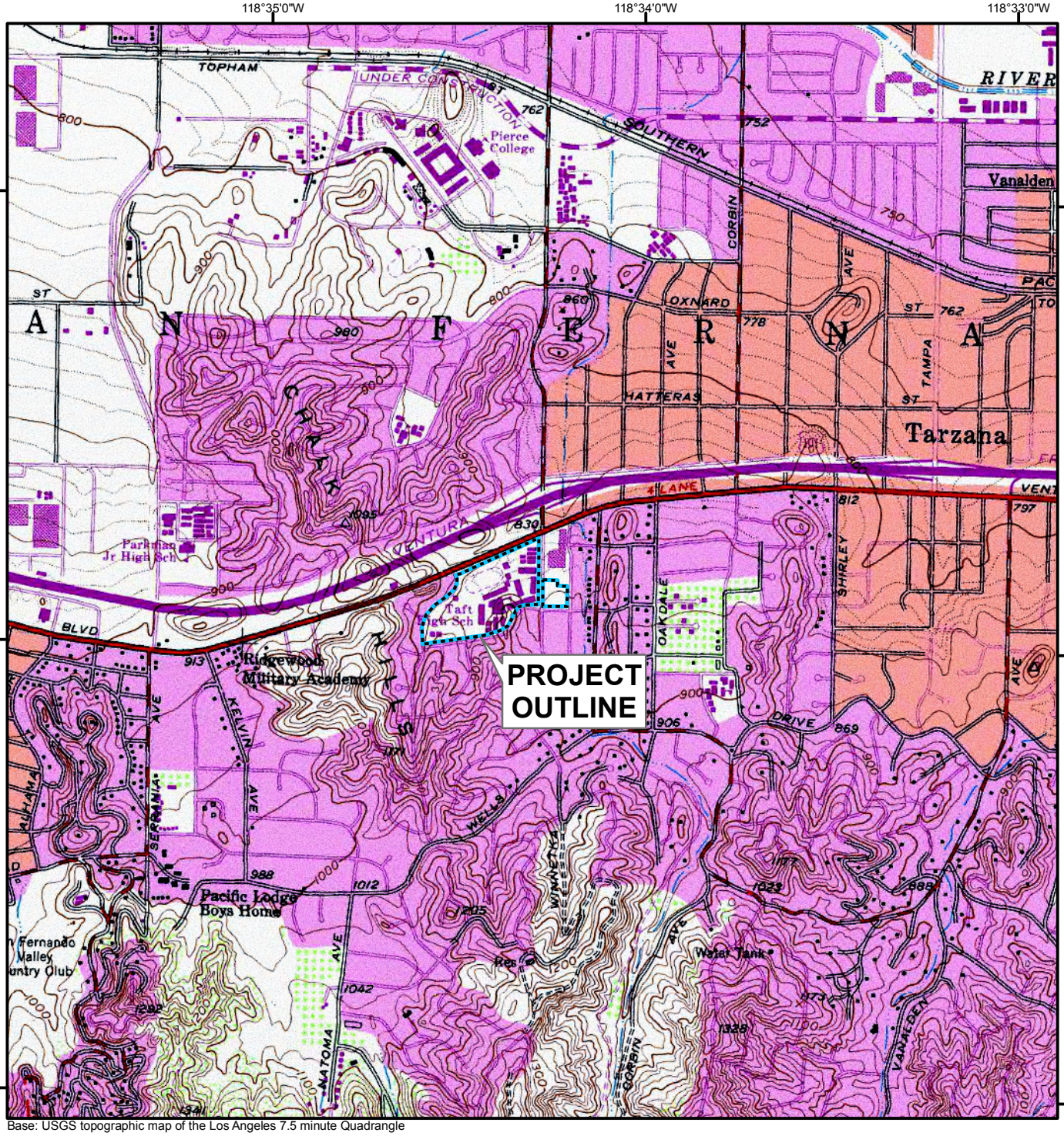
FIGURES



Base: USGS topographic map of the Los Angeles 7.5 minute Quadrangle

0 1,000 2,000 4,000 Feet

0 0.2 0.4 0.8 Miles

N S E W

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Amec Foster Wheeler
Environment & Infrastructure, Inc.
6001 Rickenbacker Road
Los Angeles, California 90040
Tel: 323.889.5300
Fax: 323.721.6700

Proposed Modernization
Taft High School
Woodland Hills, California

LAT:	34.1695
LON:	-118.5713
SCALE:	1:24,000
DRAWN:	PER
CHECK:	PJE
DATE:	5/17/2017

SITE VICINITY MAP

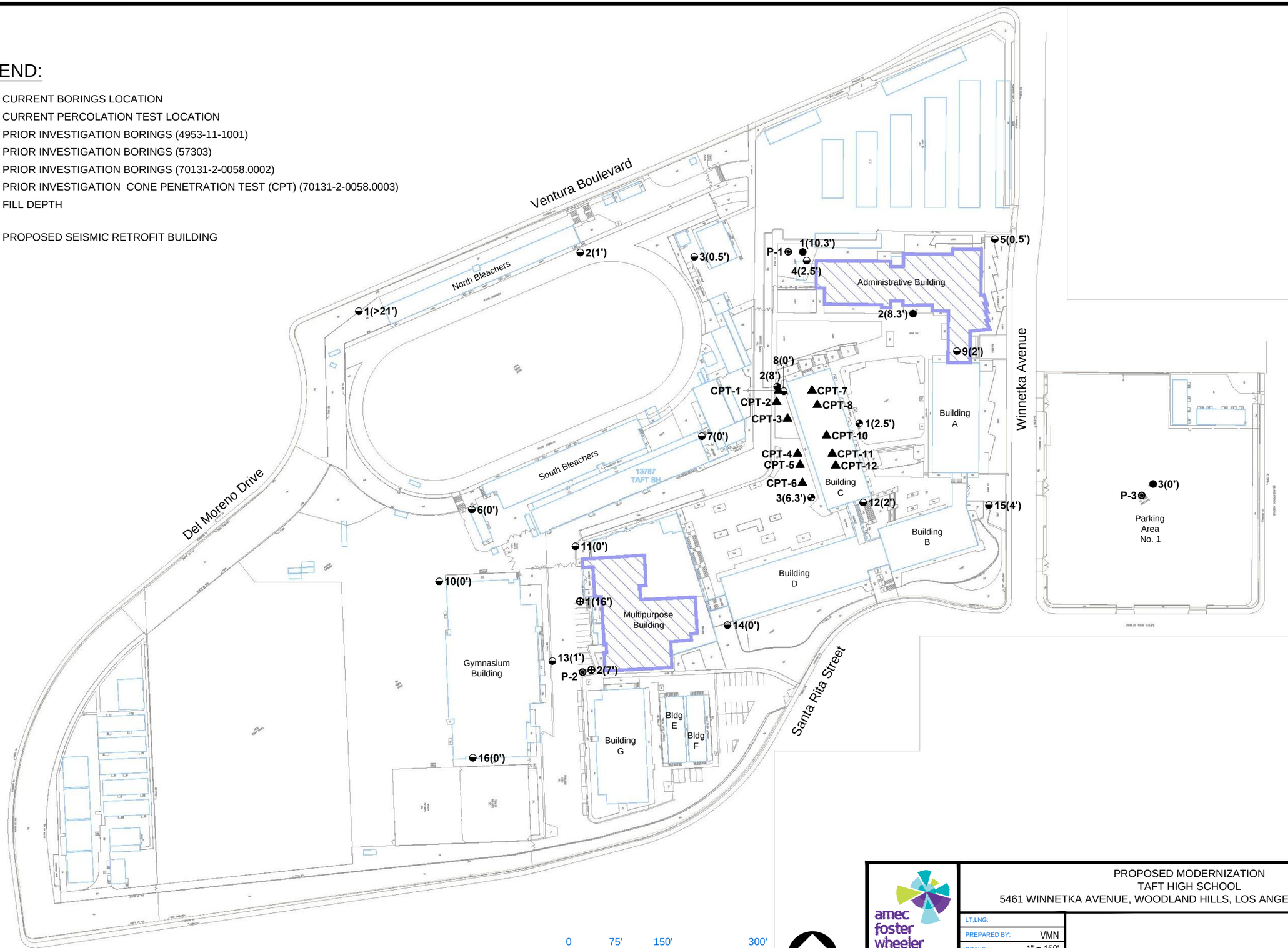
FIGURE: 1

PROJECT: 4953-17-0421

G:\4953_Geotech\2017\170421 LAUSD Taft HS Modernization\GIS\170421 Figure 1 Site Vicinity Map.mxd

LEGEND:

- **3** ● CURRENT BORINGS LOCATION
- **P-3** ◉ CURRENT PERCOLATION TEST LOCATION
- **2** ⊕ PRIOR INVESTIGATION BORINGS (4953-11-1001)
- **16** ◒ PRIOR INVESTIGATION BORINGS (57303)
- **3** ◕ PRIOR INVESTIGATION BORINGS (70131-2-0058.0002)
- **CPT-12** ▲ PRIOR INVESTIGATION CONE PENETRATION TEST (CPT) (70131-2-0058.0003)
- **(10.3')** FILL DEPTH
- PROPOSED SEISMIC RETROFIT BUILDING



0 75' 150' 300'

SCALE: 1" = 150'

Reference:

Plot Plan prepared by Los Angeles Unified School District, Board of Education, Asset Management Branch Facilities Plans and Records Unit , sheet 1 of 1, dated January 10, 2017

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Amec Foster Wheeler
Environment & Infrastructure, Inc.
6001 Rickenbacker Road
Los Angeles, CA 90040
Phone (323) 889-5300
Fax (323) 721-6700

PROPOSED MODERNIZATION
TAFT HIGH SCHOOL
5461 WINNETKA AVENUE, WOODLAND HILLS, LOS ANGELES, CALIFORNIA

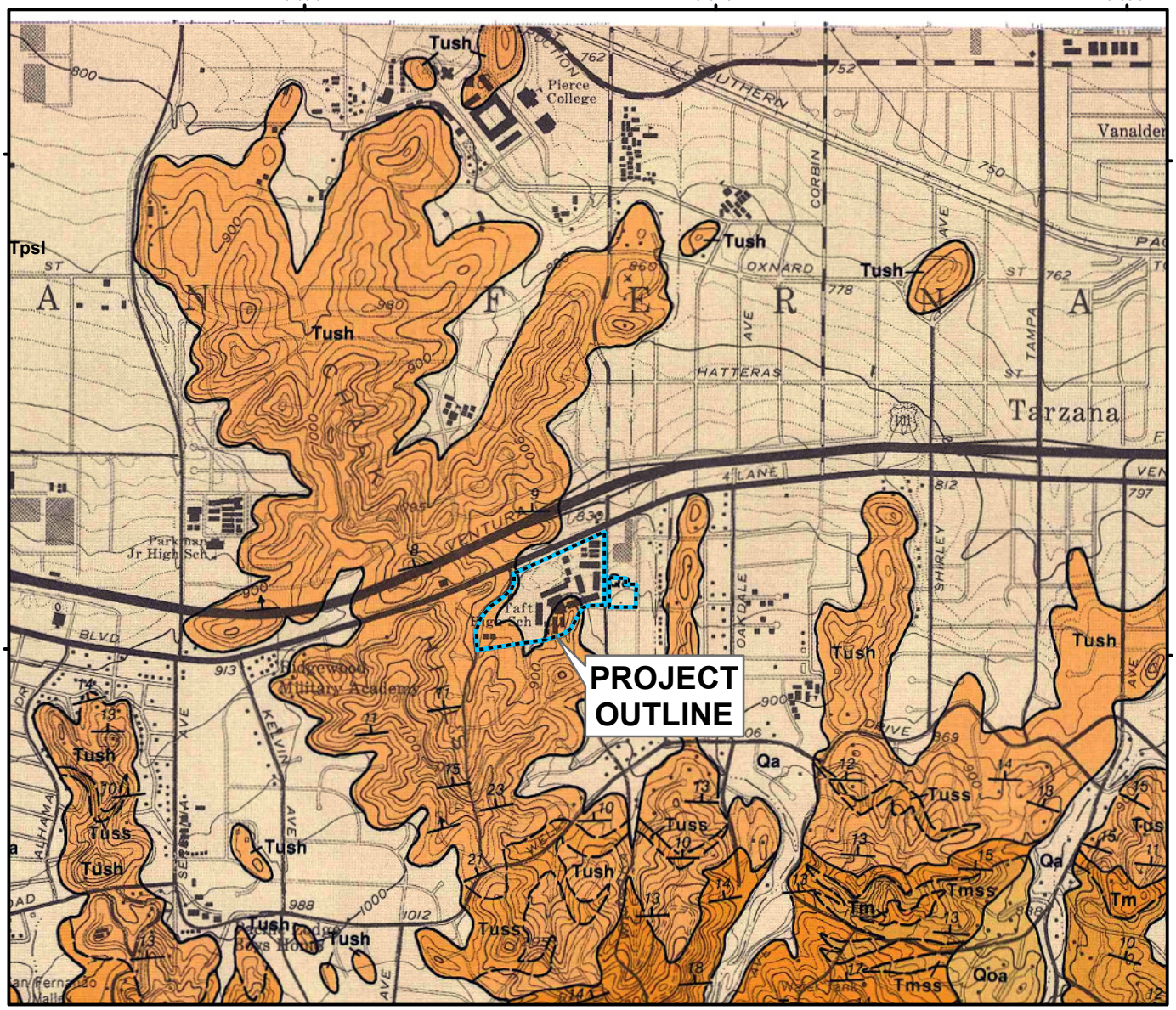
LT,LNG:	
PREPARED BY:	VMN
SCALE:	1" = 150'
DRAWN:	VMN
CHKD:	LH
DATE:	6/2/2017

PLOT PLAN

FIGURE NO. **2**

PROJECT NO. 4953-17-0421

Path: G:\4953_Geotech\2017\17\0421 LAUSD Taft HS Modernization\CAD\DWG\4953-17-0421_Fig-2_Plot-Plan(17.06.02).dwg [B-17X11]
Date: June 02, 2017 - 4:32pm By: vo.nguyen



0 1,000 2,000 4,000 Feet

N W E S

Contacts:

- contact, location accurate
- contact, location approximate
- contact, location concealed
- contact, location inferred
- fault, location accurate
- fault, location approximate
- fault, location concealed
- fault, location inferred

Symbols:

- 23 Inclined Bedding
- 18 Inclined Bedding approx.

Geologic Units

Unit - Description (Age)

Qa- Alluvial gravel, sand, and clay of valley areas (Holocene)

Qoa- Older alluvium of gravel, sand, and silt-clay derived from Santa Monica Mountains (late Pleistocene)

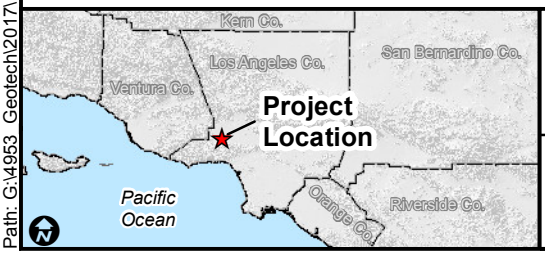
Tush- Unnamed Shale. Claystone and siltstone, moderately to vaguely bedded. Equivalent to Upper Modelo Formation of Hoots, 1931 and A.E.G Maps, 1982 (late Miocene)

Tuss- Unnamed Shale. Sandstone (late Miocene)

Tm- Monterey Formation. Siliceous, thinly bedded shale (middle and late Miocene)

Tmss- Monterey Formation. Sandstone, bedded (middle and late Miocene)

Reference:
Dibblee, T.W., and Ehrenspeck, H.E., ed., 1992, Geologic map of the Topanga and Canoga Park (south 1/2) quadrangles, Los Angeles County, California: Dibblee Geological Foundation, Dibblee Foundation Map DF-35, scale 1:24,000.



amec foster wheeler
Amec Foster Wheeler
Environment & Infrastructure, Inc.
6001 Rickenbacker Road
Los Angeles, California 90040
Tel: 323.889.5300
Fax: 323.721.6700

Proposed Modernization
Taft High School
Woodland Hills, California

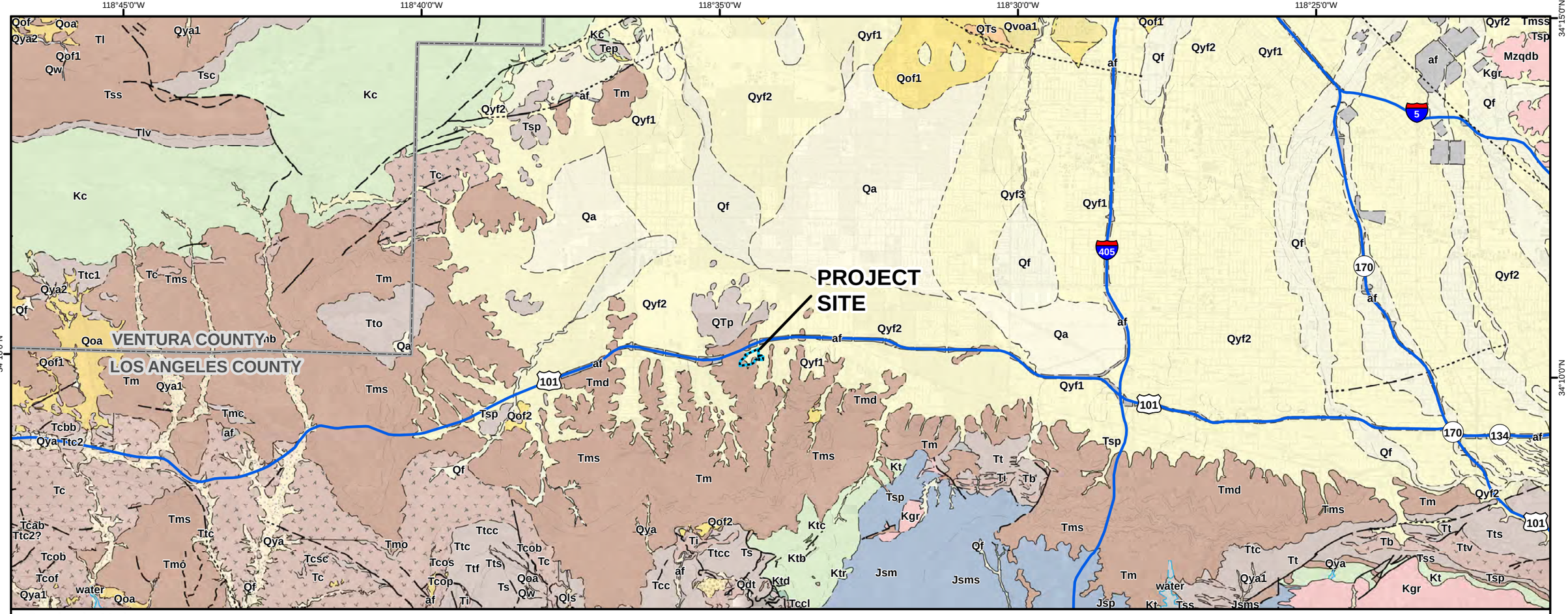
LAT:	34.1695
LON:	-118.5713
SCALE:	1:24,000
DRAWN:	PER
CHECK:	PJE
DATE:	6/2/2017

LOCAL GEOLOGIC MAP

FIGURE: 3

PROJECT: 4953-17-0421

Path: G:\4953 Geotech\2017\170421 LAUSD Taft HS Modernization\GIS\170421 Figure 3 Local Geologic Map.mxd



Geologic Units

af-Artificial fill (latest Holocene)
Qa-Alluvium, undifferentiated, active channel (late Holocene)
Qw-Wash deposits (late Holocene)
Qf-Alluvial fan deposits (late Holocene, Holocene)
Qya-Young alluvium, undivided (Holocene to late Pleistocene)
Qyf-Young alluvial fan deposits (Holocene to late Pleistocene)
Qdt-Debris trains and talus (Holocene, late Pleistocene)
Qls-Landslide deposits (Holocene, late Pleistocene)
Qof-Old alluvial fan deposits (middle Pleistocene)
Qoa-Old alluvium, undivided (late to middle Pleistocene)
Qof-Old alluvial fan deposits, undivided (late to middle Pleistocene)
Qvoa-Very old alluvium (early Pleistocene)
QTs-Saugus Formation, undivided (early Pleistocene, late Pliocene)
QTp-Pico Formation, undivided (Pliocene)
Tm-Modelo Formation, undivided, mudstone, siltstone, shale (late Miocene)
Tto-Towsley Formation, sandstone (late Miocene and early Pliocene)
Tb-Basalt dikes, flows and breccias (Miocene)
Tc-Conejo Volcanics, undifferentiated (middle Miocene)
Ti-Intrusive rocks, undivided (middle Miocene)
Tt-Topanga Group, undivided, sedimentary and volcanic rocks (middle Miocene)
Tl-Llajas Formation, very fine sandstone and siltstone (middle to early Miocene)
Tsp-Sespe Formation, Piuma Member, sandstone (early Miocene to late Eocene)
Tss-Santa Susana Formation, clay and mudrock (early to late Paleocene)
Tlv-Las Virgenes Formation, sandstone (early Paleocene)
Tcc-Coal Canyon Formation, sandstone, conglomerate, siltstone (Eocene/Paleocene)
Tccl-Coal Canyon Formation, limestone (Eocene/Paleocene)
Ts-Sespe Formation, undivided, sandstone (late Eocene, Oligocene, early Miocene)
Tep-Sedimentary Rocks of Chatsworth Reservoir (Eocene and/or Paleocene)
Tsc-Simi Conglomerate, undivided, sandstone and cobble conglomerate (Paleocene)
Kc-Chatsworth Formation, sandstone (late Cretaceous)
Kgr-Granitic rocks (late Cretaceous)
Kt-Tuna Canyon Formation, undivided (late Cretaceous)
Ktb-Tuna Canyon Formation, sandstone (late Cretaceous)
Ktc-Tuna Canyon Formation, pebble conglomerate (late Cretaceous)
Ktd-Tuna Canyon Formation, fine-grained fossiliferous sandstone (late Cretaceous)
Ktr-Trabuco Formation, conglomerate (late Cretaceous)
Ktt-Tuna Canyon Formation, marine sandstone (late Cretaceous)
Jsm-Santa Monica Slate (late Jurassic)
Jsms-Santa Monica Slate, spotted (late Jurassic)
Jsp-Santa Monica Slate, phyllite (late Jurassic)
Mzqdb-Biotite-quartz diorite (Mesozoic)

Note: Some geologic units may have sub-units shown on map

Geologic Contacts

contact, identity and existence certain, location accurate
contact, identity and existence certain, location approximate
contact, identity and existence certain, location concealed
contact, identity and existence certain, location inferred
fault, identity and existence certain, location accurate
fault, identity and existence certain, location approximate
fault, identity and existence certain, location concealed
fault, identity and existence certain, location inferred

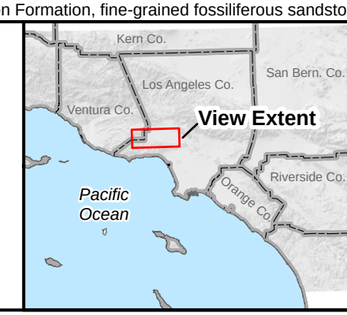
(Queried where contacts are questionable)

N
W E
S

Graphic Scale

0 0.5 1 2 3 4 Miles

0 0.75 1.5 3 4.5 6 Kilometers



Reference:
Bedrossian, T.L., Roffers, P., Hayhurst, C.A., 2010, "Geologic Compilation of Quaternary Surficial Deposits in Southern California", California Geological Survey, vector spatial data, Special Report 217, July 2010.

amec foster wheeler

AMEC Foster Wheeler
Environment & Infrastructure, Inc.
6001 Rickenbacker Road
Los Angeles, California 90040
Tel: 323.889.5300
Fax: 323.721.6700

Proposed Modernization
Taft High School
Woodland Hills, California

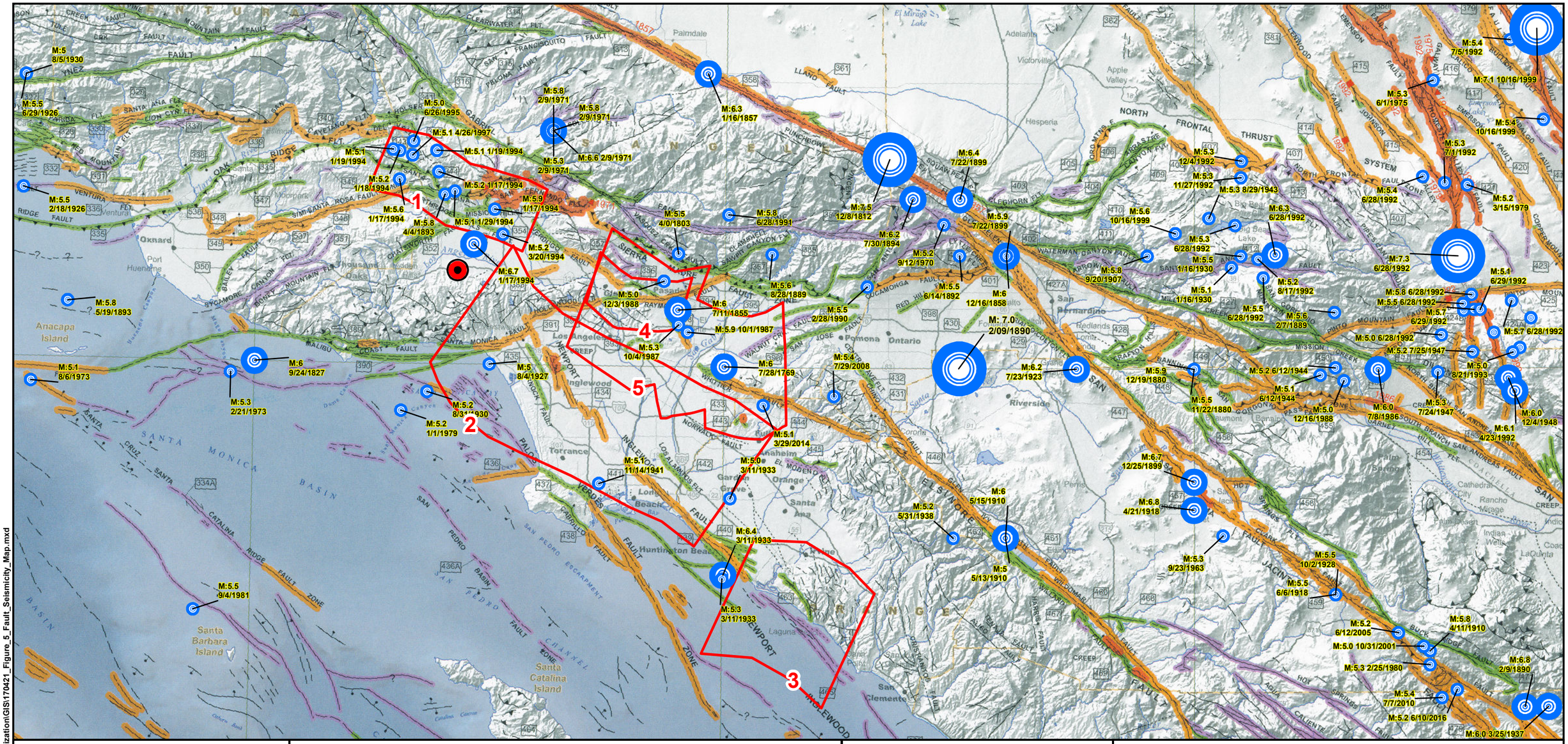
LAT:	34.1695
LON:	-118.5713
SCALE:	1:100,000
DRAWN:	PER
CHECK:	PJE
DATE:	5/16/2017

REGIONAL GEOLOGIC MAP

FIGURE: 4

PROJECT: 4953-17-0421

Path: G:\4953_Geotech\2017\170421 LAUSD Taft HS Modernization\GIS\170421_Figure_4_Regional_Geologic_Map.mxd



Earthquakes

Approximate Epicentral Area of Earthquake (Dates are UTC)

- Events ≥ 7.0
- Events 6.0 - 6.9
- Events 5.0 - 5.9

Faults

- Historic Fault Displacement
- Holocene Fault Displacement
- Evidence of Late Quaternary Fault Displacement
- Undivided Quaternary Faults

Bar and ball on downthrown side (relative or apparent)

Arrows along fault indicate relative or apparent direction of lateral movement

Arrows on fault indicates direction of dip

Low angle fault identified with barbs on upper plate. Fault surface generally dips less than 45°but locally may have been subsequently steepened.

Blind Thrust Faults (surface projection)

Blind Thrust Index:

1 Northridge Thrust

2 Compton Thrust

3 San Joaquin Hills Thrust

4 Upper Elysian Park Thrust

5 Puente Hills Thrust

SITE

N W E S

0 4 8 16 24 32 Kilometers

0 3 6 12 18 24 Miles

REFERENCES:
Jennings, C.W. and Bryant, W.A., 2010,"Fault Activity Map of California," California Geological Survey, GDM-006, May 2010
Earthquake Catalogs: California Geological Survey, 1769-1932; Southern California Earthquake Center, 1932-2016.
Working Group on California Earthquake Probabilities (WGCEP), 2016, Fault Database Tools, <http://www.wgcep.org/tools-fault_db>

amec foster wheeler

Amec Foster Wheeler
Environment & Infrastructure, Inc.
6001 Rickenbacker Road
Los Angeles, California 90040
Tel: 323.889.5300
Fax: 323.721.6700

Proposed Modernization
Taft High School
Woodland Hills, California

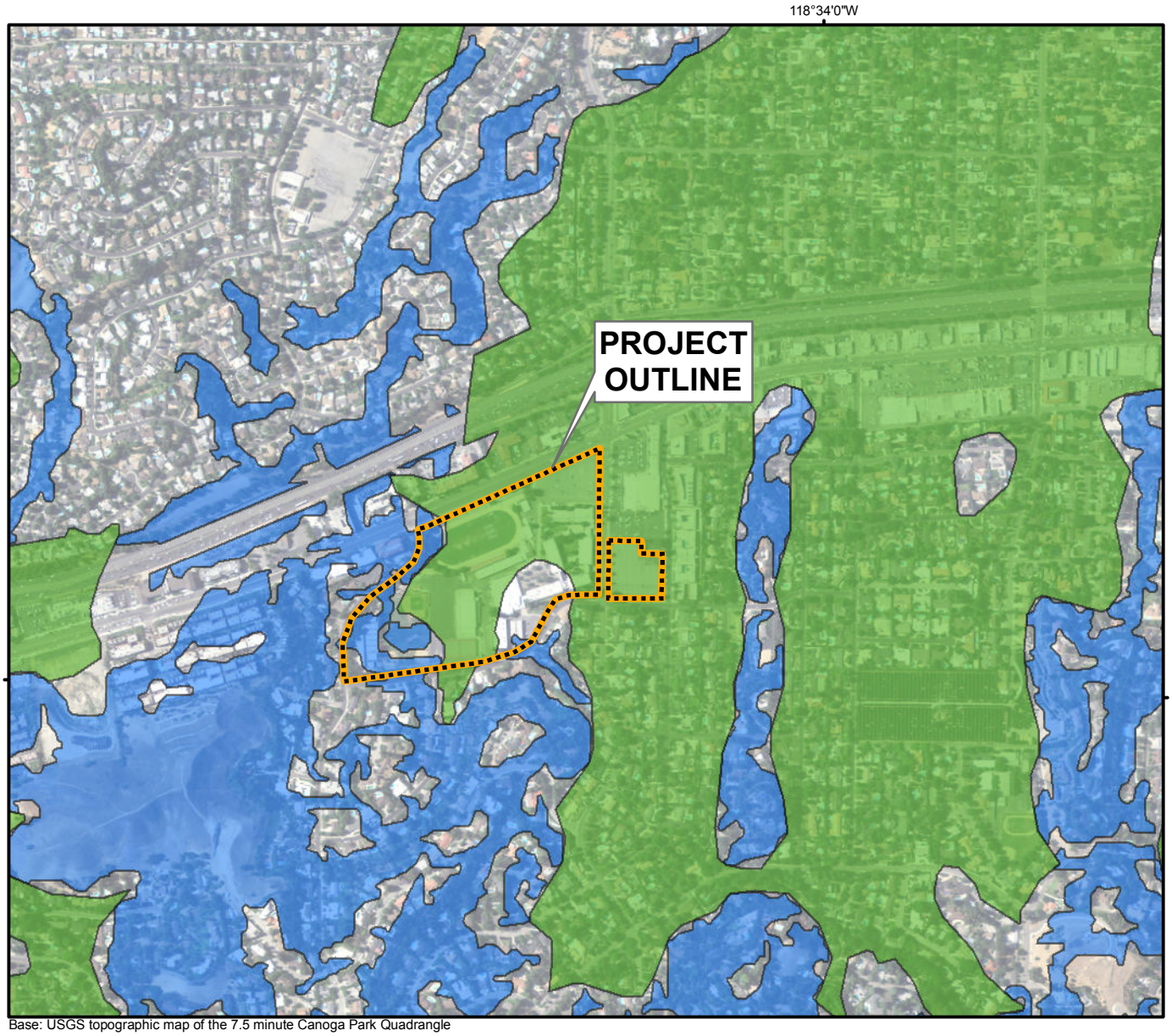
LAT:	34.1695
LON:	-118.5713
SCALE:	1:750,000
DRAWN:	PER
CHECK:	PJE
DATE:	5/16/2017

REGIONAL FAULT AND SEISMICITY MAP

FIGURE: 5

PROJECT: 4953-17-0421

Path: G:\4953_Geotech\2017\170421 LAUSD Taft HS Modernization\GIS\170421_Figure_5_Fault_Seismicity_Map.mxd



Base: USGS topographic map of the 7.5 minute Canoga Park Quadrangle

Seismic Hazards

Earthquake-induced landslides - Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Liquefaction - Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

N
W E
S

0 500 1,000 2,000 Feet

0 0.1 0.2 0.4 Miles

Reference:
California Geological Survey, 2001, GIS files of Official Maps of Seismic Hazard Zones.

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Amec Foster Wheeler
Environment & Infrastructure, Inc.
6001 Rickenbacker Road
Los Angeles, California 90040
Tel: 323.889.5300
Fax: 323.729.6700

Proposed Modernization
Taft High School
Woodland Hills, California

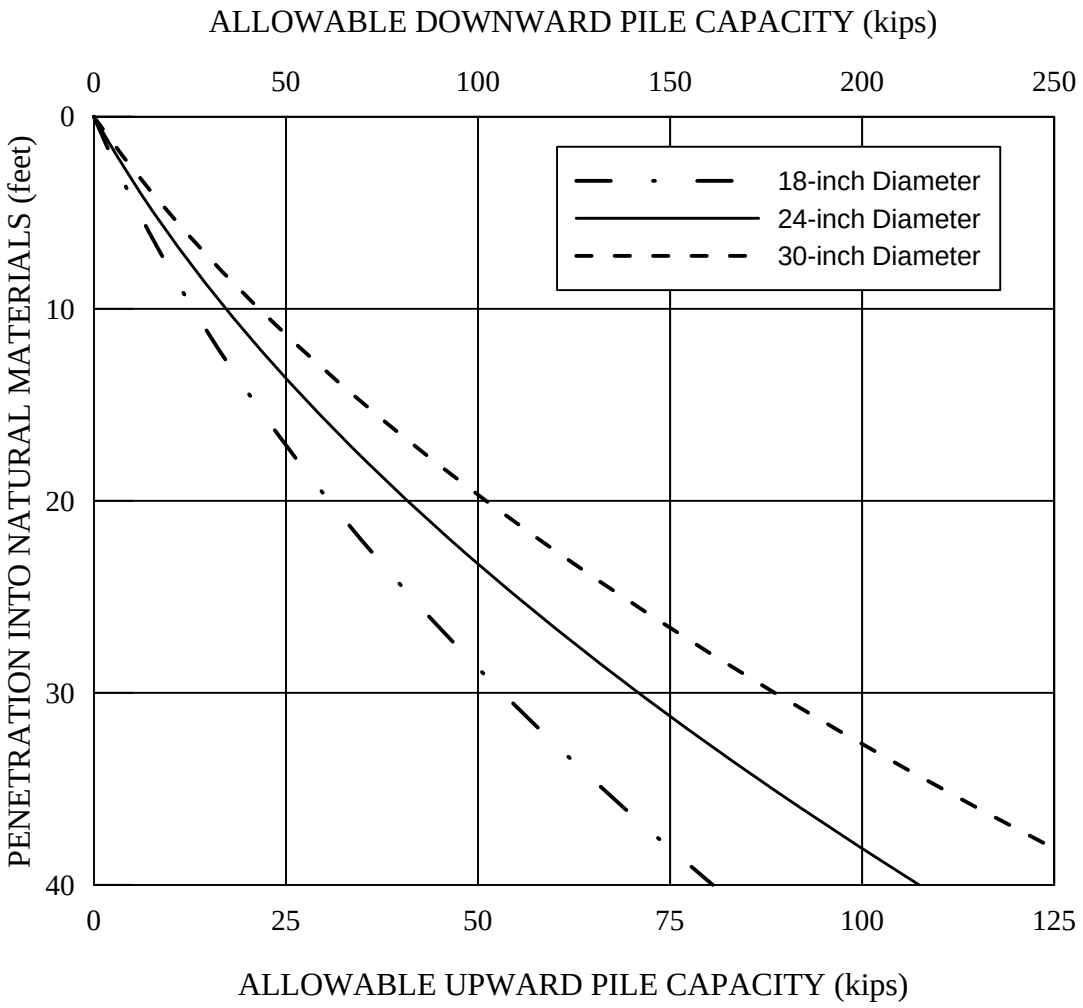
LAT:	34.1695
LON:	-118.5713
SCALE:	1 in=1,000 ft
DRAWN:	PER
CHECK:	PJE
DATE:	5/17/2017

SEISMIC HAZARDS MAP

FIGURE: 6

PROJECT: 4953-17-0421

Path: G:\4953_Geotech\2017\170421 LAUSD Taft HS Modernization\GIS\170421_Figure_6_Seismic_Hazards.mxd



NOTES:

(1) A one-third increase to the above values may be used for wind or seismic loads.

(2) Piles in groups should be spaced a minimum of 3 pile diameters on centers.

(3) The indicated values are based on the strength of the soils; the actual pile capacities may be limited to lesser values by the strength of the piles.

Prepared/Date: LH 05/31/17
Checked/Date: MM 05/31/17

Proposed School Modernization William Howard Taft Charter High School 5461 Winnetka Avenue Woodland Hills District, Los Angeles, California	amec foster wheeler	DRILLED PILE CAPACITIES Project No. 4953-17-0421 Figure 7

APPENDIX A

CURRENT FIELD EXPLORATIONS AND LABORATORY TEST RESULTS

APPENDIX A

CURRENT FIELD EXPLORATIONS AND LABORATORY TEST RESULTS

CURRENT FIELD EXPLORATIONS

The soil conditions beneath the site were explored by drilling three exploration borings at the locations shown on Figure 2. The borings were drilled to depths of 31 to 51 feet below the existing grade. Three additional borings were drilled adjacent to the three exploration borings to a depth of 6 feet below the existing grade for the purpose of determining the infiltration rate of the subsurface soils; the locations of these borings are also shown on Figure 2. All of our current borings were drilled using truck-mounted 8-inch-diameter hollow stem auger drilling equipment.

The soils encountered were logged by our field technician and undisturbed and bulk samples were obtained for laboratory inspection and testing. The logs of the borings are presented on Figures A-1.1 through A-1.3; the depths at which undisturbed samples were obtained are indicated to the left of the boring logs. The number of blows required to drive the Crandall sampler 12 inches using a 140-pound automatic hammer falling 30 inches is indicated on the logs. The soils are classified in the accordance with the Unified Soil Classification System described on Figure A-2.

LABORATORY TESTS

Laboratory tests were performed on selected samples obtained from the borings to aid in the classification of the soils and to determine their engineering properties. Some of the laboratory testing was performed for us by AP Engineering and Testing, Inc.

The field moisture content and dry density of the soils encountered were determined by performing tests on the undisturbed samples. The results of the tests are shown to the left on the boring logs.

To aid in classification of the soils, tests to determine the percentage of fines (material passing through a -200 sieve) in selected samples were performed. The results of these tests are presented on the boring logs.

To aid in classification of the soils and to define the plasticity characteristics of the materials, Atterberg Limits tests were performed to determine the liquid limit and plastic limit of several of the samples. The testing procedure was in general accordance with ASTM Designation D4318. The results of the tests are shown on the boring logs.

Direct shear tests were performed on selected undisturbed and remolded samples to determine the strength of the soils. The tests were performed at field moisture content and after soaking to near-saturated moisture content and at various surcharge pressures. The values determined from the direct shear tests and design strength parameters used in our analyses are presented on Figure A-3, Direct Shear Test Data.

Confined consolidation tests were performed for us by AP Engineering and Testing on four relatively undisturbed samples to determine the compressibility of the soils. Water was added to the samples during the tests to illustrate the effect of moisture on the compressibility or expansion potential. The results of the tests are presented on Figures A-4.1 through A-4.4, Consolidation Test Data.

The optimum moisture content and maximum dry density of the upper soils were determined by performing a compaction test on one sample. The tests were performed in accordance with the ASTM Designation D1557 method of compaction. The results of the tests are presented on Figure A-5, Compaction Test Data.

The Expansion Index of the soils was determined by testing two samples. The results of the test are shown on Figures A-6.1 and A-6.2, Expansion Index Test Results.

To provide information for paving design, a stabilometer test ("R" value test) was performed on one samples of the upper soils. The tests were performed for us by both AP Engineering and Testing and LaBelle Marvin, Inc. The results of the test are presented on Figures A-7.1 and A-7.2.

Soil corrosivity studies were performed for us by HDR on samples of the on-site soils. The results of the tests and recommendations for mitigating procedures are presented in Appendix C.

BORING 1

DATE DRILLED: April 10, 2017
EQUIPMENT USED: Hollow-Stem Auger
HOLE DIAMETER (in.): 8
ELEVATION (ft): 849.0**

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE; REFER TO PLOT PLAN FOR MORE ACCURATE LOCATION INFORMATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.		
							Grass at Surface
		20.5	96				FILL - SILTY SAND - moist, brown, fine grained, trace to some fine gravel up to 1/2 inch in diameter, trace clay At 2 feet: More clay, trace coarse gravel up to 2 inches in diameter FILL - SANDY FAT CLAY - moist, dark grayish brown with mottled yellowish brown, some roots, heavy iron oxide stains, (LL=59, PI=42)
845	5						
		21.1	94	11			Few silty sand lenses, (disturbed sample)
		27.1	90	7			Less sand, some fine to coarse gravel up to 2 inches in diameter
840	10						FILL - POORLY GRADED SAND with CLAY - moist, olive brown, fine to medium grained, some coarse, some fine to coarse gravel up to 2 inches in diameter
		21.5	90	10		CH	FAT CLAY with SAND - medium stiff, moist, dark olive, some small sand nodules, (LL=53, PI=33)
		24.8	95	9			Some fine to coarse gravel up to 1¾ inches in diameter
835	15					CL	LEAN CLAY - medium stiff, moist, olive to dark olive, few fine sand
		24.2	99	8			
		20.8	99	13			Less sand
830	20					CL	SANDY LEAN CLAY - medium stiff, moist, olive to dark olive, fine sand
		25.3	91	10			Few silt lenses
		24.3	90	8			Some fine to medium sand nodules
825	25						
		30.3	84	9			2-inch diameter gravel, (LL=40, PI=19)
							▽ Thin layer of clayey sand, moist to wet, olive to dark olive, fine grained, some medium and trace coarse, some fine to coarse gravel up to 1½ inches in diameter Wet, olive brown, fine sand
820	30						
		19.6	96	8			
							Yellow olive with mottled yellow brown, some iron stains, some nodules of fine sand
815	35						
		19.1	104	16			Becomes stiff, slight increase in sand content
							CLAYSTONE - moist, dark gray to black, trace to few fine sand
810	40						

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: LH
Prepared By: JF
Checked By: LH

Proposed Modernization Taft High School
5461 Winnetka Avenue, Woodland Hills, California

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LOG OF BORING
Project: 4953-17-0421 Figure: A-1.1a

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BORING 1 (Continued)

DATE DRILLED: April 10, 2017
EQUIPMENT USED: Hollow-Stem Auger
HOLE DIAMETER (in.): 8
ELEVATION (ft): 849.0**

ELEVATION (ft)	DEPTH (ft)	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.
		38.8	77	56	
805	45				
		32.4	83	52	
800	50				
		36.0	78	63/11"	
795	55				
790	60				
785	65				
780	70				
775	75				
770	80				

Thin lenses of fine sand

END OF BORING AT 51 FEET

NOTES:
Hand augered upper 5 feet due to possible damage to underground utilities. Groundwater was measured at 27½ feet below ground surface (bgs) 10 minutes after completion of drilling. Borehole was backfilled with soil cuttings.

*Number of blows required to drive the Crandall sampler 12 inches using a 140-pound automatic hammer falling 30 inches.

**Approximate elevations were measured in Google Earth Pro.

Field Tech: LH
Prepared By: JF
Checked By: LH

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE; REFER TO PLOT PLAN FOR MORE ACCURATE LOCATION INFORMATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

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BORING 2

DATE DRILLED: April 10, 2017
EQUIPMENT USED: Hollow-Stem Auger
HOLE DIAMETER (in.): 8
ELEVATION (ft): 847.0**

ELEVATION (ft)	DEPTH (ft)	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.		
845							FILL - SANDY LEAN CLAY - moist, olive brown, fine sand, some fine to coarse gravel up to ¾ inch in diameter, some roots
	5	33.2	87	8			Some medium sand, some fine gravel up to ½ inch in diameter
840		24.2	90	7		CL	SANDY LEAN CLAY - medium stiff to stiff, moist, olive brown, fine sand, some iron oxide stains, some fine gravel up to ¼ inch in diameter, trace silt
	10	20.0	102	9			
835		12.8	112	19			More fine sand, thin interbeds of Clayey Sand, some angular shale fragments
	15	13.7	93	25			Very stiff, olive to brown, some roots, (67% Passing No. 200 Sieve)
830						CH	FAT CLAY - stiff, moist, light olive gray, trace fine sand, heavy iron oxide stains, some calcium carbonate stringers, (LL=78, PI=51)
		28.7	84	17			CLAYSTONE - very moist, light olive gray, highly weathered, few joint surfaces
	20	38.1	80	21			
825		38.1	79	18			Slightly more moist
	25	39.2	78	21			
820							
	30	43.9	73	14			Become olive gay to light olive gray
815							END OF BORING AT 31 FEET
	35						
810							
	40						

NOTES:
Hand augered upper 5 feet due to possible damage to underground utilities.
Groundwater was not encountered. Borehole was backfilled with soil cuttings.

Field Tech: LH
Prepared By: LH
Checked By: JF

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE; REFER TO PLOT PLAN FOR MORE ACCURATE LOCATION INFORMATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

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LOG OF BORING
Project: 4953-17-0421 Figure: A-1.2

BORING 3

DATE DRILLED: April 10, 2017
EQUIPMENT USED: Hollow-Stem Auger
HOLE DIAMETER (in.): 8
ELEVATION (ft): 852.0**

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE; REFER TO PLOT PLAN FOR MORE ACCURATE LOCATION INFORMATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.		
						CL	3-inch thick Asphalt Concrete SANDY LEAN CLAY - stiff, moist, olive brown, fine sand, some sand nodules
850		14.5	112	18	⊠		
	5	15.9	104	21	⊠		Slightly less sand
845		16.6	108	22	⊠		Some calcium carbonate nodules, (LL=36, PI=21)
	10	20.3	101	18	⊠	SC	CLAYEY SAND - medium dense, moist, olive to olive brown, fine grained, nodules of clay, (LL=34, PI=14)
840		15.0	101	18	⊠	ML	SILT with SAND - stiff, moist, olive, fine sand, some clay nodules (71% Passing No. 200 Sieve)
	15	8.5	88	22	⊠	SP-SM	POORLY GRADED SAND with SILT - medium dense, moist, yellow olive to olive, fine grained, trace medium, alternating with layers of silty sand
835		18.9	95	22	⊠	ML	Yellowish brown to olive SANDY SILT - stiff, moist, yellow olive to olive, fine sand, trace coarse, (53% Passing No. 200 Sieve)
	20	25.5	92	16	⊠		
830		21.5	102	13	⊠	CL	SANDY LEAN CLAY - medium stiff to stiff, moist, olive to light olive gray, fine sand
	25	21.4	103	18	⊠		▽ Alternating with layers of Lean Clay with Sand, light olive gray, fine sand, trace medium and coarse, some fine to coarse gravel up to ¾ inch in diameter
825							
	30	43.7	73	10	⊠		CLAYSTONE - wet, olive gray, trace fine sand, occasional heavy iron oxide stains, highly to extremely weathered, some sandy siltstone lenses
820							
	35	38.2	80	17	⊠		More iron oxide stains, thin lenses of sand, some clayey mudstone
815							
	40						

Field Tech: LH
Prepared By: LH
Checked By: JF

(CONTINUED ON FOLLOWING FIGURE)

Proposed Modernization Taft High School
5461 Winnetka Avenue, Woodland Hills, California

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LOG OF BORING
Project: 4953-17-0421 Figure: A-1.3a

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BORING 3 (Continued)

DATE DRILLED: April 10, 2017
EQUIPMENT USED: Hollow-Stem Auger
HOLE DIAMETER (in.): 8
ELEVATION (ft): 852.0**

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE; REFER TO PLOT PLAN FOR MORE ACCURATE LOCATION INFORMATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.	
		31.5	85	17		SANDSTONE to CLAYSTONE - yellow olive, interbedded fine sand, dips 5°, thin layer of dark gray clayey mudstone
810						
	45	32.8	90	26		SILTY SANDSTONE - moist to wet, olive, fine sand, trace medium
805						
						Some Sandy Siltstone with Claystone interbeds
	50	18.7	93	45		Some thin interbeds of Silty Claystone, moist, dark gray, some fine sand
						END OF BORING AT 51 FEET
800						
	55					
795						
	60					
790						
	65					
785						
	70					
780						
	75					
775						
	80					

NOTES:
Hand augered upper 5 feet due to possible damage to underground utilities.
Groundwater was measured at 25¼ feet bgs 10 minutes after completion of drilling.
Borehole was backfilled with soil cuttings and patched with asphalt.

Field Tech: LH
Prepared By: LH
Checked By: JF

Proposed Modernization Taft High School
5461 Winnetka Avenue, Woodland Hills, California

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LOG OF BORING
Project: 4953-17-0421 Figure: A-1.3b

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MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve size)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size)	CLEAN GRAVELS (Little or no fines)	GW	Well graded gravels, gravel - sand mixtures, little or no fines.
			GP	Poorly graded gravels or grave - sand mixtures, little or no fines.
		GRAVELS WITH FINES (Appreciable amount of fines)	GM	Silty gravels, gravel - sand - silt mixtures.
			GC	Clayey gravels, gravel - sand - clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 Sieve Size)	CLEAN SANDS (Little or no fines)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES (Appreciable amount of fines)	SM	Silty sands, sand - silt mixtures
			SC	Clayey sands, sand - clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No. 200 sieve size)	SILTS AND CLAYS (Liquid limit LESS than 50)		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts and with slight plasticity.
			CL	Inorganic lays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS (Liquid limit GREATER than 50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils.

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

SILT OR CLAY	SAND			GRAVEL		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

No.200 No.40 No.10 No.4 3/4" 3" 12"

U.S. STANDARD SIEVE SIZE

Reference: The Unified Soil Classification System, Corps of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

Undisturbed Sample		Auger Cuttings	
Split Spoon Sample		Bulk Sample	
Rock Core		Crandall Sampler	
Dilatometer		Modified California Sampler	
Packer		No Recovery	
Water Table at time of drilling		Water Table after drilling	

Correlation of Penetration Resistance with Relative Density and Consistency

SAND & GRAVEL		SILT & CLAY	
No. of Blows	Relative Density	No. of Blows	Consistency
0 - 4	Very Loose	0 - 1	Very Soft
5 - 10	Loose	2 - 4	Soft
11 - 30	Medium Dense	5 - 8	Medium Stiff
31 - 50	Dense	9 - 15	Stiff
Over 50	Very Dense	16 - 30	Very Stiff
		Over 30	Hard

KEY TO SYMBOLS AND DESCRIPTIONS

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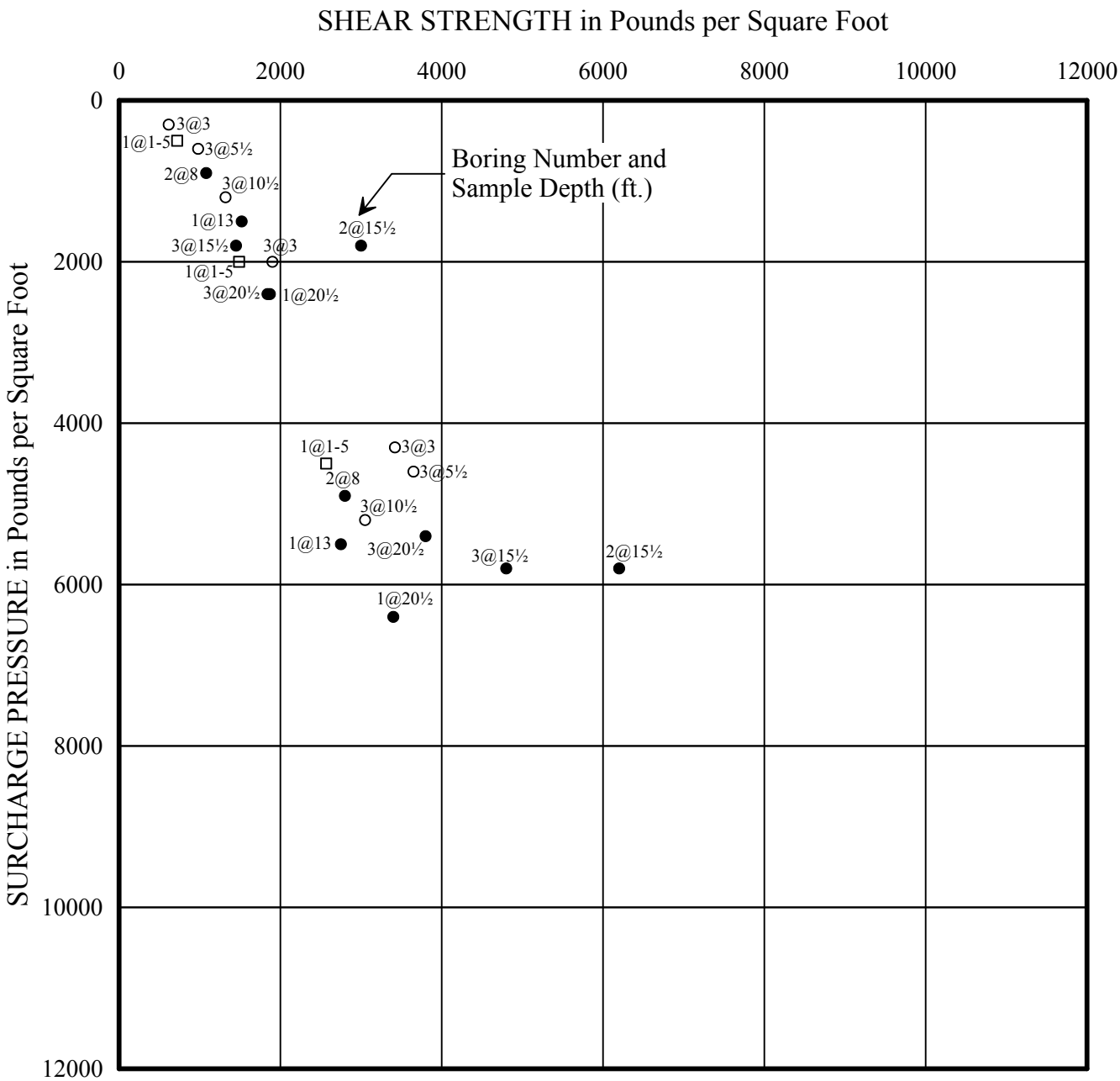
Figure A-2



● Samples tested at field moisture content

○ □ Samples soaked to a moisture content near saturation

□ Fill: samples recompacted to 90% relative compaction at a moisture content within 3% of optimum.

○ Natural

Prepared/Date: JF 5/10/2017
Checked/Date: LH 5/15/2017

Proposed Modernization Taft High School 5461 Winnetka Avenue Woodland Hills, California	amec foster wheeler	DIRECT SHEAR TEST DATA Project No. 4953-17-0421 Figure A-3

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Boring No. :	1	Initial Dry Unit Weight (pcf):	95.8
Sample No.:	15	Initial Moisture Content (%):	20.5
Depth (feet):	1-5	Final Moisture Content (%):	25.4
Sample Type:	Remolded to 90% RC at OMC+3%	Assumed Specific Gravity:	2.7
Soil Description:	Fat Clay	Initial Void Ratio:	0.76
Remarks:	Swell= 2.12% upon inundation		

CONSOLIDATION CURVE
ASTM D 2435

Project Name:	LAUSD - Taft HS
Project No.:	4953-17-0421
Date:	5/4/2017
AP No:	17-0506

Figure A-4.1

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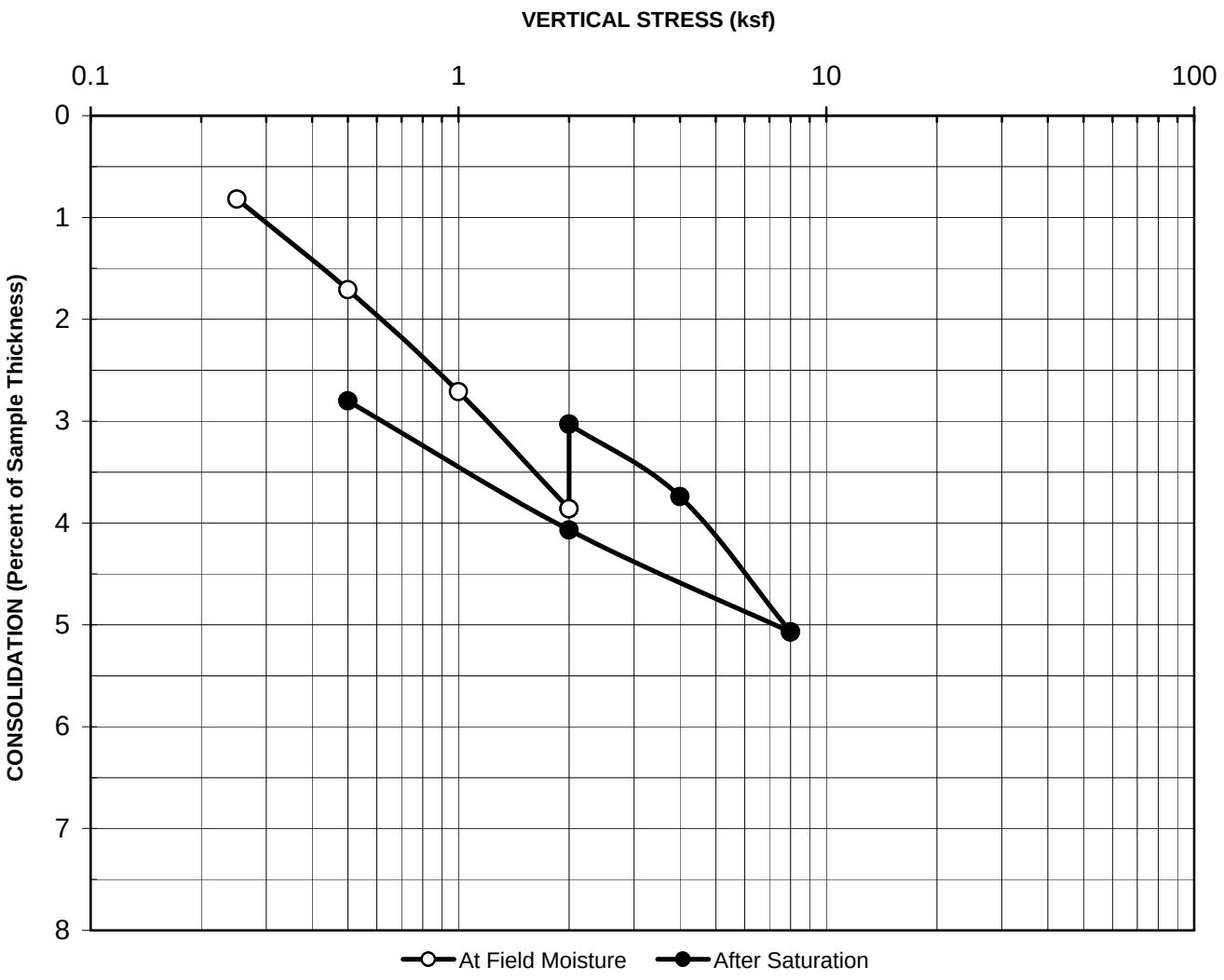

Boring No. :	1	Initial Dry Unit Weight (pcf):	98.5
Sample No.:	5	Initial Moisture Content (%):	24.2
Depth (feet):	15	Final Moisture Content (%):	24.7
Sample Type:	Mod Cal	Assumed Specific Gravity:	2.7
Soil Description:	Clay	Initial Void Ratio:	0.71
Remarks:	Swell= 0.83% upon inundation		

CONSOLIDATION CURVE
ASTM D 2435

Project Name:	LAUSD - Taft HS
Project No.:	4953-17-0421
Date:	5/4/2017
AP No:	17-0506

Figure A-4.2

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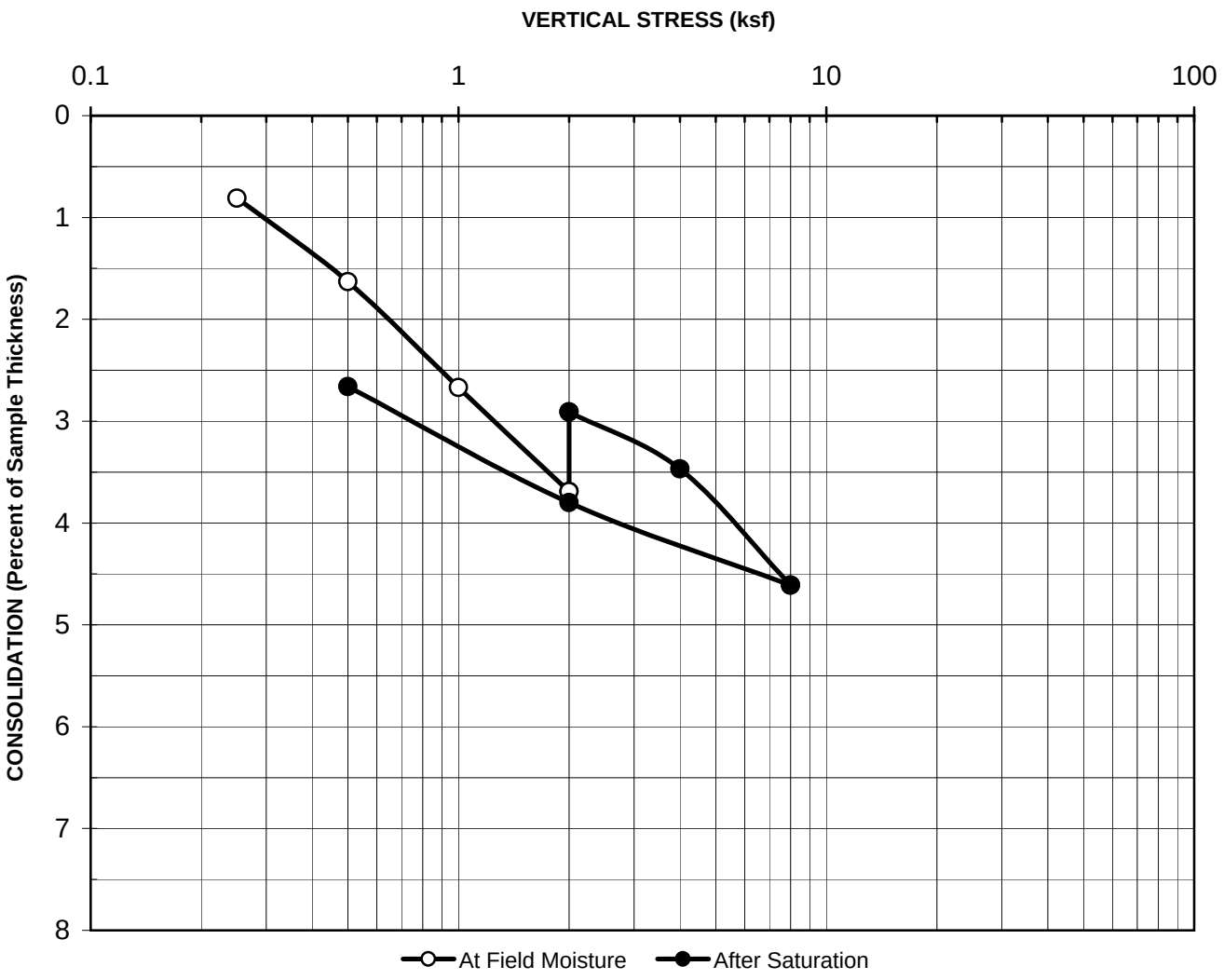

Boring No. :	2	Initial Dry Unit Weight (pcf):	102.2
Sample No.:	3	Initial Moisture Content (%):	20.0
Depth (feet):	10	Final Moisture Content (%):	21.3
Sample Type:	Mod Cal	Assumed Specific Gravity:	2.7
Soil Description:	Clay	Initial Void Ratio:	0.65
Remarks:	Swell= 0.78% upon inundation		

CONSOLIDATION CURVE
ASTM D 2435

Project Name:	LAUSD - Taft HS
Project No.:	4953-17-0421
Date:	5/4/2017
AP No:	17-0506

Figure A-4.3

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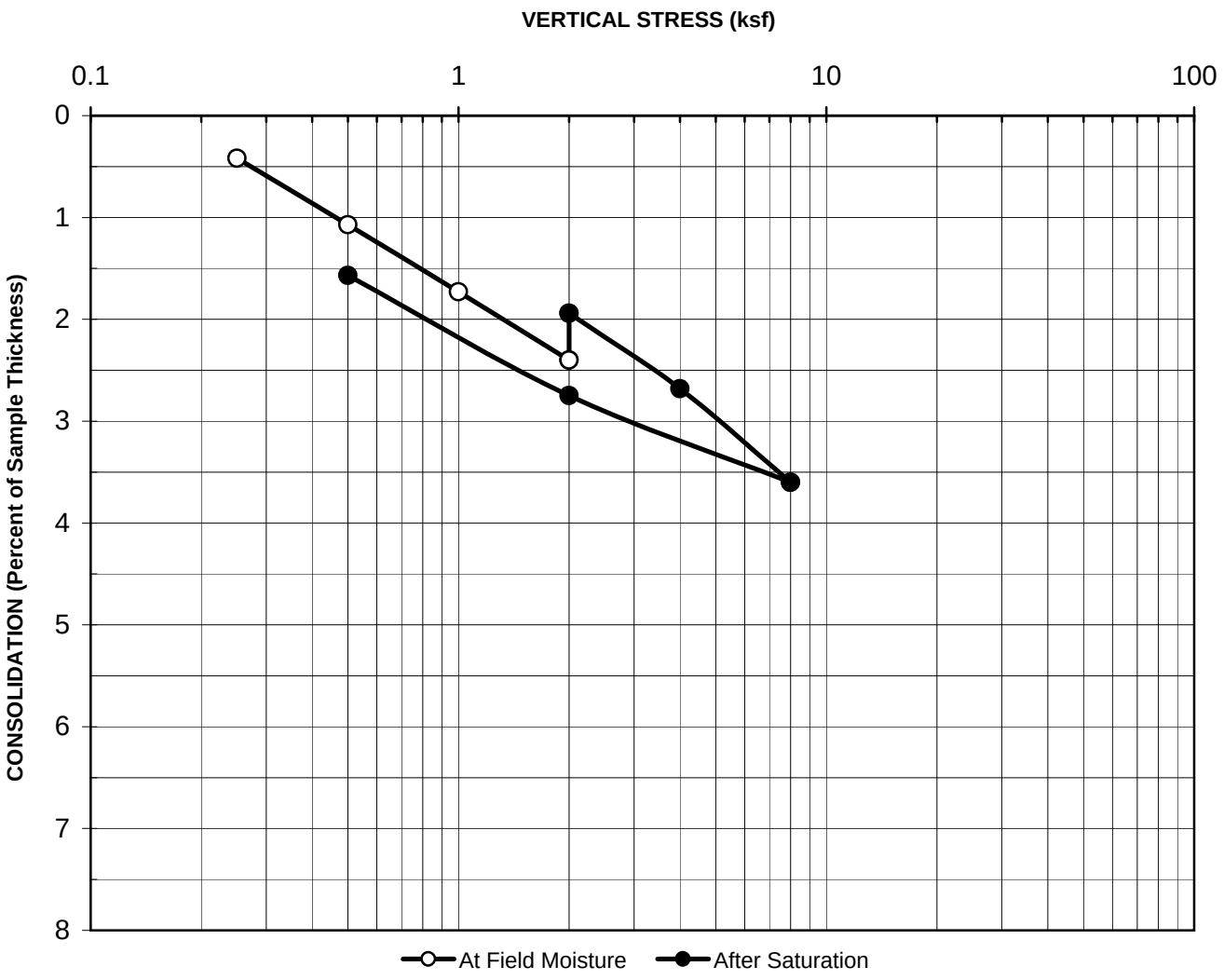

Boring No. :	3	Initial Dry Unit Weight (pcf):	111.6
Sample No.:	1	Initial Moisture Content (%):	14.5
Depth (feet):	2.5	Final Moisture Content (%):	17.7
Sample Type:	Mod Cal	Assumed Specific Gravity:	2.7
Soil Description:	Silty Clay	Initial Void Ratio:	0.51
Remarks:	Swell= 0.46% upon inundation		

CONSOLIDATION CURVE
ASTM D 2435

Project Name:	LAUSD - Taft HS
Project No.:	4953-17-0421
Date:	5/4/2017
AP No:	17-0506

Figure A-4.4

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COMPACTION TEST

Client:	AMEC Foster Wheeler			AP Number:	17-0506
Project Name:	LAUSD Taft HS	Tested By:	LS	Date:	05/04/17
Project No. :	4953-17-0421	Calculated By:	AP	Date:	05/04/17
Boring No.:	1	Checked By:	AP	Date:	05/11/17
Sample No.:	15	Depth(ft.):	1-5		
Visual Sample Description:	Fat Clay				

		Compaction Method	X	ASTM D1557
				ASTM D698
METHOD	A	Preparation Method		Moist
MOLD VOLUME (CU.FT)	0.0333		X	Dry

Wt. Comp. Soil + Mold (gm.)	3648	3759	3755	3701		
Wt. of Mold (gm.)	1866	1866	1866	1866		
Net Wt. of Soil (gm.)	1782	1893	1889	1835		
Container No.						
Wt. of Container (gm.)	341.76	476.11	149.55	149.63		
Wet Wt. of Soil + Cont. (gm.)	492.53	583.76	266.81	430.56		
Dry Wt. of Soil + Cont. (gm.)	474.51	568.17	248.13	380.87		
Moisture Content (%)	13.57	16.93	18.95	21.49		
Wet Density (pcf)	117.86	125.20	124.93	121.35		
Dry Density (pcf)	103.77	107.07	105.03	99.88		

Maximum Dry Density (pcf)	**107.1**	Optimum Moisture Content (%)	**17.5**
Maximum Dry Density w/ Rock Correction (pcf)	**N/A**	Optimum Moisture Content w/ Rock Correction (%)	**N/A**

PROCEDURE USED

[X] *METHOD A: Percent of Oversize:* *0.4%*
Soil Passing No. 4 (4.75 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)

[ ] *METHOD B: Percent of Oversize:* *N/A*
Soil Passing 3/8 in. (9.5 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)

[ ] *METHOD C: Percent of Oversize:* *N/A*
Soil Passing 3/4 in. (19.0 mm) Sieve
Mold : 6 in. (152.4 mm) diameter
Layers : 5 (Five)
Blows per layer : 56 (fifty-six)

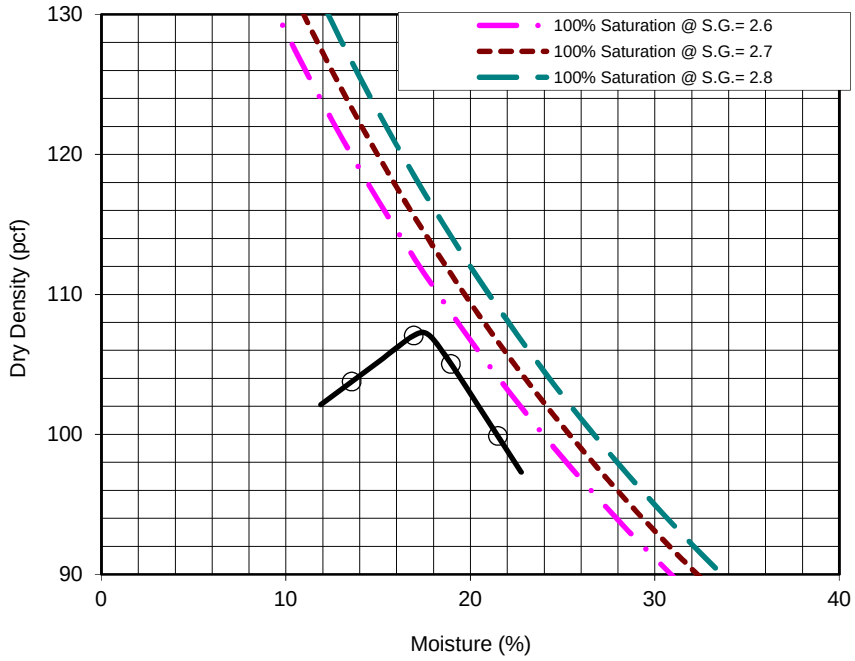

Figure A-5

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EXPANSION INDEX TEST RESULTS

ASTM D 4829

Client Name: AMEC Foster Wheeler
Project Name: LAUSD Taft HS
Project No.: 4953-17-0421

AP Job No.: 17-0506
Date: 05/09/17

Boring No.	Sample No.	Depth (ft)	Soil Description	Molded Dry Density (pcf)	Molded Moisture Content (%)	Init. Degree Saturation (%)	Measured Expansion Index	Corrected Expansion Index
1	15	1-5	Fat Clay	94.0	15.6	53.2	131	134

ASTM EXPANSION CLASSIFICATION

Expansion Index	Classification
0-20	V. Low
21-50	Low
51-90	Medium
91-130	High
>130	V. High

r

BORING NUMBER AND SAMPLE DEPTH:	3 at 1-5'
SOIL TYPE:	SANDY LEAN CLAY
CONFINING PRESSURE: (lbs./sq. ft.)	144
INITIAL MOISTURE CONTENT: (% dry wt.)	11.4
FINAL MOISTURE CONTENT: (% dry wt.)	22.9
DRY DENSITY: (lbs/cu.ft.)	105.7
EXPANSION INDEX:	76

Prepared/Date: JF 5/10/2017
Checked/Date: LH 5/13/2017

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DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com

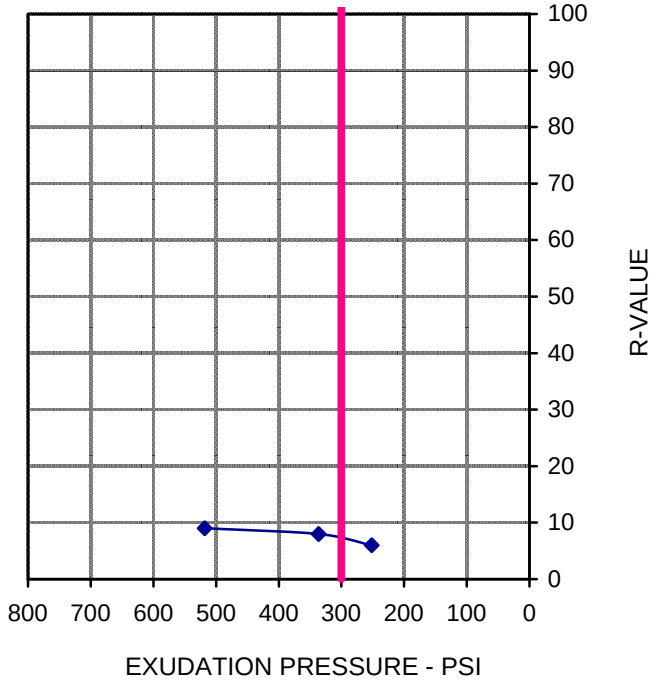
R-VALUE TEST DATA

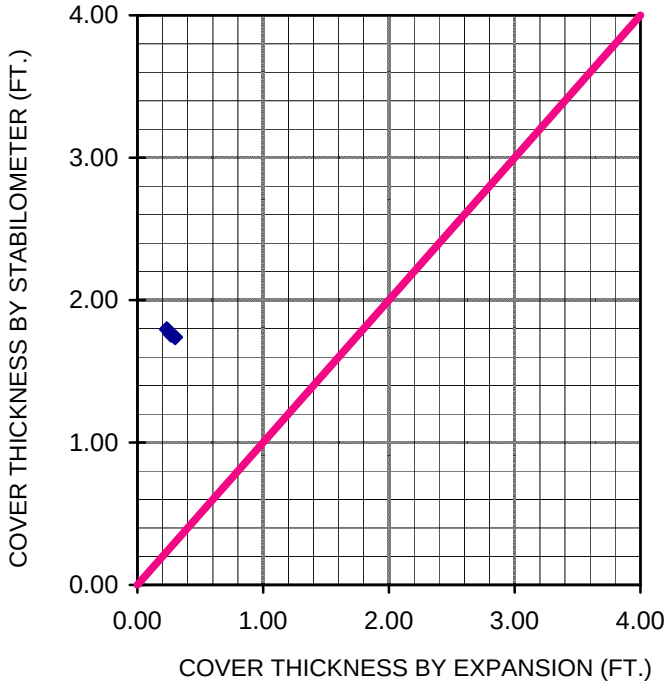
ASTM D2844

Project Name:	LAUSD Taft HS	Tested By:	ST	Date:	05/04/17
Project Number:	4953-17-0421	Computed By:	KM	Date:	05/07/17
Boring No.:	1	Checked By:	AP	Date:	05/11/17
Sample No.:	15	Depth (ft.):	1-5		
Location:	N/A				
Soil Description:	Fat Clay				

Mold Number	A	C	B	
Water Added, g	24	40	60	
Compact Moisture(%)	29.8	31.7	34.1	
Compaction Gage Pressure, psi	70	50	50	
Exudation Pressure, psi	518	336	252	
Sample Height, Inches	2.7	2.7	2.7	
Gross Weight Mold, g	3013	3031	3050	
Tare Weight Mold, g	1967	1965	1967	
Net Sample Weight, g	1045	1066	1083	
Expansion, inchesx10^{-4}	9	8	7	
Stability 2,000 (160 psi)	65/140	65/142	70/144	
Turns Displacement	4.06	4.41	5.03	
R-Value Uncorrected	8	7	5	
R-Value Corrected	9	8	6	
Dry Density, pcf	90.4	90.8	90.7	
Traffic Index	8.0	8.0	8.0	
G.E. by Stability	1.74	1.76	1.80	
G.E. by Expansion	0.30	0.27	0.23	

R-VALUE	By Exudation:	7
	By Expansion:	*N/A
	At Equilibrium: (by Exudation)	7
Remarks	Gf = 1.34, and 0.5 % Retained on the ¾" *Not Applicable	





LaBelle Marvin

R - VALUE DATA SHEET

PROJECT No. 42400

DATE: 5/10/2017

BORING NO. B-3 @ 1'-5'

Proposed School Modernization, Woodland Hills

P.N. 4953-17-0421 LAUSD Taft

SAMPLE DESCRIPTION: Brown Clay

R-VALUE TESTING DATA | CA TEST 301

	SPECIMEN ID		
	a	b	c
Mold ID Number	16	17	18
Water added, grams	78	128	40
Initial Test Water, %	18.7	24.0	14.6
Compact Gage Pressure,psi	40	30	90
Exudation Pressure, psi	334	178	635
Height Sample, Inches	2.65	2.66	2.45
Gross Weight Mold, grams	3051	2981	3019
Tare Weight Mold, grams	1957	1951	1967
Sample Wet Weight, grams	1094	1030	1052
Expansion, Inches x 10exp-4	10	2	65
Stability 2,000 lbs (160psi)	57 / 134	69 / 155	38 / 98
Turns Displacement	3.88	4.12	3.06
R-Value Uncorrected	11	2	34
R-Value Corrected	12	2	34
Dry Density, pcf	105.4	94.6	113.5

DESIGN CALCULATION DATA

Traffic Index	Assumed:	4.0	4.0	4.0
G.E. by Stability		0.90	1.00	0.68
G. E. by Expansion		0.33	0.07	2.17

Equilibrium R-Value	**10** by EXUDATION	Examined & Checked: 5 /10/ 17
REMARKS:	Gf = 1.25 0.0% Retained on the 3/4" Sieve.	REGISTERED PROFESSIONAL ENGINEER STEVEN R. MARVIN C 30659 CIVIL STATE OF CALIFORNIA Steven R. Marvin, RCE 30659

The data above is based upon processing and testing samples as received from the field. Test procedures in accordance with latest revisions to Department of Transportation, State of California, Materials & Research Test Method No. 301.

APPENDIX B

PRIOR FIELD EXPLORATIONS AND LABORATORY TEST RESULTS

PRIOR FIELD EXPLORATIONS AND LABORATORY TEST RESULTS FOR PROJECT NO. 4953-11-1001

BORING 1

DATE DRILLED: July 23, 2011
EQUIPMENT USED: Hollow-Stem Auger
HOLE DIAMETER (in.): 8
ELEVATION: **

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE; REFER TO PLOT PLAN FOR MORE ACCURATE LOCATION INFORMATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	"N" VALUE STD.PEN.TEST	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.		
			11.3	113	14		SM	4-inch thick Asphalt Concrete over 6-inch Base FILL - SILTY SAND - moist, light brown, fine to medium grained, some clay
	5		32.3	84	26		CL	FILL - SANDY CLAY - moist, dark gray to black, with iron stains, some siltstone fragments
			34.8	84	10			Thin layer of emented zone
	10	5	28.8	92	15			Trace organic soil, slight organic odor
	15	22	39.6				CH	Slightly seepage FAT CLAY - stiff, moist, light brown, very fine grained, some rock fragments (LL=77, PI=46)
	20		-	-	8			SILTSTONE - moist, olive, some softer interbeds Light brown
		8						CLAYEY SILTSTONE - moist, light brown, Water seepage
	25		45.9	73	14			
		24						With sandier interbeds
	30		28.9	90	32			SILTSTONE - moist, dark gray, trace fine sand, weakly cemented, micaceous, massive to poorly bedded
	35	60						Weakly cemented
	40		28.3	88	50			END OF BORING AT 40 FEET Water seepage encountered at 15.5 and 24 feet. Heavy seepage encountered at 30.5 feet. Boring backfilled with soil cutting, tamped and patched. **Number of blows required to drive the Crandall Sampler 12 inches using a 140 pound hammer falling 30 inches **Elevation not measured

Field Tech: AR
Prepared By: LH
Checked By: ET

Multi-Purposd Building
William Howard Taft High School
Woodland Hills, California

amec

LOG OF BORING
Project: 4953-11-1001 Figure: A-1.1

B12SOIL_CRANDALL (NO DECIMAL) 4953-11-1001.GPJ LAW_CRAN.GDT 9/21/11

BORING 2

DATE DRILLED: July 23, 2011
EQUIPMENT USED: Hollow-Stem Auger
HOLE DIAMETER (in.): 8
ELEVATION: **

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE; REFER TO PLOT PLAN FOR MORE ACCURATE LOCATION INFORMATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	"N" VALUE STD.PEN.TEST	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.		
			9.5	116	34		ML	3-inch thick Asphalt Concrete over 6-inch thick Base FILL - SANDY SILT - moist, light brown, fine to medium grained sand, some asphalt concrete fragments
	5		20.8	90	19			
			18.7	105	28		CH	FAT CLAY - medium stiff, moist, dark grayish brown, slgihtly porous
	10		18.2	98	29			Light brownish gray in bit, with calcium carbonate stringers
		13	24.9					(LL=65, PI=46)
	15		24.9	97	15			Becomes olive brownish gray
	20	10	18.2	98				
			33.3	86	18			CLAYEY SILTSTONE - soft, moist, light brownish gray, uncemented, with calcium carbonate stringers
	25	13						
	30		6.9	144	50			heavy seepage strongly cemented SILTSTONE - moist, greenish gray,trace thin sandstone interbeds, massive, locally thinly bedded
	35		28.5	88	83			SILTSTONE - moist, trace fine sand, weakly to moderately cemented, with calcium carboante stringers, micaceous, massive END OF BORING AT 35 FEET Water encountered at 29 feet. Boring backfilled with soil cutting, tamped and patched
	40							

Field Tech: AR
Prepared By: LH
Checked By: ET

Multi-Purposd Building
William Howard Taft High School
Woodland Hills, California

amec

LOG OF BORING
Project: 4953-11-1001 Figure: A-1.2

B12SOIL_CRANDALL (NO DECIMAL) 4953-11-1001.GPJ LAW_CRAN.GDT 9/21/11

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve size)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size)	CLEAN GRAVELS (Little or no fines)	GW	Well graded gravels, gravel - sand mixtures, little or no fines.
			GP	Poorly graded gravels or grave - sand mixtures, little or no fines.
		GRAVELS WITH FINES (Appreciable amount of fines)	GM	Silty gravels, gravel - sand - silt mixtures.
			GC	Clayey gravels, gravel - sand - clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 Sieve Size)	CLEAN SANDS (Little or no fines)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES (Appreciable amount of fines)	SM	Silty sands, sand - silt mixtures
			SC	Clayey sands, sand - clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No. 200 sieve size)	SILTS AND CLAYS (Liquid limit LESS than 50)		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts and with slight plasticity.
			CL	Inorganic lays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS (Liquid limit GREATER than 50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils.

Undisturbed Sample		Auger Cuttings	
Standard Penetration Test		Bulk Sample	
Rock Core		Crandall Sampler	
Dilatometer		Pressure Meter	
Packer		No Recovery	
Water Table at time of drilling		Water Table after drilling	

Correlation of Penetration Resistance with Relative Density and Consistency

SAND & GRAVEL		SILT & CLAY	
No. of Blows	Relative Density	No. of Blows	Consistency
0 - 4	Very Loose	0 - 1	Very Soft
5 - 10	Loose	2 - 4	Soft
11 - 30	Medium Dense	5 - 8	Medium Stiff
31 - 50	Dense	9 - 15	Stiff
Over 50	Very Dense	16 - 30	Very Stiff
		Over 30	Hard

BOUNDARY CLASSIFICATIONSSoils possessing characteristics of two groups are designated by combinations of group symbols.

SILT OR CLAY	SAND			GRAVEL		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

No.200 No.40 No.10 No.4 3/4" 3" 12"

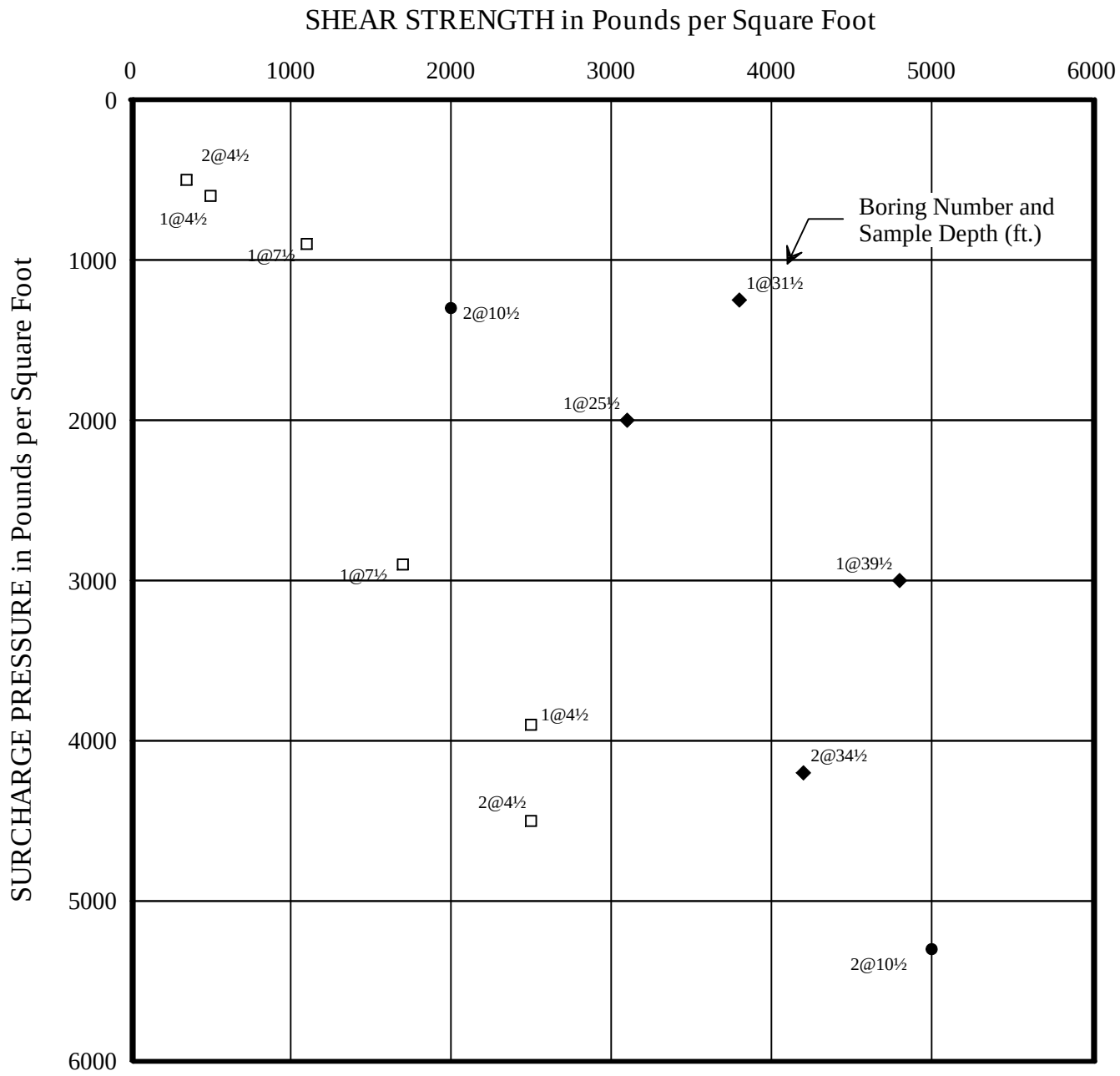
U.S. STANDARD SIEVE SIZE

Reference: The Unified Soil Classification System, Corps of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

KEY TO SYMBOLS AND DESCRIPTIONS

amec

Figure A-2



KEY: ● ◆ Samples tested at field moisture content

□ Samples tested after soaking to a moisture content near saturation.

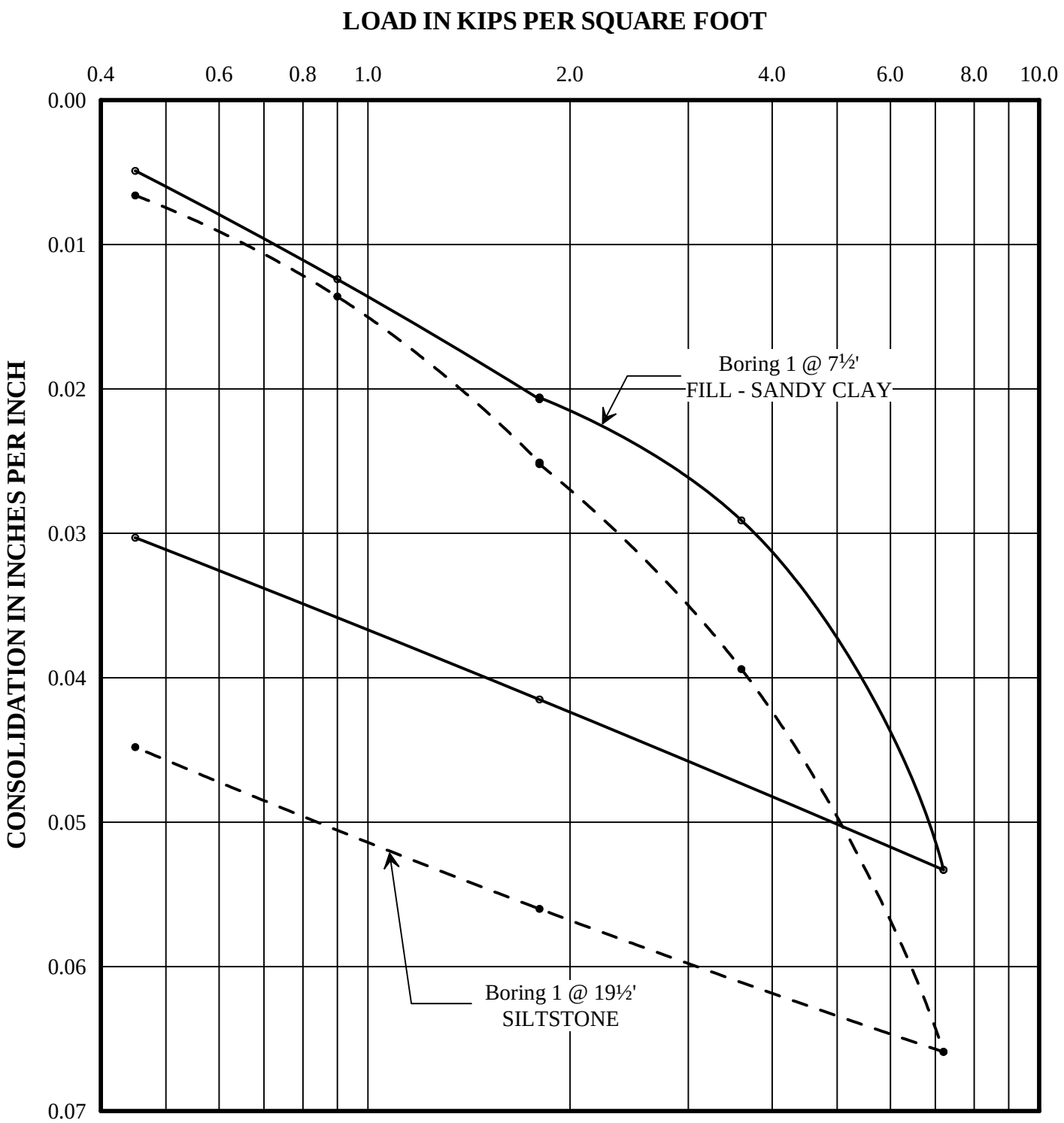
Existing Fill Soils

Bedrock

Natural Soils

Prepared/Date: ET 8/31/11
Checked/Date: LT 8/31/11

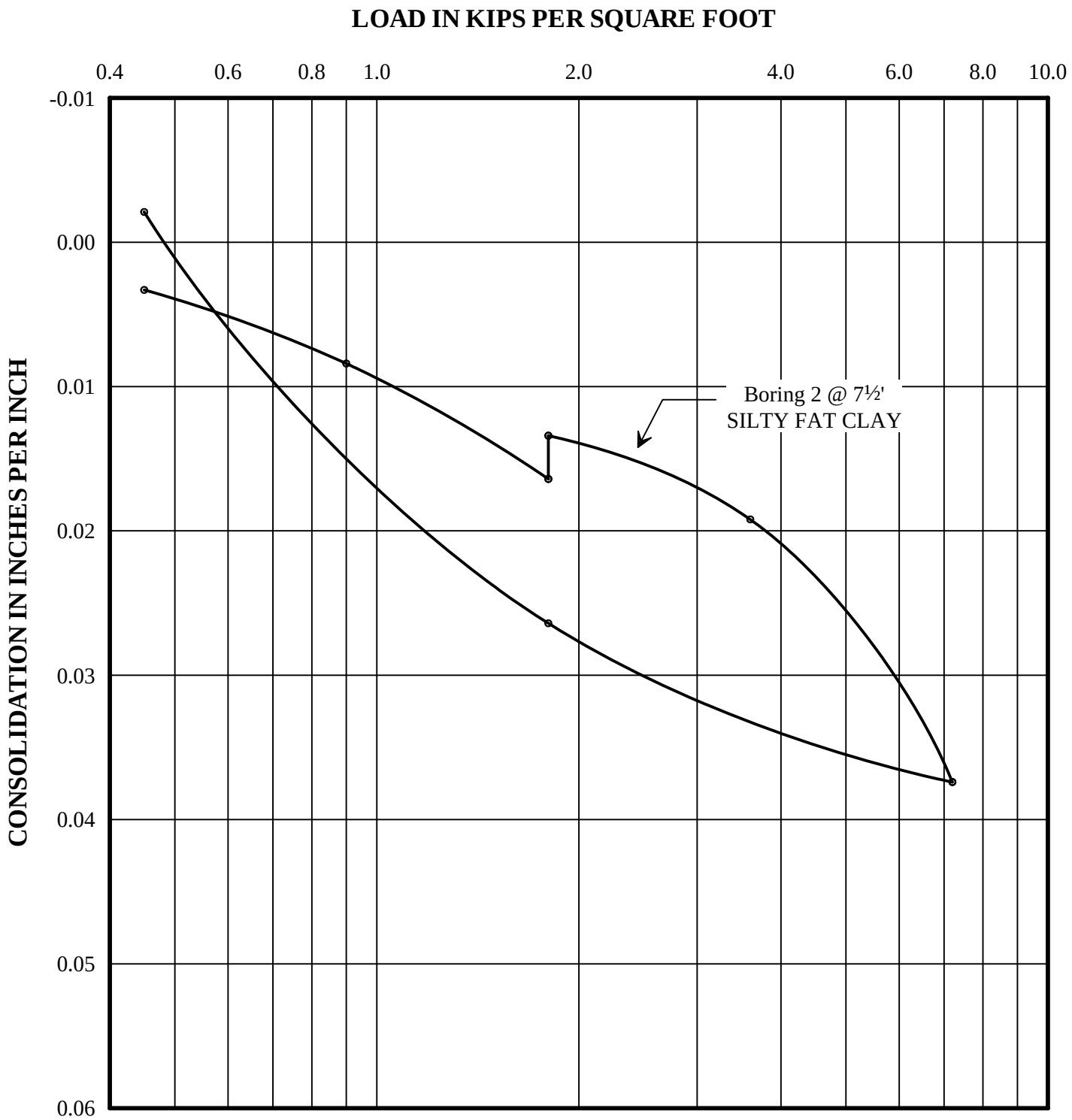
Multi-Purpose Building William Howard Taft High School Woodland Hills, California	amec	DIRECT SHEAR TEST DATA Project No. 4953-11-1001 Figure A-3



Note: Water added to a samples after consolidation under a load of 1.8 kips per square foot.

Prepared/Date: ET 8/31/11
Checked/Date: LT 8/31/11

Multi-Purpose Building William Howard Taft High School Woodland Hills, California	amec	CONSOLIDATION TEST DATA Project 4953-11-1001 Figure A-4.1



Note: Water added to a samples after consolidation under a load of 1.8 kips per square foot.

Prepared/Date: ET 8/31/11
Checked/Date: LT 8/31/11

Multi-Purpose Building William Howard Taft High School Woodland Hills, California	amec	CONSOLIDATION TEST DATA Project 4953-11-1001 Figure A-4.2

BORING NUMBER AND SAMPLE DEPTH:	1 at 5' to 7'
SOIL TYPE:	FILL - SANDY CLAY
MAXIMUM DRY DENSITY: (lbs./cu.ft.)	111
OPTIMUM MOISTURE CONTENT: (%)	19.3

TEST METHOD: ASTM Designation D1557

Prepared/Date: ET 8/31/11
Checked/Date: LT 8/31/11

Multi-Purpose Building William Howard Taft High School Woodland Hills, California	amec	COMPACTION TEST DATA Project 4953-11-1001 Figure A-5

BORING NUMBER AND SAMPLE DEPTH:	1 at 5' to 7'
SOIL TYPE:	FILL - SANDY CLAY
CONFINING PRESSURE: (lbs./sq. ft.)	144
INITIAL MOISTURE CONTENT: (% dry wt.)	14.8
FINAL MOISTURE CONTENT: (% dry wt.)	23.7
DRY DENSITY: (lbs/cu.ft.)	94.5
EXPANSION INDEX:	101

Prepared/Date: ET 8/31/11
Checked/Date: LT 8/31/11

Multi-Purpose Building William Howard Taft High School Woodland Hills, California	amec	EXPANSION INDEX TEST DATA Project 4953-11-1001 Figure A-6

PRIOR FIELD EXPLORATIONS AND LABORATORY TEST RESULTS FOR PROJECT NO. 70313-2-0058.0002

BORING 1

DATE DRILLED: March 25, 2002
EQUIPMENT USED: Rotary Wash
HOLE DIAMETER (in.): 5
ELEVATION: 844 **

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	"N" VALUE STD.PEN.TEST	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.		
			22.3	98	4		CL	FILL - SILTY CLAY - some roots, greyish brown
							CL	SILTY CLAY - greyish brown
840	5	13						
			24.2	97	5			Lenses of Sandy Clay
835	10	6						
			29.1	93	2			Thin layer of Clayey Sand
830	15	13						
825	20		23.8	100	4		CL	SANDY CLAY - brownish grey
820	25	10						
			24.2	98	8		SM	SILTY SAND - fine to medium, some Gravel, brownish grey (29% passing No. 200 seive)
815	30	42						SANDSTONE - with Siltstone interbeds, brownish grey
			32.1	86	30			
810	35	89						END OF BORING AT 35½'
805	40							

NOTE: Drilling mud used in drilling process. Mud removed after completion of drilling. Water measured at a depth of 12', 15 minutes after removal of mud.

* Number of blows required to drive the Crandall sampler 12 inches using a 400 pound hammer falling 30 inches.

** Elevations refer to datum of reference survey. See Site Plan for location of bench mark.

Field Tech: AR
Prepared By: MM
Checked By: MS

William Howard Taft High School
Woodland Hills, California

LAW Crandall
LAWGIBB Group Member

LOG OF BORING
Project: 70131-2-0058.0002 Figure: A-1.1

BORING 2

DATE DRILLED: March 25, 2002
EQUIPMENT USED: Rotary Wash
HOLE DIAMETER (in.): 5
ELEVATION: 852 **

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	"N" VALUE STD.PEN.TEST	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.		
850			46.1	72	2		CL	FILL - SILTY CLAY - some Siltstone fragments, light brown
	5	5						Dark grey
845			26.2	97	2		CL	SILTY CLAY - dark grey to black
	10	9						
840			25.8	93	7			Some Sand
	15	6						
835			24.5	97	3		CL	SANDY CLAY - dark grey to black
	20							
830		2					ML	SANDY SILT - brown (60% passing No. 200 sieve)
	25		33.8	88	3			Lenses of Silty Sand (too Sandy to obtain Atterberg Limits)
825		4					CL	SANDY CLAY - light brownish grey
	30		42.7	77	13			SILTSTONE - well bedded, fractured, light brown
820								
	35	65						
815								END OF BORING AT 40'
	40		34.2	82	30			

NOTE: Drilling mud used in the drilling process. Mud removed after completion of drilling. Water measured at a depth of 21', 10 minutes after removal of mud.

Field Tech: AR
Prepared By: MM
Checked By: MM

William Howard Taft High School
Woodland Hills, California

LAW Crandall
LAWGIBB Group Member

LOG OF BORING
Project: 70131-2-0058.0002 Figure: A-1.2

B12SOIL CRANDALL 20058-02.GPJ LAW CRAN.GDT 4/8/02

BORING 3

DATE DRILLED: March 25, 2002
EQUIPMENT USED: Rotary Wash
HOLE DIAMETER (in.): 5
ELEVATION: 857 **

ELEVATION (ft)	DEPTH (ft)	"N" VALUE STD.PEN.TEST	MOISTURE (% of dry wt.)	DRY DENSITY (pcf)	BLOW COUNT* (blows/ft)	SAMPLE LOC.	
855			33.4	80	7		1¾" Asphaltic Paving - 5" Base Course CL FILL - SILTY CLAY - some Siltstone fragments, brown
	5	8					Dark grey
850			28.2	92	7		CL SILTY CLAY - dark grey
	10	14					Light greyish brown
845			27.9	94	8		
	15	8					Some Siltstone fragments
840							SILTSTONE - slightly weathered, well bedded, light brown
	20		46.4	73	6		
835		15					
	25		43.5	77	17		
830							END OF BORING AT 27'
	30						
825							
	35						
820							
	40						

NOTE: Drilling mud used in the drilling process. Mud removed after completion of drilling. Water measured at a depth of 19', 15 minutes after removal of mud.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Field Tech: AR
Prepared By: MM
Checked By: MM

William Howard Taft High School
Woodland Hills, California

LAW Crandall
LAWGIBB Group Member

LOG OF BORING
Project: 70131-2-0058.0002 Figure: A-1.3

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve size)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size)	CLEAN GRAVELS (Little or no fines)	GW	Well graded gravels, gravel - sand mixtures, little or no fines.
			GP	Poorly graded gravels or grave - sand mixtures, little or no fines.
		GRAVELS WITH FINES (Appreciable amount of fines)	GM	Silty gravels, gravel - sand - silt mixtures.
			GC	Clayey gravels, gravel - sand - clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 Sieve Size)	CLEAN SANDS (Little or no fines)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES (Appreciable amount of fines)	SM	Silty sands, sand - silt mixtures
			SC	Clayey sands, sand - clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No. 200 sieve size)	SILTS AND CLAYS (Liquid limit LESS than 50)		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts and with slight plasticity.
			CL	Inorganic lays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS (Liquid limit GREATER than 50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils.

Undisturbed Sample	Auger Cuttings
Split Spoon Sample	Bulk Sample
Rock Core	Crandall Sampler
Dilatometer	Pressure Meter
Packer	No Recovery
Water Table at time of drilling	Water Table after 24 hours

Correlation of Standard Penetration Test (SPT) Resistance with Relative Density and Consistency

SAND & GRAVEL		SILT & CLAY	
No. of Blows	Relative Density	No. of Blows	Consistency
0 - 4	Very Loose	0 - 1	Very Soft
5 - 10	Loose	2 - 4	Soft
11 - 30	Medium Dense	5 - 8	Medium Stiff
31 - 50	Dense	9 - 15	Stiff
Over 50	Very Dense	16 - 30	Very Stiff
		Over 31	Hard

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

SILT OR CLAY	SAND			GRAVEL		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

No.200 No.40 No.10 No.4 3/4" 3" 12"

U.S. STANDARD SIEVE SIZE

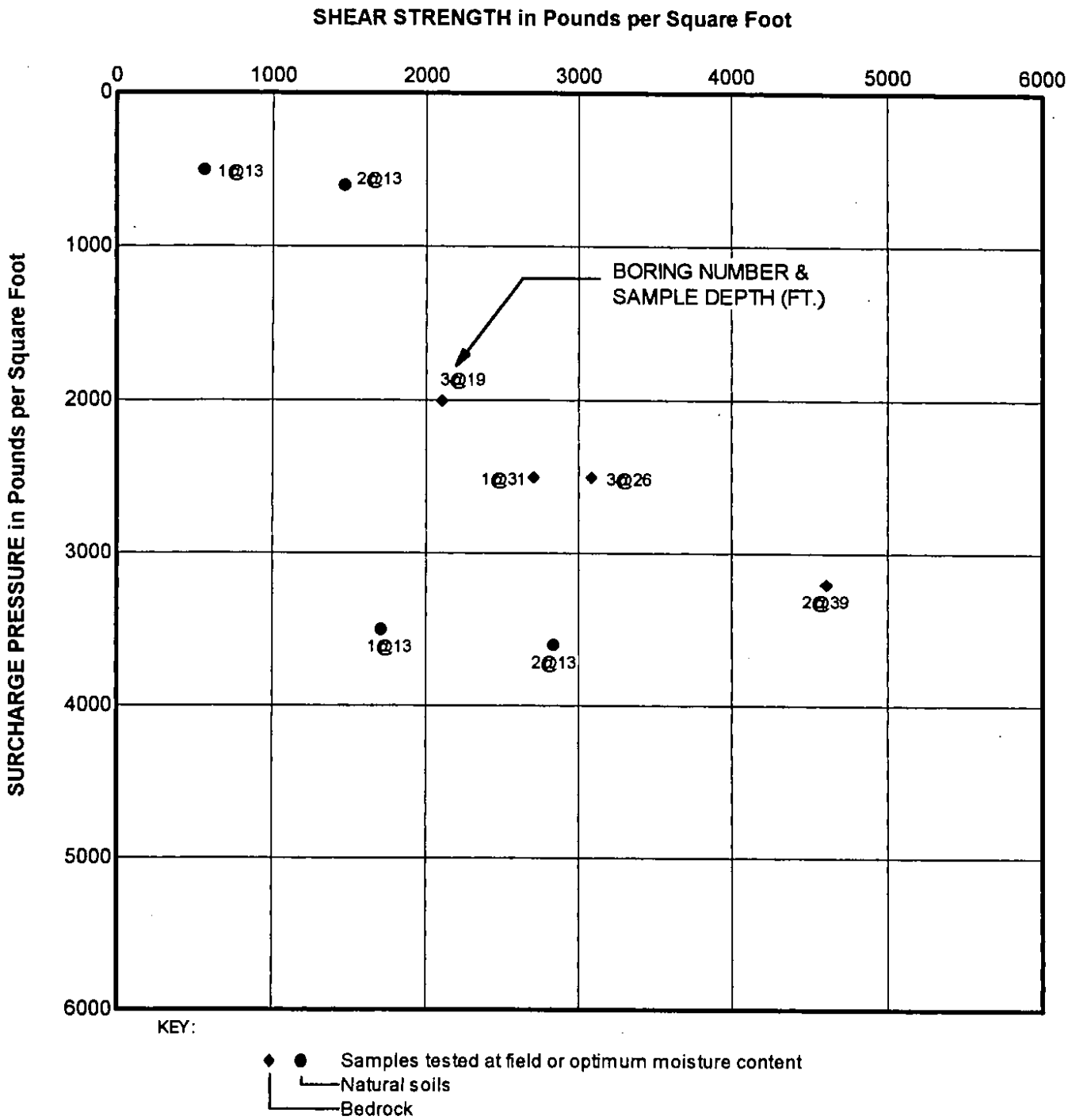
Reference: The Unified Soil Classification System, Corps of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

KEY TO SYMBOLS AND DESCRIPTIONS

LAW

LAWGIBB Group Member

FIGURE A-2



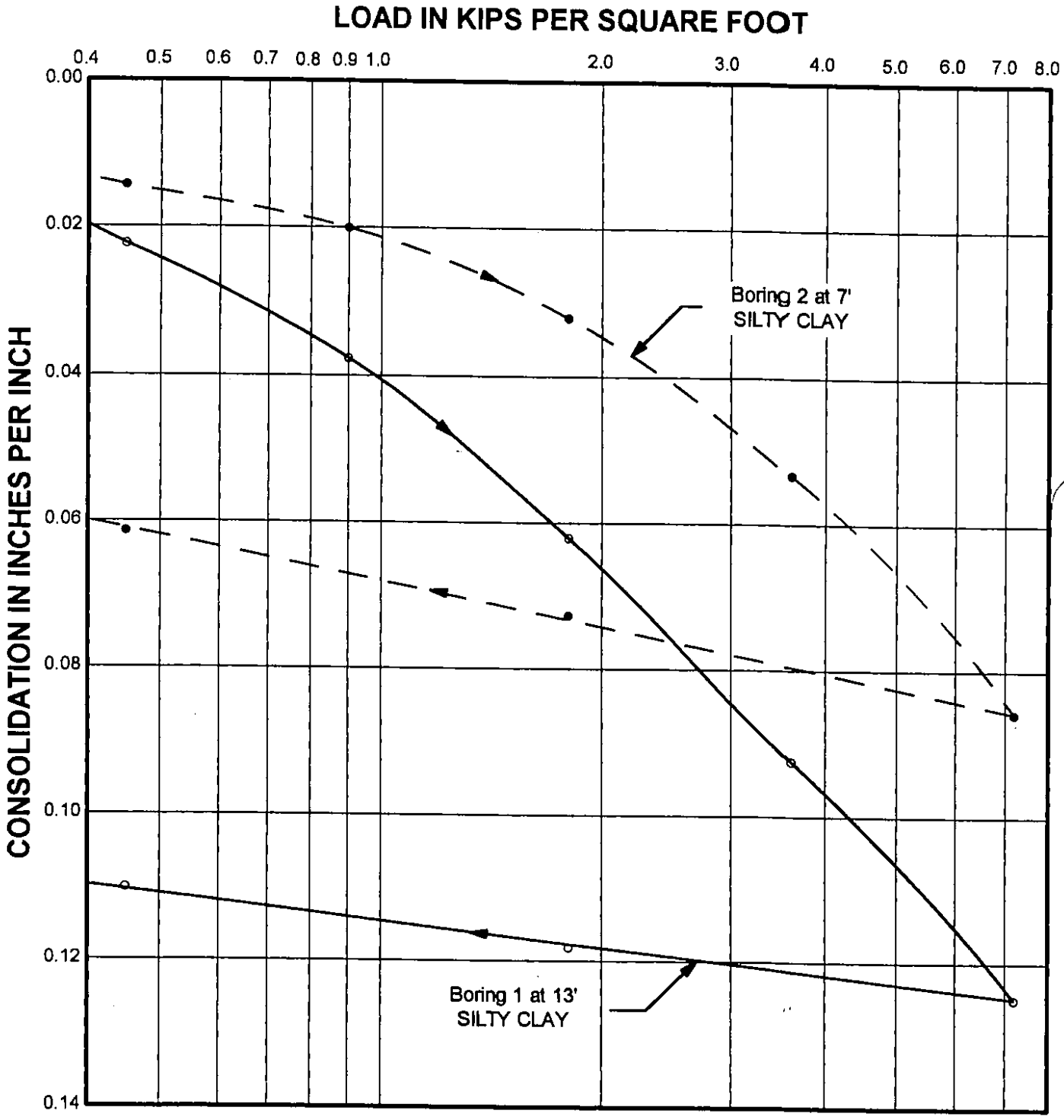
JOB 70131-2-0058.0002 DATE 4/8/02 DR MM OE MS CHKD

DIRECT SHEAR TEST DATA

LAW/CRANDALL

FIGURE A - 3

JOB 70131-2-0058.0002 DATE 04/08/02 DR MM OE MS CHKD MJ



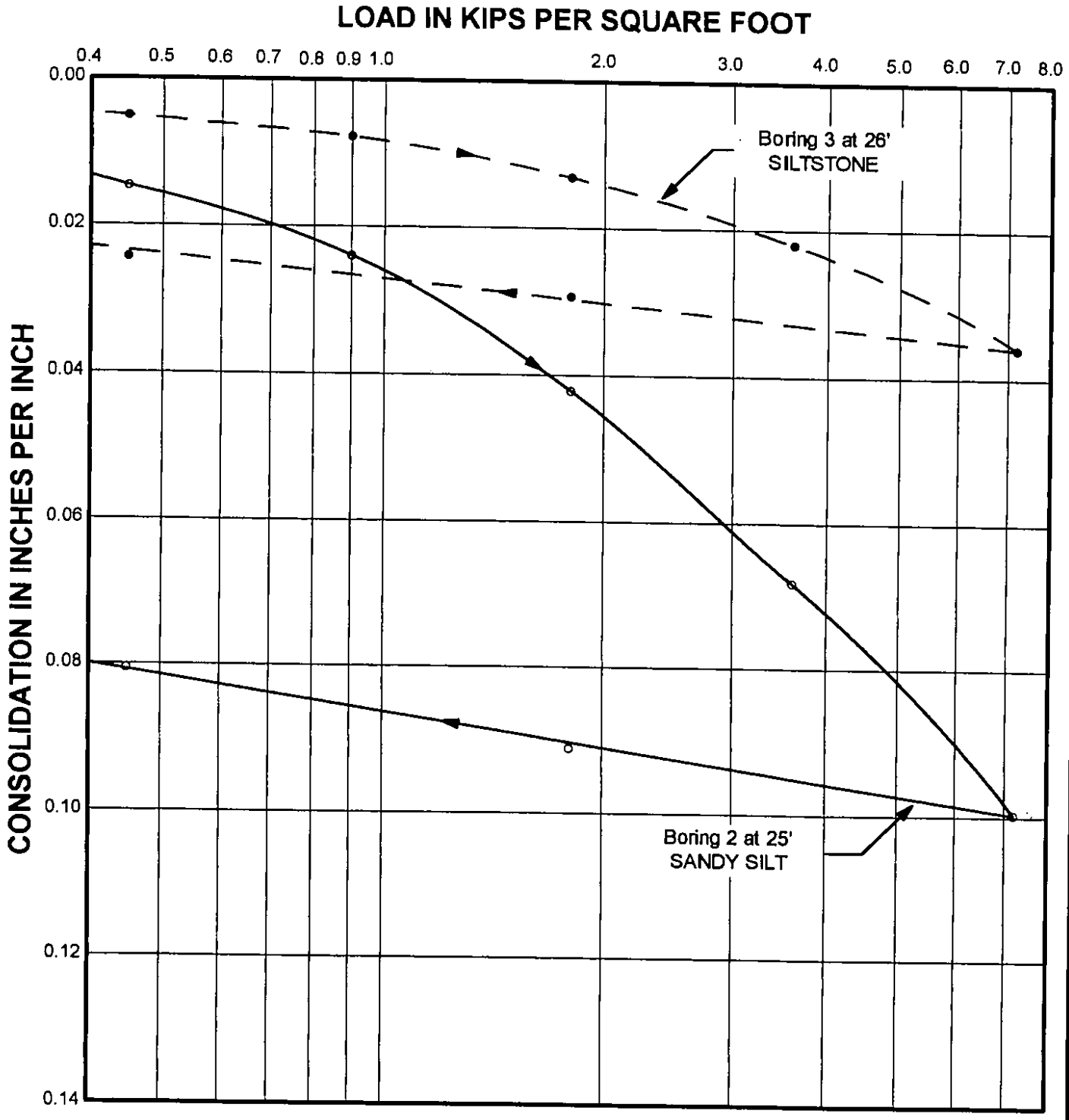
NOTE: Samples tested at field moisture content.

CONSOLIDATION TEST DATA

LAW/CRANDALL

FIGURE A - 4.1

JOB 70131-2-0058.0002 DATE 04/08/02 DR MM OE MS CHKD MS



NOTE: Samples tested at field moisture content.

CONSOLIDATION TEST DATA

LAW/CRANDALL

FIGURE A - 4.2

JOB 70131-2-0058.0002 DATE 4/8/02 DR MM OE MS CHKD

BORING NUMBER AND SAMPLE DEPTH:	2 at 2' to 5'
SOIL TYPE:	FILL - SILTY CLAY AND SILTSTONE FRAGEMENTS
CONFINING PRESSURE: (lbs./sq.ft.)	144
INITIAL MOISTURE CONTENT: (% of dry wt.)	17.1
FINAL MOISTURE CONTENT: (% of dry wt.)	40.1
DRY DENSITY: (lbs./cu.ft.)	89
EXPANSION INDEX:	64

TEST METHOD: ASTM Designation D4829-88

EXPANSION INDEX TEST DATA

LAW/CRANDALL

FIGURE A - 5

PRESENTATION OF CONE PENETRATION TEST DATA

TAFT HIGH SCHOOL

WOODLAND HILLS, CALIFORNIA

Prepared for:

MACTEC
Los Angeles, California

Prepared by:

GREGG IN SITU, INC.
Signal Hill, California
02-294sh

Prepared on:

November 18, 2002

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- References

ATTACHMENTS

- Interpretation Method
- Computer Diskette with ASCII Files

PRESENTATION OF CONE PENETRATION TEST DATA

1.0 INTRODUCTION

This report presents the results of a Cone Penetration Testing (CPT) program carried out at the Taft High School site located in Woodland Hills, CA. The work was performed on November 11th, 2002. The scope of work was performed as directed by Mactec personnel.

2.0 FIELD EQUIPMENT & PROCEDURES

The Cone Penetration Tests (CPT) were carried out by GREGG IN SITU, INC. of Signal Hill, CA using an integrated electronic cone system. The CPT soundings were performed in accordance with ASTM standards (D 5778-95). A 20 ton capacity cone was used for all of the soundings (figure 1). This cone has a tip area of 15 cm^2 and friction sleeve area of 225 cm^2. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cones used during the program recorded the following parameters at 5 cm depth intervals:

- Tip Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (U)

The above parameters were printed simultaneously on a printer and stored on a computer diskette for future analysis and reference.

The pore water pressure element was located directly behind the cone tip. The pore water pressure element was 5.0 mm thick and consisted of porous plastic. Each of the elements were saturated in silicon oil under vacuum pressure prior to penetration. Pore pressure dissipations were recorded at 5 second intervals when appropriate during pauses in the penetration.

A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

The cones were pushed using GREGG IN SITU's CPT rig, having a down pressure capacity of approximately 20 tons. Six CPT soundings were performed. The penetration tests were carried to depths of approximately 44 feet below ground surface. Test locations and depths were determined in the field by Mactec personnel.

3.0 CONE PENETRATION TEST DATA & INTERPRETATION

The cone penetration test data is presented in graphical form. Penetration depths are referenced to existing ground surface. This data includes CPT logs of measured soil parameters and a computer tabulation of interpreted soil types along with additional geotechnical parameters and pore pressure dissipation data.

The stratigraphic interpretation is based on relationships between cone bearing (qc), sleeve friction (fs), and penetration pore pressure (U). The friction ratio (Rf), which is sleeve friction divided by cone bearing, is a calculated parameter which is used to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone bearing and generate large excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little in the way of excess pore water pressures.

Pore Pressure Dissipation Tests (PPDT's) were taken at various intervals in order to measure hydrostatic water pressures and approximate depth to groundwater table. In addition, the PPDT data can be used to estimate the horizontal permeability (k_h) of the soil. The correlation to permeability is based on the time required for 50 percent of the measured dynamic pore pressure to dissipate (t_{50}). The PPDT correlation figure (figure 2) is provided in the Appendix.

The interpretation of soils encountered on this project was carried out using recent correlations developed by Robertson et al, 1990. It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and U. In these situations, experience and judgement and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type. The soil classification chart (figure 3) used to interpret soil types based on qc and Rf is provided in the Appendix.

Interpreted output requires that depth of water be entered for calculation purposes, where depth to water is unknown an arbitrary depth in excess of 10 feet of the deepest sounding is entered as the groundwater depth.

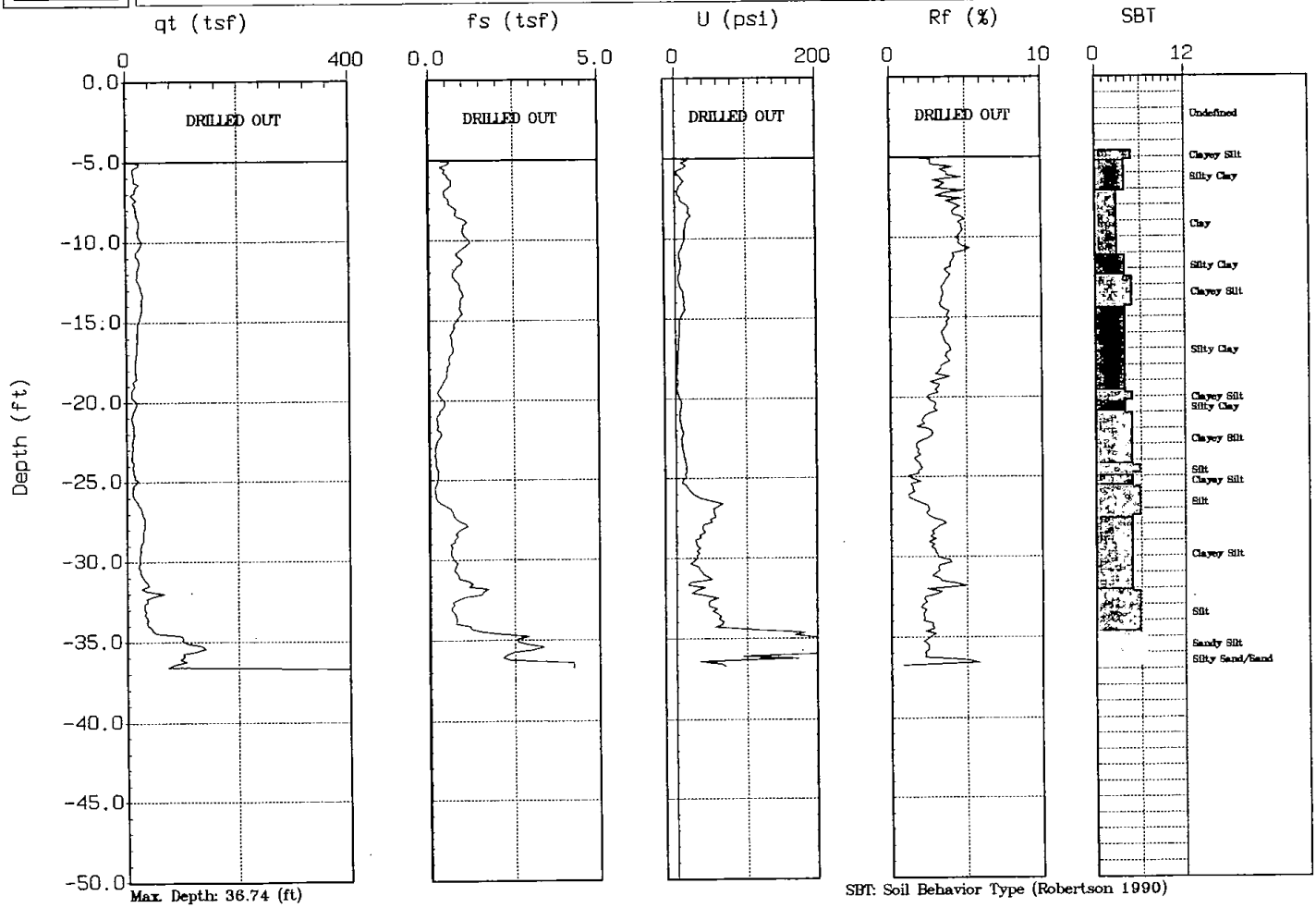
3.1 CPT PLOTS

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-01

Engineer : MARK MURPHY
Date : 11:11:02 09:19



Max. Depth: 36.74 (ft)

Depth Inc.: 0.164 (ft)

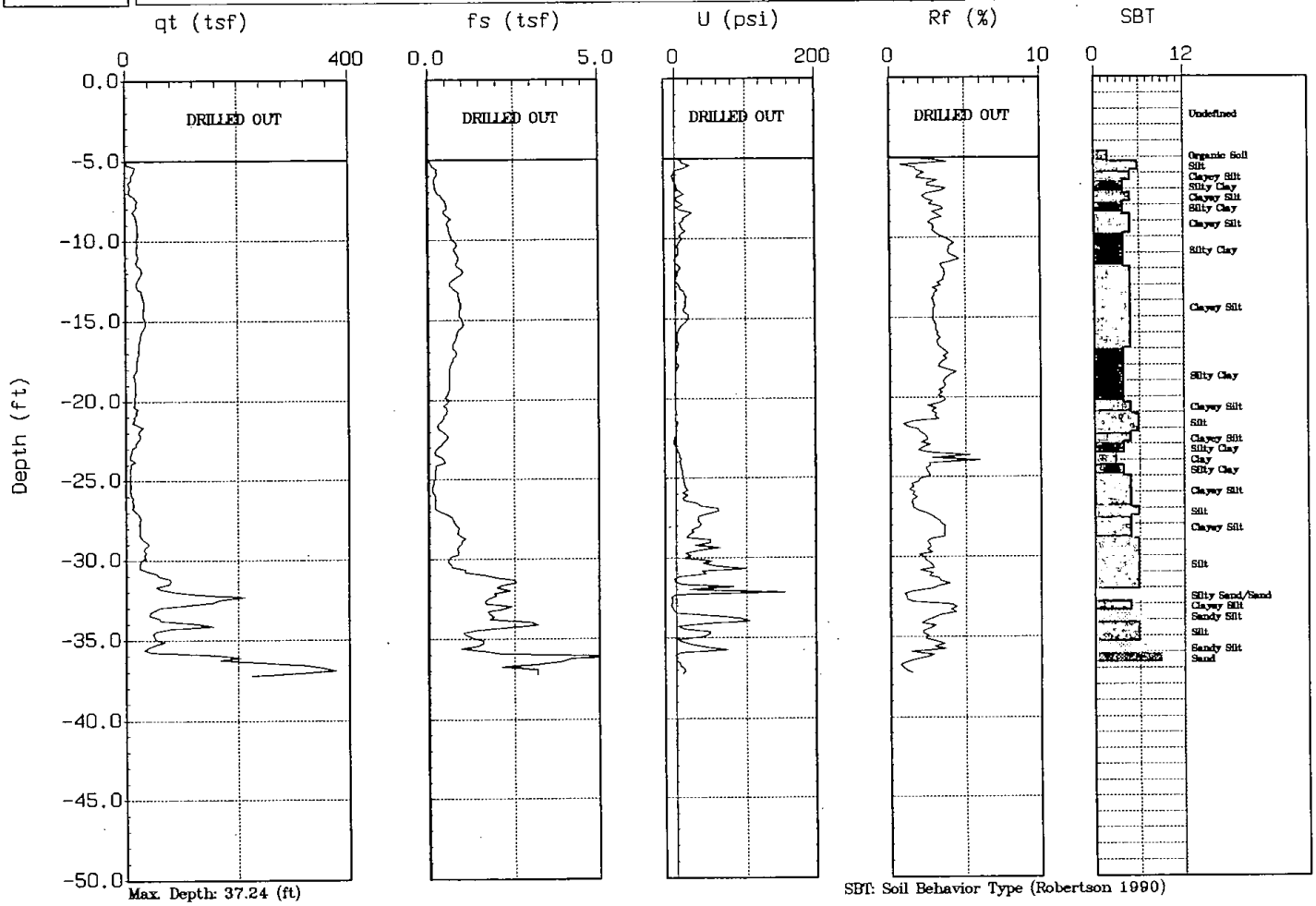
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-02

Engineer : MARK MURPHY
Date : 11:11:02 09:58



Max. Depth: 37.24 (ft)

Depth Inc.: 0.164 (ft)

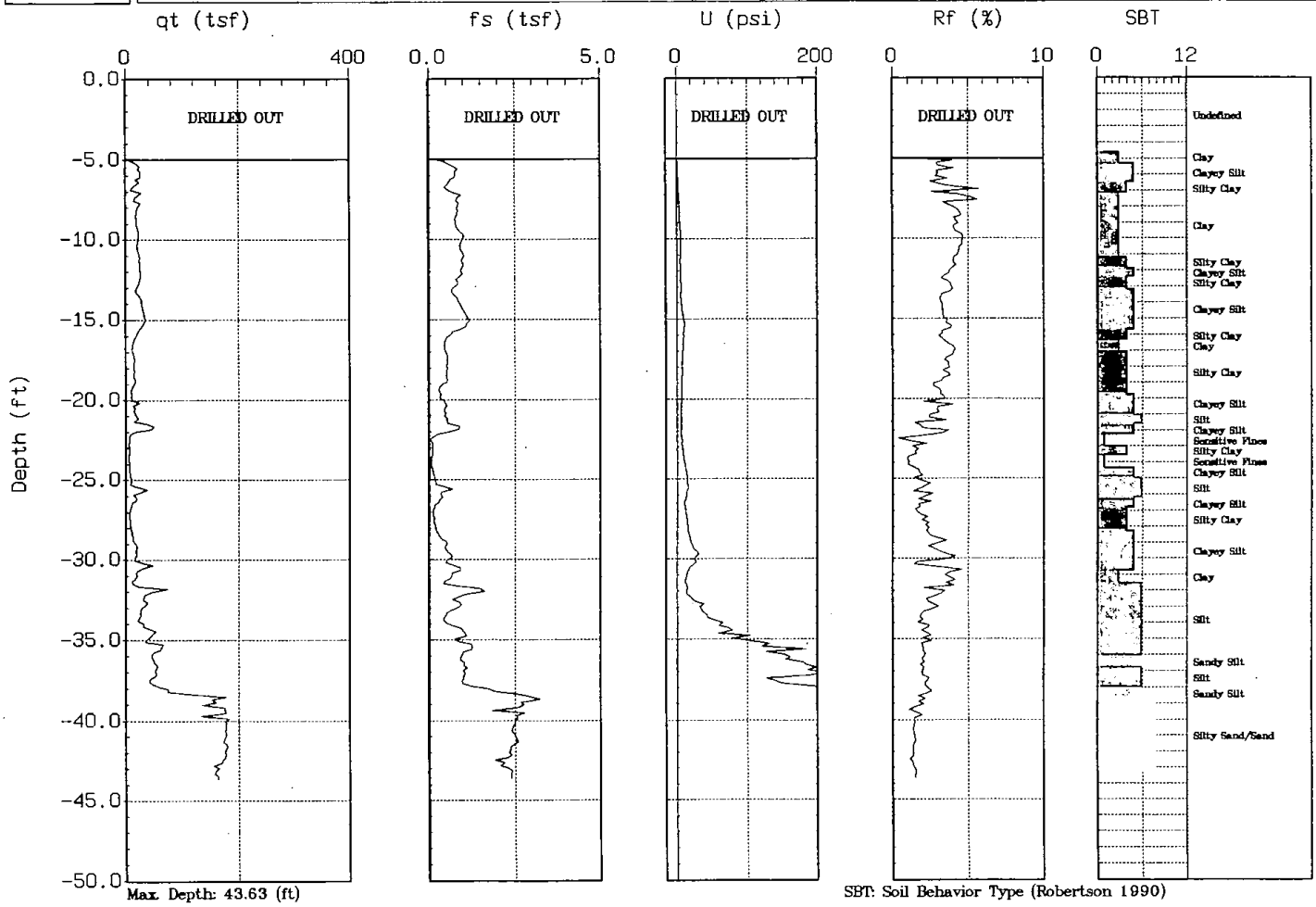
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-3

Engineer : MARK MURPHY
Date : 11:11:02 11:07



Max. Depth: 43.63 (ft)

Depth Inc.: 0.164 (ft)

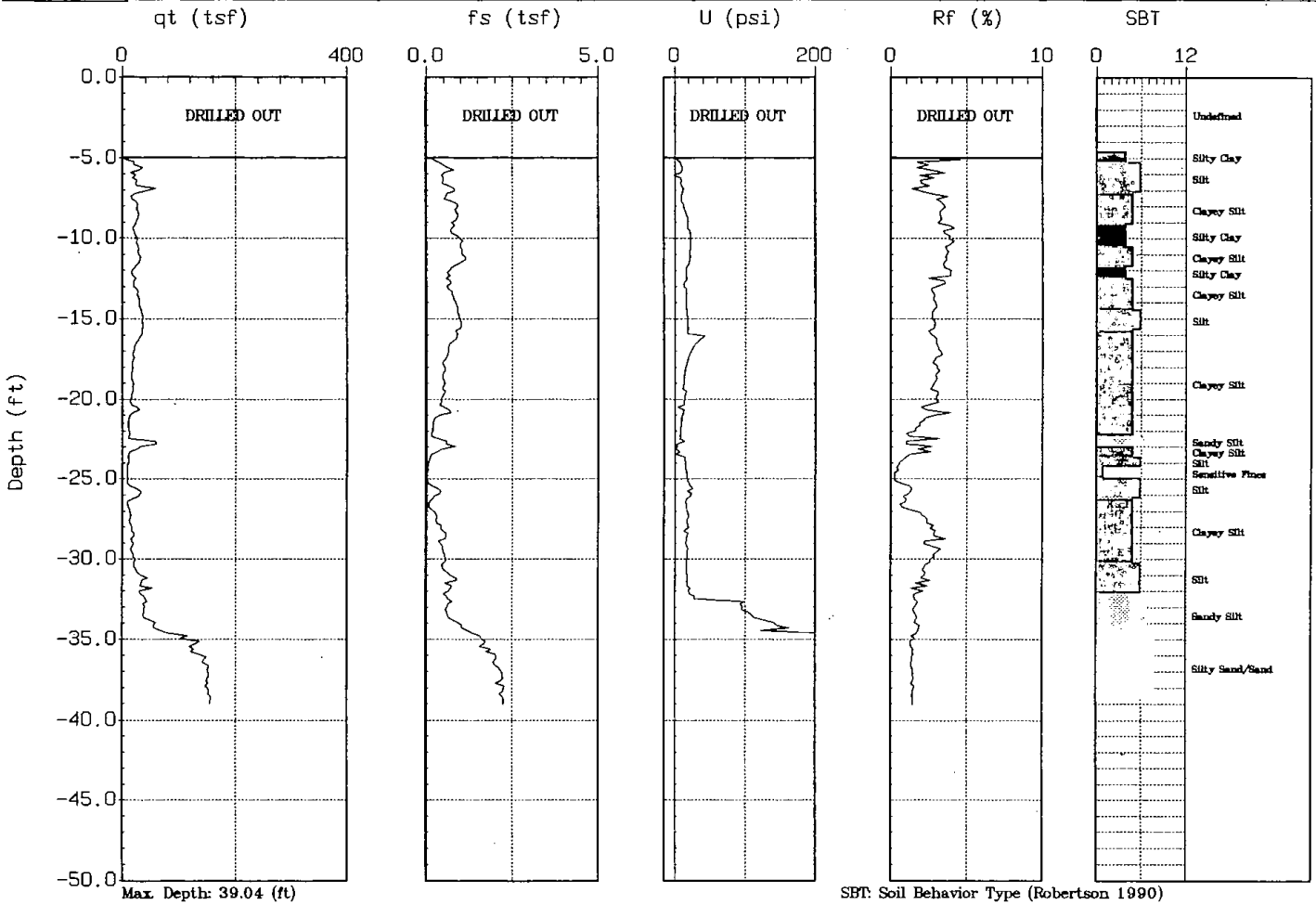
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-04

Engineer : MARK MURPHY
Date : 11:11:02 12:38



Max. Depth: 39.04 (ft)

Depth Inc.: 0.164 (ft)

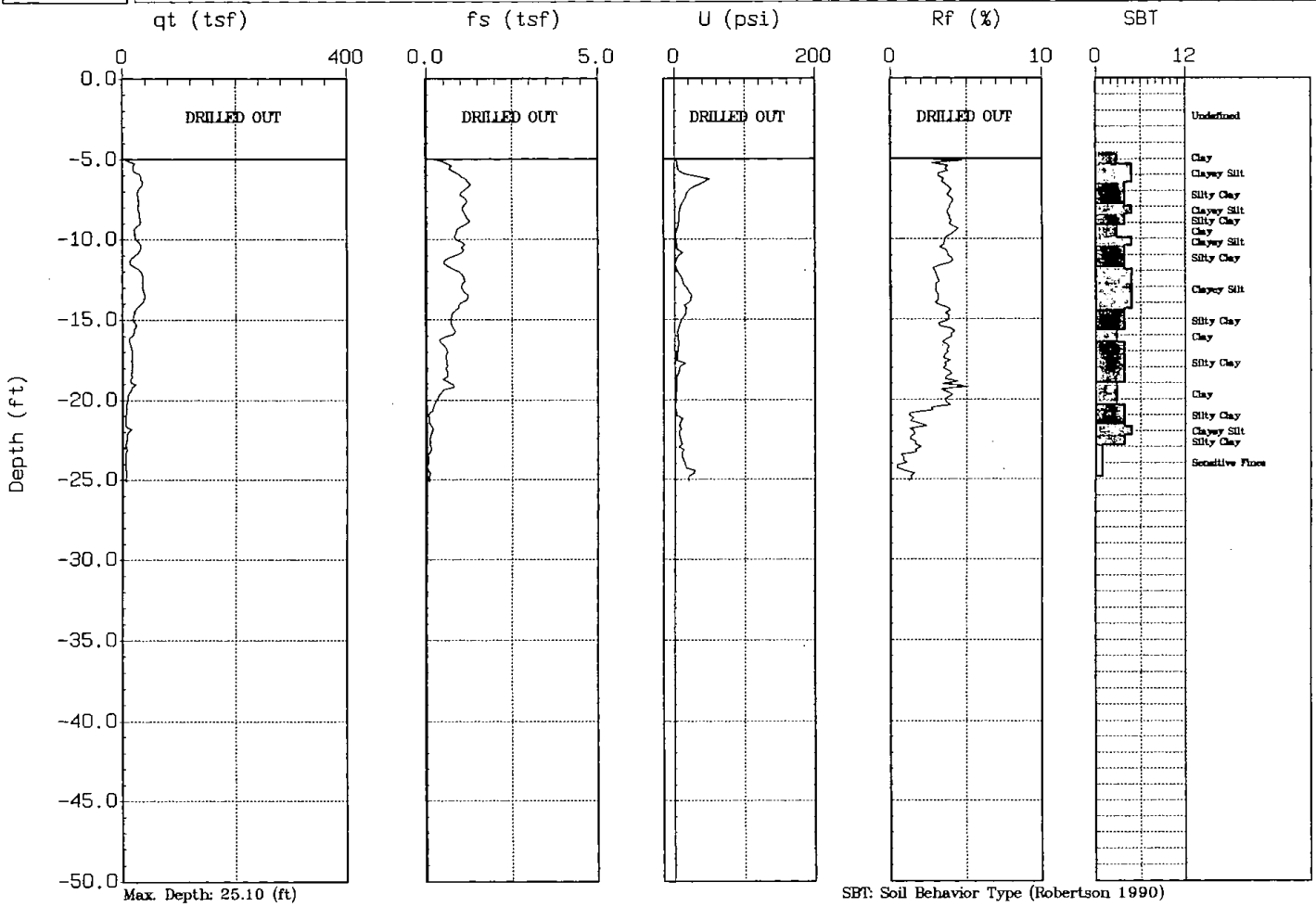
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-05

Engineer : MARK MURPHY
Date : 11:11:02 13:06



Max. Depth: 25.10 (ft)

Depth Inc.: 0.164 (ft)

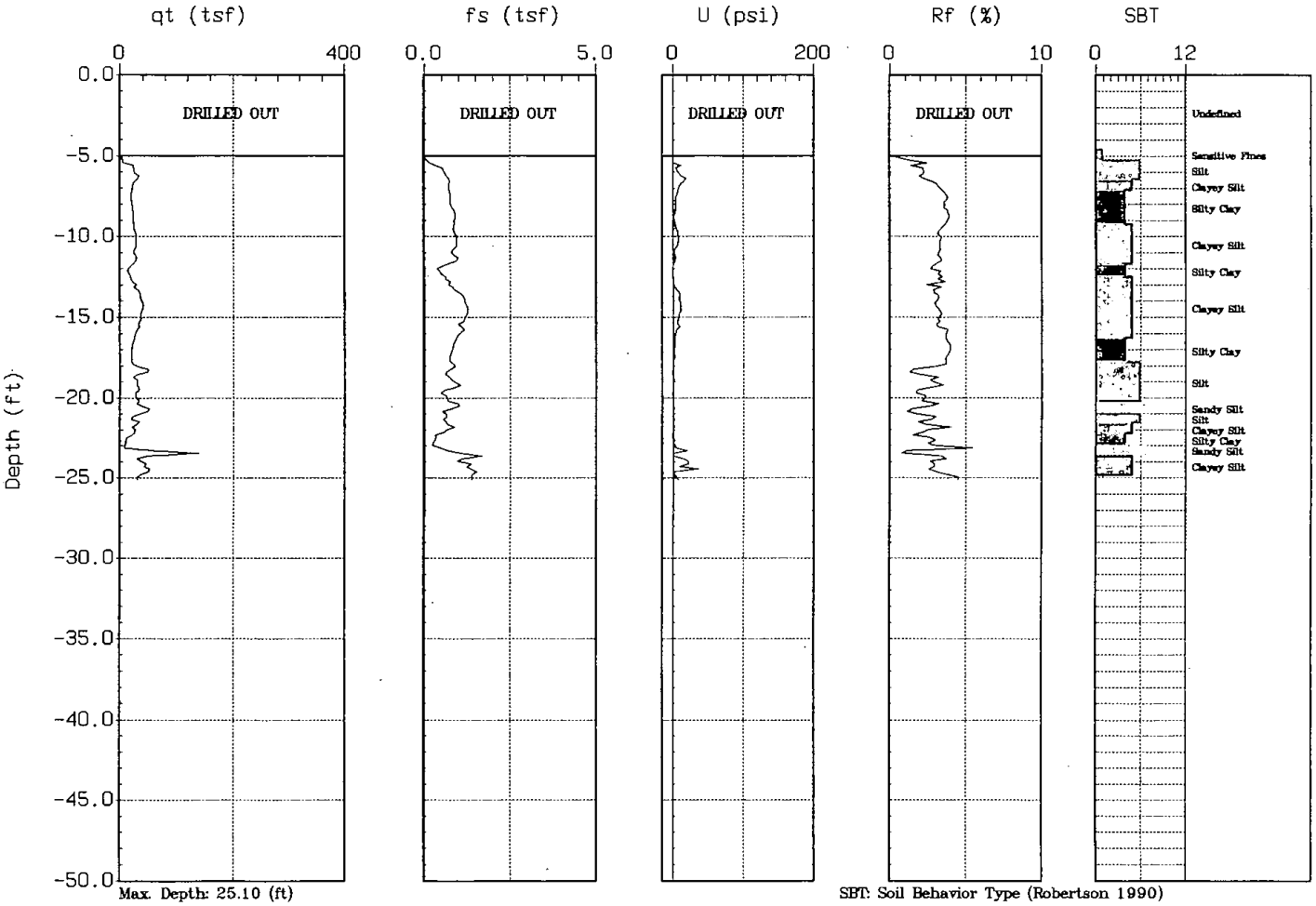
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-06

Engineer : MARK MURPHY
Date : 11:11:02 13:29



Max. Depth: 25.10 (ft)

Depth Inc.: 0.164 (ft)

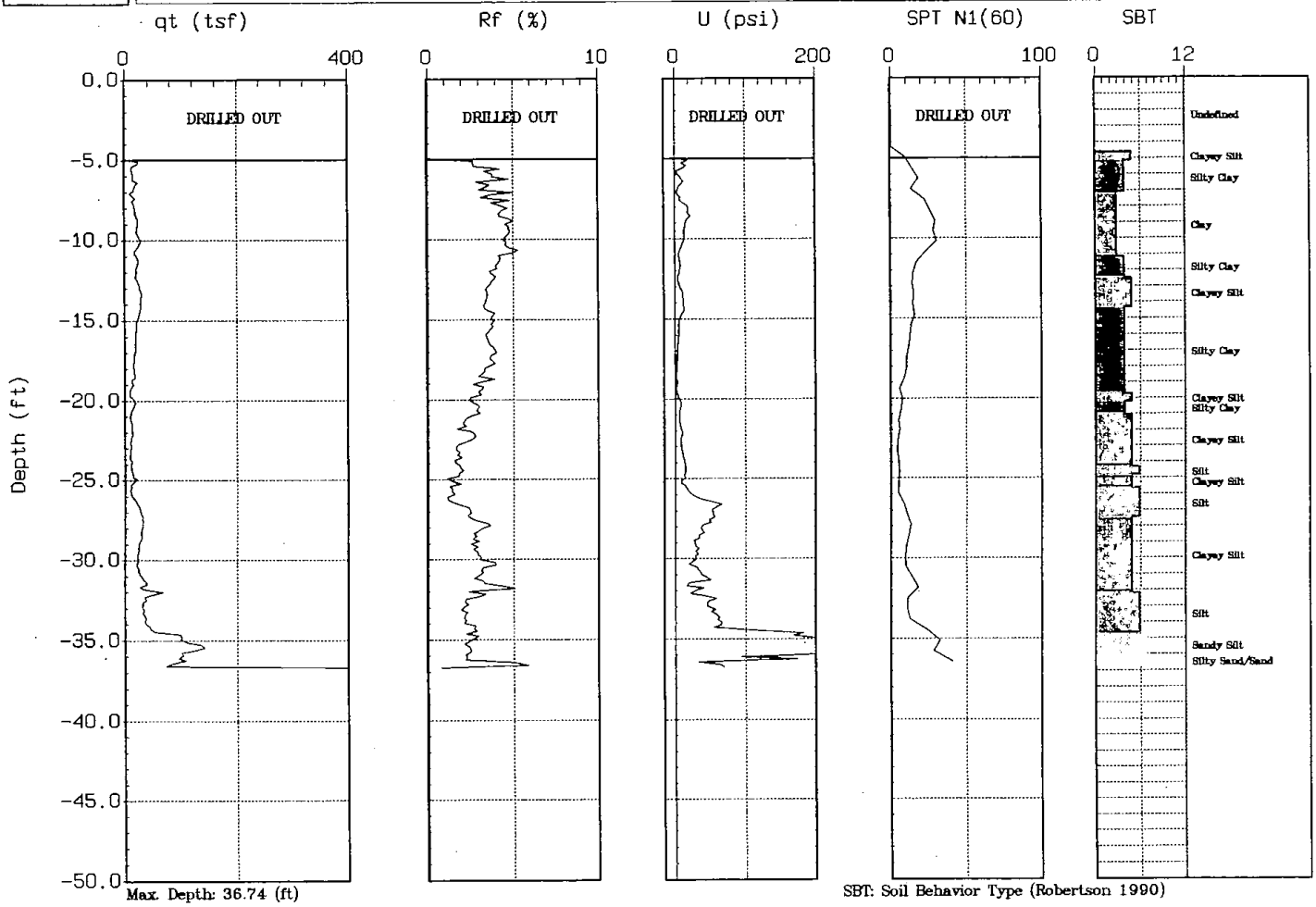
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-01

Engineer : MARK MURPHY
Date : 11:11:02 09:19



Max. Depth: 36.74 (ft)

Depth Inc.: 0.164 (ft)

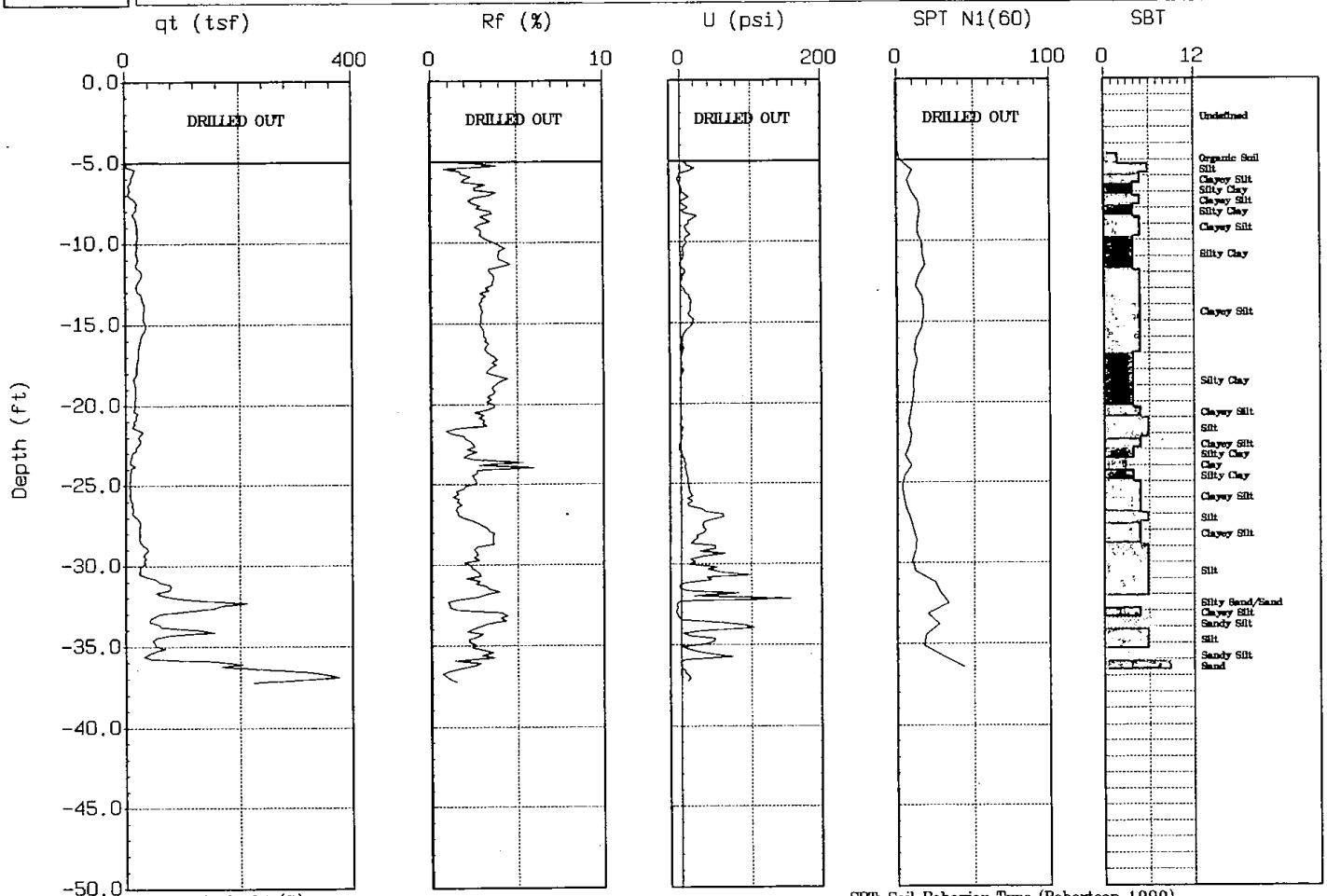
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-02

Engineer : MARK MURPHY
Date : 11:11:02 09:58



Max. Depth: 37.24 (ft)

Depth Inc.: 0.164 (ft)

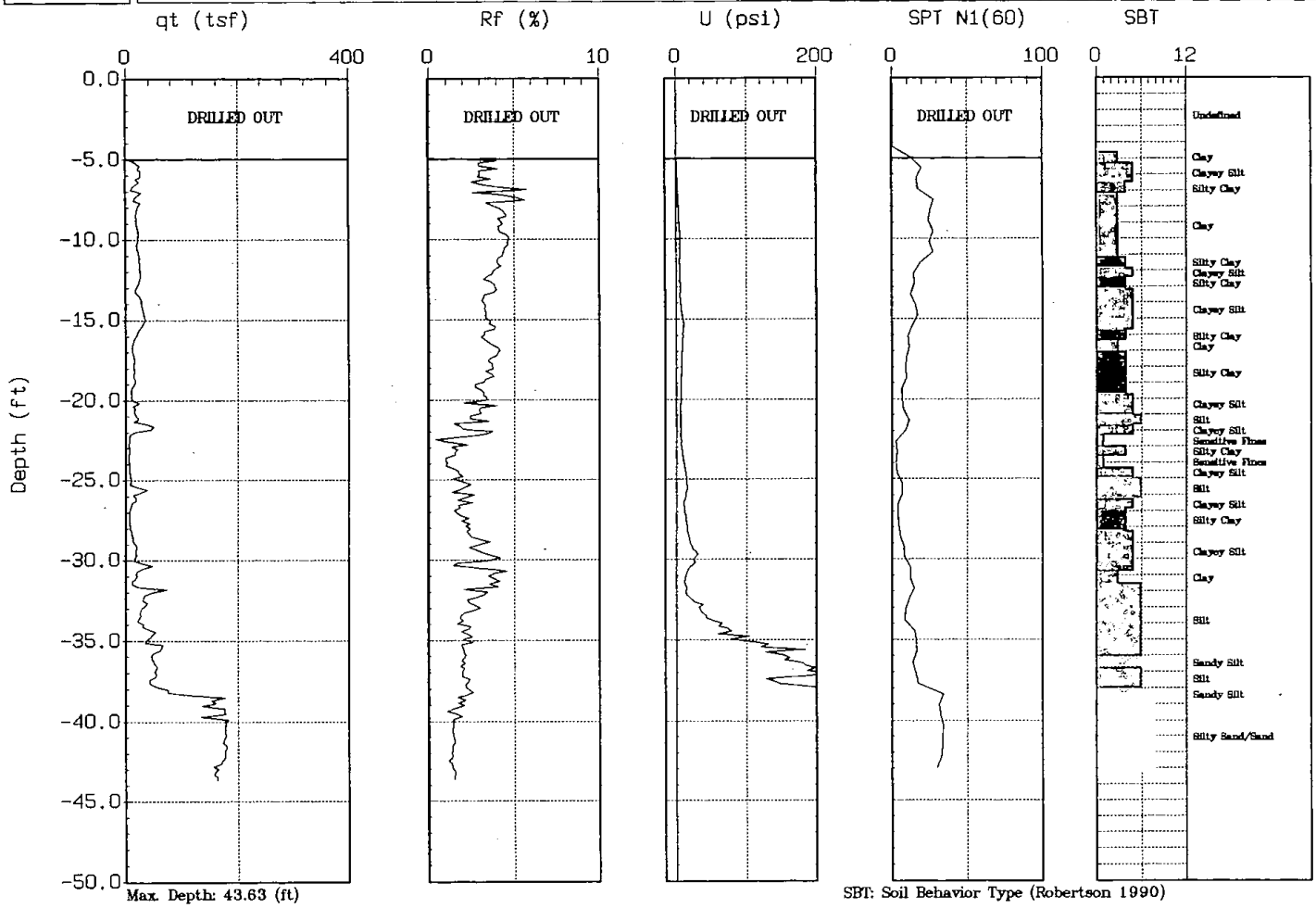
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-3

Engineer : MARK MURPHY
Date : 11:11:02 11:07



Max. Depth: 43.63 (ft)

Depth Inc.: 0.164 (ft)

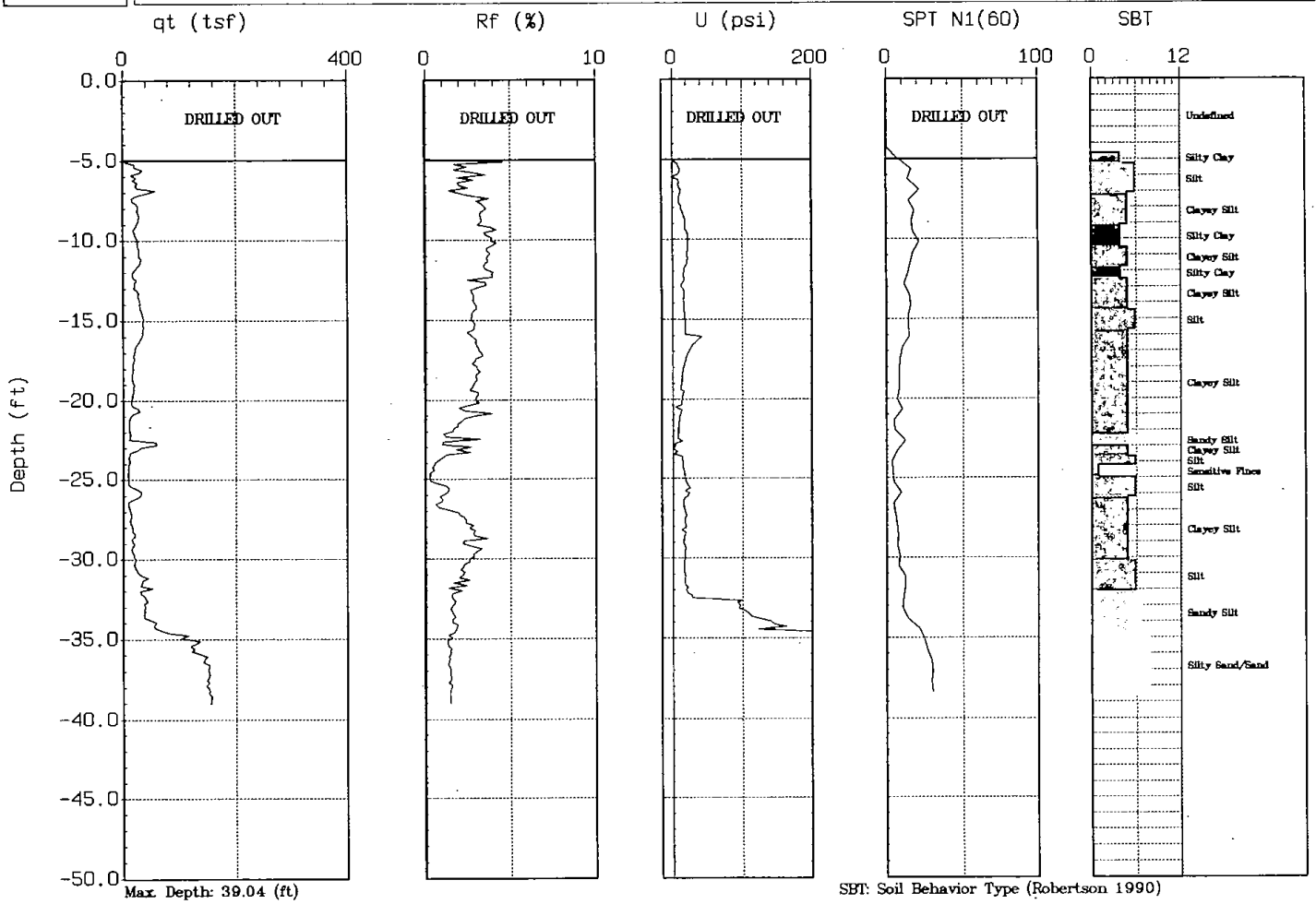
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-04

Engineer : MARK MURPHY
Date : 11:11:02 12:38



Max. Depth: 39.04 (ft)

Depth Inc.: 0.164 (ft)

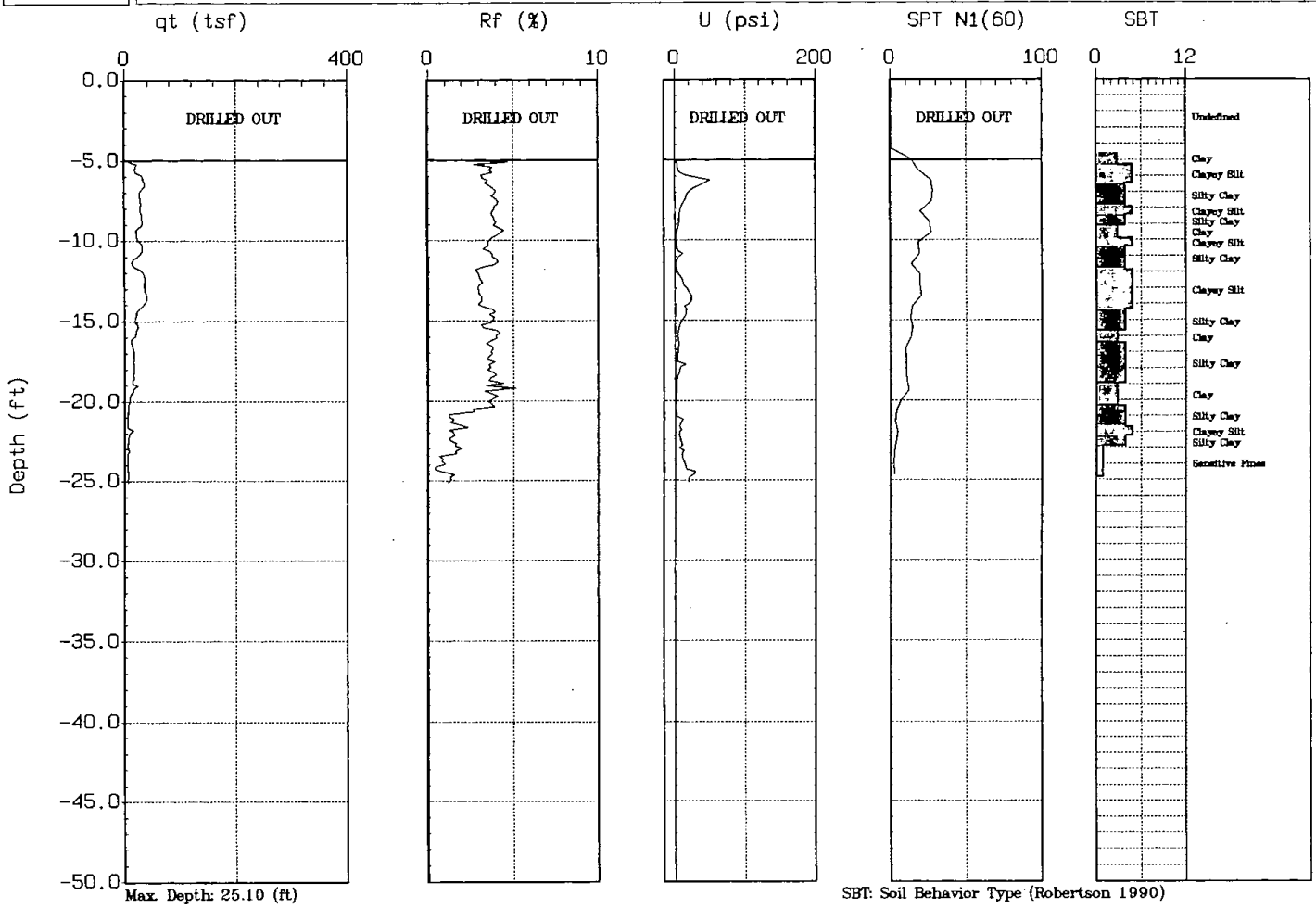
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-05

Engineer : MARK MURPHY
Date : 11:11:02 13:06



Max. Depth: 25.10 (ft)

Depth Inc.: 0.164 (ft)

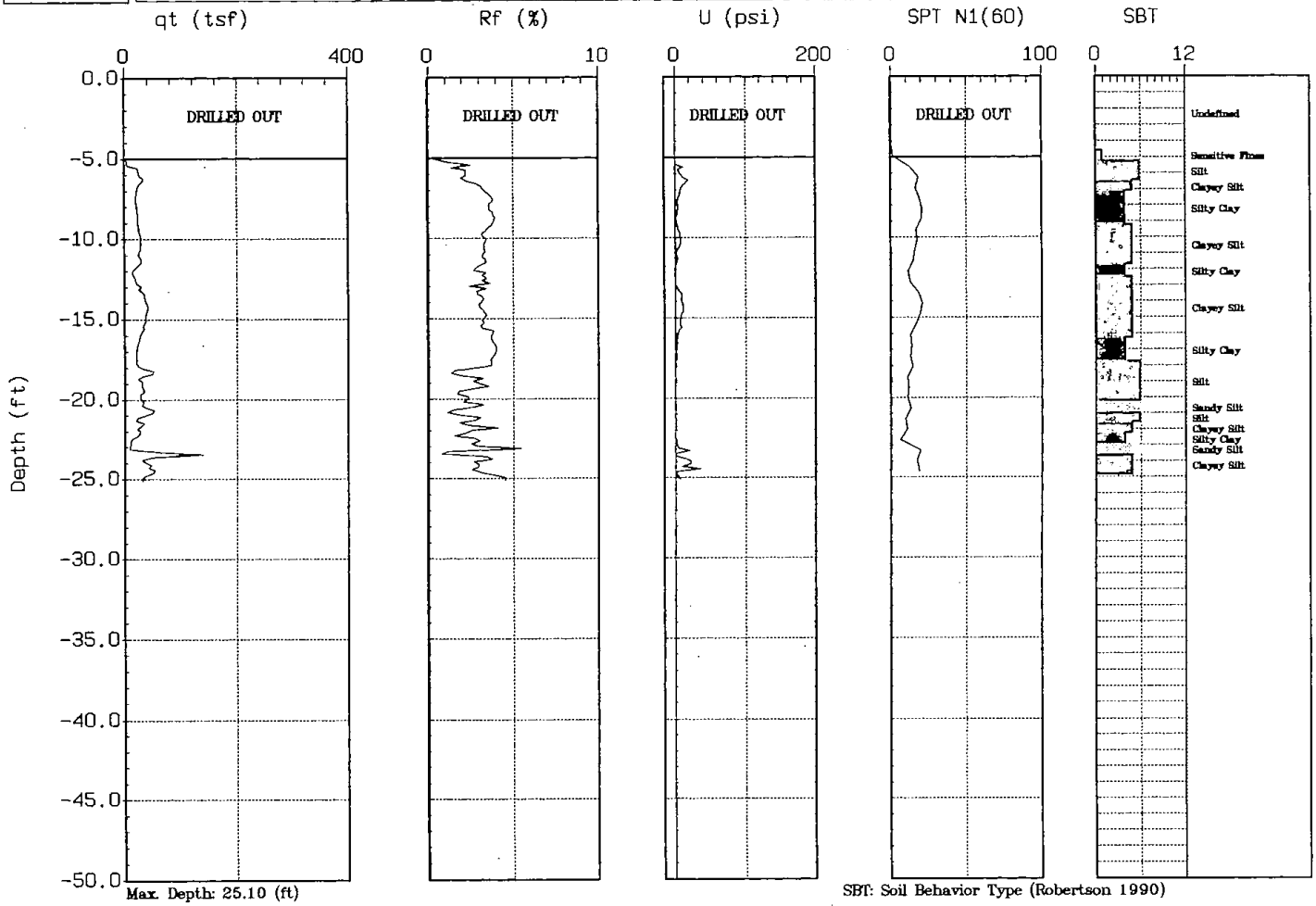
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT HIGH SCHOOL
Location : CPT-06

Engineer : MARK MURPHY
Date : 11:11:02 13:29



Max. Depth: 25.10 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

3.2 INTERPRETED OUTPUT

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4503
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-01
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 09:19
CPT File: 294C01.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	16.1	0.50	3.10	24.2	5	114.6	0.33	0.33	0.00	1.73	7.7	13.3	1.26	0.13
6.40	17.2	0.60	3.49	19.2	4	114.6	0.39	0.39	0.00	1.60	11.0	17.6	1.34	0.20
7.30	13.7	0.54	3.90	15.2	3	111.4	0.44	0.44	0.00	1.51	13.2	19.8	1.06	0.18
8.20	19.1	0.84	4.38	44.8	3	111.4	0.49	0.49	0.00	1.43	18.3	26.0	1.49	0.30
9.19	21.7	1.03	4.74	33.3	3	111.4	0.55	0.55	0.00	1.35	20.8	28.2	1.70	0.36
10.17	23.3	1.08	4.64	25.8	3	111.4	0.60	0.60	0.00	1.29	22.3	28.8	1.82	0.38
11.15	21.0	0.89	4.22	15.1	3	111.4	0.66	0.66	0.00	1.24	20.1	24.9	1.63	0.27
12.14	19.9	0.76	3.79	13.4	4	114.6	0.71	0.71	0.00	1.19	12.7	15.1	1.54	0.22
13.21	27.2	0.94	3.46	21.8	5	114.6	0.77	0.77	0.00	1.14	13.0	14.8	2.11	0.40
14.27	26.4	0.93	3.51	27.1	5	114.6	0.83	0.83	0.00	1.10	12.6	13.9	2.05	0.34
15.26	20.0	0.74	3.71	14.2	4	114.6	0.89	0.89	0.00	1.06	12.8	13.5	1.53	0.18
16.24	18.7	0.66	3.55	11.0	4	114.6	0.95	0.94	0.01	1.03	11.9	12.3	1.42	0.16
17.22	16.2	0.62	3.82	8.0	4	114.6	1.00	0.96	0.04	1.02	10.3	10.5	1.22	0.00
18.21	15.3	0.51	3.32	4.9	4	114.6	1.06	0.99	0.07	1.01	9.8	9.8	1.14	0.12
19.19	10.2	0.31	3.00	6.4	4	114.6	1.12	1.02	0.10	0.99	6.5	6.5	0.73	0.00
20.18	14.4	0.39	2.69	16.0	5	114.6	1.17	1.04	0.13	0.98	6.9	6.8	1.06	0.11
21.16	10.1	0.24	2.35	14.7	5	114.6	1.23	1.07	0.16	0.97	4.8	4.7	0.71	0.09
22.15	11.1	0.27	2.40	21.0	5	114.6	1.28	1.09	0.19	0.96	5.3	5.1	0.79	0.09
23.13	8.9	0.16	1.76	22.5	5	114.6	1.34	1.12	0.22	0.95	4.3	4.0	0.61	0.09
24.11	11.2	0.20	1.79	32.2	5	114.6	1.40	1.14	0.25	0.94	5.4	5.0	0.79	0.09
25.10	13.1	0.19	1.43	29.0	6	114.6	1.45	1.17	0.28	0.92	5.0	4.6	0.93	0.10
26.08	16.0	0.23	1.45	85.3	6	114.6	1.51	1.20	0.31	0.91	6.1	5.6	1.16	0.11
27.07	28.5	0.71	2.48	124.3	6	114.6	1.57	1.22	0.35	0.91	10.9	9.9	2.16	0.27
28.05	29.4	0.91	3.11	92.5	5	114.6	1.62	1.25	0.38	0.90	14.1	12.6	2.22	0.28
29.04	24.5	0.67	2.73	69.5	5	114.6	1.68	1.27	0.41	0.89	11.7	10.4	1.82	0.19
30.02	21.6	0.72	3.32	63.4	5	114.6	1.74	1.30	0.44	0.88	10.4	9.1	1.59	0.15
31.00	30.2	0.93	3.08	85.5	5	114.6	1.79	1.32	0.47	0.87	14.5	12.6	2.27	0.28
31.99	40.3	1.29	3.21	79.9	5	114.6	1.85	1.35	0.50	0.86	19.3	16.6	3.07	0.00
32.97	31.7	0.68	2.16	117.5	6	114.6	1.90	1.37	0.53	0.85	12.1	10.3	2.38	0.29
33.96	41.2	1.02	2.48	161.2	6	114.6	1.96	1.40	0.56	0.85	15.8	13.3	3.14	0.00
34.94	113.5	2.74	2.42	626.2	7	117.8	2.02	1.43	0.59	0.84	36.2	30.3	UnDef	0.00
35.92	102.2	2.75	2.69	401.3	6	114.6	2.08	1.45	0.62	0.83	39.2	32.5	8.01	0.00

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4503
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-01
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 09:19
CPT File: 294C01.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	5.0E-06	0.05	47.3	3.17	6	27.3	55.5	82.7	30.1	UnDef	UnDef	6.0	UnDef	9.6	23.0
6.40	5.0E-07	0.04	43.0	3.57	6	26.9	80.6	107.5	33.1	UnDef	UnDef	6.0	UnDef	15.5	33.1
7.30	5.0E-08	0.04	30.1	4.03	6	20.2	80.9	101.2	40.5	UnDef	UnDef	6.0	UnDef	19.8	39.6
8.20	5.0E-08	0.08	37.8	4.50	6	26.6	106.5	133.1	38.5	UnDef	UnDef	6.0	UnDef	26.0	52.1
9.19	5.0E-08	0.05	38.8	4.86	6	28.8	115.2	144.0	39.3	UnDef	UnDef	6.0	UnDef	28.2	56.4
10.17	5.0E-08	0.04	37.8	4.76	6	29.4	117.6	147.0	39.4	UnDef	UnDef	6.0	UnDef	28.8	57.5
11.15	5.0E-08	0.02	31.1	4.35	6	25.4	101.7	127.1	41.2	UnDef	UnDef	6.0	UnDef	24.9	49.7
12.14	5.0E-07	0.02	27.0	3.93	6	23.1	92.4	115.5	42.1	UnDef	UnDef	6.0	UnDef	15.1	30.1
13.21	5.0E-06	0.03	34.2	3.56	6	30.3	121.1	151.4	36.5	UnDef	UnDef	6.0	UnDef	14.8	29.6
14.27	5.0E-06	0.03	30.7	3.63	6	28.3	113.2	141.5	38.6	UnDef	UnDef	6.0	UnDef	13.9	27.7
15.26	5.0E-07	0.02	21.5	3.88	6	20.8	83.1	103.8	46.0	UnDef	UnDef	6.0	UnDef	13.5	27.1
16.24	5.0E-07	0.02	18.9	3.74	4	18.9	75.5	94.4	47.9	UnDef	UnDef	6.0	UnDef	12.3	24.6
17.22	5.0E-07	0.01	15.8	4.07	1	16.1	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
18.21	5.0E-07	0.01	14.4	3.57	4	15.0	60.1	75.2	52.9	UnDef	UnDef	6.0	UnDef	9.8	19.6
19.19	5.0E-07	0.01	8.9	3.37	1	9.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
20.18	5.0E-06	0.03	12.7	2.93	4	13.8	55.3	69.1	52.3	UnDef	UnDef	6.0	UnDef	6.8	13.5
21.16	5.0E-06	0.03	8.3	2.67	4	9.6	38.3	47.9	60.9	UnDef	UnDef	3.0	UnDef	4.7	9.4
22.15	5.0E-06	0.05	9.0	2.72	4	10.4	41.6	52.1	59.2	UnDef	UnDef	3.0	UnDef	5.1	10.2
23.13	5.0E-06	0.06	6.8	2.07	4	8.3	33.0	41.3	62.1	UnDef	UnDef	3.0	UnDef	4.0	8.1
24.11	5.0E-06	0.08	8.6	2.04	4	10.3	41.0	51.3	56.0	UnDef	UnDef	3.0	UnDef	5.0	10.0
25.10	5.0E-05	0.05	9.9	1.61	6	11.8	47.3	59.1	49.3	30	30.0	3.0	0.01	4.6	9.3
26.08	5.0E-05	0.16	12.1	1.60	6	14.3	57.4	71.7	44.8	30	30.0	3.0	0.00	5.6	11.2
27.07	5.0E-05	0.13	22.1	2.62	6	25.2	101.0	126.2	39.6	34	30.0	6.0	-0.11	9.9	19.8
28.05	5.0E-06	0.09	22.3	3.29	6	25.8	103.0	128.8	42.8	UnDef	UnDef	6.0	UnDef	12.6	25.2
29.04	5.0E-06	0.08	17.9	2.93	6	21.2	84.9	106.1	45.2	UnDef	UnDef	6.0	UnDef	10.4	20.8
30.02	5.0E-06	0.08	15.3	3.61	4	18.6	74.4	92.9	51.6	UnDef	UnDef	6.0	UnDef	9.1	18.2
31.00	5.0E-06	0.08	21.4	3.27	6	25.7	102.7	128.3	43.4	UnDef	UnDef	6.0	UnDef	12.6	25.1
31.99	5.0E-06	0.05	28.5	3.37	6	33.9	135.7	169.6	38.7	UnDef	UnDef	6.0	UnDef	16.6	33.2
32.97	5.0E-05	0.11	21.6	2.30	6	26.4	105.7	132.1	38.2	34	30.0	6.0	-0.10	10.3	20.7
33.96	5.0E-05	0.11	28.0	2.60	6	34.1	136.3	170.4	35.4	36	36.4	6.0	-0.14	13.3	26.7
34.94	5.0E-04	0.17	78.1	2.46	7	93.0	68.4	161.3	20.9	42	65.2	1.0	-0.25	10.9	41.3
35.92	5.0E-05	0.12	68.9	2.75	7	83.0	81.3	164.3	23.5	40	61.9	10.0	-0.26	14.6	47.0

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4564
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-02
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 09:58
CPT File: 294C02.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	10.4	0.17	1.67	20.2	5	114.6	0.33	0.33	0.00	1.73	5.0	8.6	0.80	0.09
6.40	8.0	0.20	2.48	-0.2	4	114.6	0.39	0.39	0.00	1.60	5.1	8.1	0.61	0.10
7.30	15.9	0.41	2.58	14.3	5	114.6	0.44	0.44	0.00	1.50	7.6	11.4	1.23	0.14
8.20	17.1	0.54	3.16	28.6	5	114.6	0.49	0.49	0.00	1.42	8.2	11.7	1.33	0.24
9.19	20.9	0.59	2.84	23.4	5	114.6	0.55	0.55	0.00	1.35	10.0	13.5	1.63	0.19
10.17	19.6	0.76	3.87	13.5	4	114.6	0.61	0.61	0.00	1.28	12.5	16.1	1.52	0.25
11.15	21.2	0.84	3.97	4.9	4	114.6	0.66	0.66	0.00	1.23	13.5	16.6	1.64	0.27
12.14	24.1	0.86	3.57	7.3	5	114.6	0.72	0.72	0.00	1.18	11.6	13.6	1.87	0.33
13.21	26.7	0.80	3.00	23.3	5	114.6	0.78	0.78	0.00	1.13	12.8	14.5	2.07	0.38
14.27	31.6	0.92	2.90	32.4	5	114.6	0.84	0.84	0.00	1.09	15.1	16.5	2.46	0.30
15.26	32.1	0.95	2.96	25.7	5	114.6	0.90	0.90	0.00	1.06	15.4	16.2	2.50	0.38
16.24	23.9	0.77	3.20	6.8	5	114.6	0.95	0.95	0.01	1.03	11.5	11.8	1.84	0.24
17.22	20.6	0.75	3.61	2.7	4	114.6	1.01	0.97	0.04	1.01	13.2	13.4	1.57	0.18
18.21	16.3	0.60	3.70	2.4	4	114.6	1.07	1.00	0.07	1.00	10.4	10.4	1.22	0.00
19.19	16.6	0.58	3.50	-0.6	4	114.6	1.12	1.02	0.10	0.99	10.6	10.5	1.24	0.13
20.18	16.4	0.52	3.15	-0.4	5	114.6	1.18	1.05	0.13	0.98	7.9	7.7	1.22	0.13
21.16	17.9	0.38	2.13	2.2	5	114.6	1.24	1.07	0.16	0.96	8.6	8.3	1.33	0.14
22.15	22.4	0.45	1.99	-0.6	6	114.6	1.29	1.10	0.19	0.95	8.6	8.2	1.69	0.19
23.13	10.2	0.26	2.58	3.4	5	114.6	1.35	1.13	0.22	0.94	4.9	4.6	0.71	0.09
24.11	9.0	0.28	3.10	17.2	4	114.6	1.40	1.15	0.25	0.93	5.8	5.4	0.61	0.00
25.10	6.8	0.14	1.99	25.9	4	114.6	1.46	1.18	0.28	0.92	4.3	4.0	0.43	0.08
26.08	10.2	0.15	1.49	36.4	5	114.6	1.52	1.20	0.31	0.91	4.9	4.4	0.69	0.09
27.07	19.9	0.45	2.27	100.8	6	114.6	1.57	1.23	0.35	0.90	7.6	6.9	1.46	0.14
28.05	24.0	0.84	3.48	63.2	5	114.6	1.63	1.25	0.38	0.89	11.5	10.3	1.79	0.19
29.04	33.9	0.92	2.72	90.0	6	114.6	1.69	1.28	0.41	0.88	13.0	11.5	2.57	0.37
30.02	27.1	0.65	2.41	73.0	6	114.6	1.74	1.31	0.44	0.88	10.4	9.1	2.03	0.22
31.00	63.5	1.79	2.83	69.0	6	114.6	1.80	1.33	0.47	0.87	24.3	21.1	4.93	0.41
31.99	119.3	2.01	1.69	98.5	7	117.8	1.86	1.36	0.50	0.86	38.1	32.7	UnDef	0.35
32.97	76.3	1.89	2.48	-9.8	6	114.6	1.91	1.38	0.53	0.85	29.2	24.9	5.95	0.34
33.96	88.6	2.28	2.57	115.7	6	114.6	1.97	1.41	0.56	0.84	33.9	28.6	6.93	0.40
34.94	51.5	1.33	2.58	64.9	6	114.6	2.03	1.44	0.59	0.83	19.7	16.5	3.96	0.45
35.92	142.3	3.09	2.17	49.0	7	117.8	2.08	1.46	0.62	0.83	45.4	37.6	UnDef	0.00

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4564
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-02
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 09:58
CPT File: 294C02.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	5.0E-06	0.06	30.1	1.73	7	17.6	32.3	49.9	29.3	UnDef	UnDef	6.0	UnDef	5.9	14.5
6.40	5.0E-07	0.00	19.4	2.61	6	12.5	49.9	62.3	41.9	UnDef	UnDef	6.0	UnDef	8.1	16.3
7.30	5.0E-06	0.03	34.9	2.65	6	23.4	61.7	85.1	32.2	UnDef	UnDef	6.0	UnDef	9.5	20.9
8.20	5.0E-06	0.05	33.7	3.26	6	23.8	95.3	119.2	35.5	UnDef	UnDef	6.0	UnDef	11.7	23.3
9.19	5.0E-06	0.04	36.9	2.92	6	27.5	76.9	104.4	32.6	UnDef	UnDef	6.0	UnDef	11.5	25.0
10.17	5.0E-07	0.02	31.4	3.99	6	24.7	98.7	123.4	39.7	UnDef	UnDef	6.0	UnDef	16.1	32.2
11.15	5.0E-07	0.01	31.0	4.10	6	25.5	101.9	127.4	40.3	UnDef	UnDef	6.0	UnDef	16.6	33.3
12.14	5.0E-06	0.01	32.6	3.68	6	27.9	111.4	139.3	37.8	UnDef	UnDef	6.0	UnDef	13.6	27.3
13.21	5.0E-06	0.03	33.2	3.09	6	29.6	118.3	147.9	35.0	UnDef	UnDef	6.0	UnDef	14.5	29.0
14.27	5.0E-06	0.03	36.6	2.98	6	33.8	100.1	133.8	33.0	UnDef	UnDef	6.0	UnDef	14.5	31.0
15.26	5.0E-06	0.03	34.8	3.04	6	33.2	114.7	147.9	34.0	UnDef	UnDef	6.0	UnDef	15.3	31.6
16.24	5.0E-06	0.01	24.3	3.33	6	24.1	96.3	120.3	41.4	UnDef	UnDef	6.0	UnDef	11.8	23.6
17.22	5.0E-07	0.00	20.2	3.80	4	20.5	81.9	102.4	46.9	UnDef	UnDef	6.0	UnDef	13.4	26.7
18.21	5.0E-07	0.00	15.3	3.96	1	16.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-07	-0.01	15.1	3.76	4	16.1	64.2	80.3	52.6	UnDef	UnDef	6.0	UnDef	10.5	20.9
20.18	5.0E-06	-0.01	14.5	3.39	4	15.7	62.8	78.5	51.8	UnDef	UnDef	6.0	UnDef	7.7	15.4
21.16	5.0E-06	-0.01	15.5	2.29	6	16.9	67.6	84.5	44.4	UnDef	UnDef	6.0	UnDef	8.3	16.5
22.15	5.0E-05	-0.01	19.2	2.11	6	20.9	83.7	104.6	39.3	32	30.0	6.0	-0.09	8.2	16.4
23.13	5.0E-06	-0.01	7.9	2.97	4	9.4	37.8	47.2	64.0	UnDef	UnDef	3.0	UnDef	4.6	9.2
24.11	5.0E-07	0.04	6.6	3.67	1	8.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
25.10	5.0E-07	0.10	4.5	2.54	4	6.1	24.5	30.7	76.8	UnDef	UnDef	1.5	UnDef	4.0	8.0
26.08	5.0E-06	0.09	7.2	1.75	4	9.1	36.4	45.5	58.1	UnDef	UnDef	3.0	UnDef	4.4	8.9
27.07	5.0E-05	0.15	14.9	2.47	6	17.5	70.2	87.7	46.4	32	30.0	6.0	-0.06	6.9	13.7
28.05	5.0E-06	0.07	17.8	3.74	4	21.0	83.8	104.8	49.1	UnDef	UnDef	6.0	UnDef	10.3	20.5
29.04	5.0E-05	0.07	25.1	2.86	6	29.3	117.2	146.4	38.5	34	32.1	6.0	-0.15	11.5	22.9
30.02	5.0E-05	0.07	19.4	2.58	6	23.2	92.7	115.9	41.8	32	30.0	6.0	-0.10	9.1	18.2
31.00	5.0E-05	0.03	46.3	2.91	6	53.8	99.1	152.9	29.3	38	49.5	6.0	-0.23	14.4	35.4
31.99	5.0E-04	0.02	86.5	1.71	7	100.2	42.7	142.9	16.2	42	67.3	1.0	-0.23	7.5	40.2
32.97	5.0E-05	-0.01	53.8	2.55	7	63.5	78.0	141.5	25.6	40	54.3	10.0	-0.23	13.1	37.9
33.96	5.0E-05	0.04	61.4	2.63	7	73.0	78.3	151.3	24.4	40	58.3	10.0	-0.25	13.7	42.3
34.94	5.0E-05	0.03	34.5	2.69	6	42.1	116.8	158.9	32.5	38	42.5	6.0	-0.18	14.0	30.5
35.92	5.0E-04	0.01	95.9	2.20	7	115.2	58.5	173.7	17.6	42	71.3	1.0	-0.27	10.0	47.6

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4619
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-3
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 11:07
CPT File: 294C03.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	20.7	0.66	3.21	3.0	5	114.6	0.33	0.33	0.00	1.73	9.9	17.1	1.63	0.14
6.40	17.3	0.57	3.32	4.9	4	114.6	0.39	0.39	0.00	1.60	11.1	17.7	1.36	0.17
7.30	20.9	0.82	3.91	6.5	4	114.6	0.44	0.44	0.00	1.50	13.3	20.1	1.63	0.29
8.20	19.3	0.80	4.17	9.2	3	111.4	0.49	0.49	0.00	1.42	18.4	26.3	1.50	0.31
9.19	20.0	0.84	4.22	11.0	3	111.4	0.55	0.55	0.00	1.35	19.1	25.9	1.56	0.30
10.17	20.5	0.93	4.55	12.6	3	111.4	0.60	0.60	0.00	1.29	19.6	25.3	1.59	0.28
11.15	23.6	0.98	4.15	11.9	4	114.6	0.66	0.66	0.00	1.23	15.0	18.6	1.83	0.35
12.14	24.6	0.88	3.60	11.8	5	114.6	0.71	0.71	0.00	1.18	11.8	13.9	1.91	0.35
13.21	21.2	0.74	3.51	13.7	4	114.6	0.78	0.78	0.00	1.14	13.5	15.4	1.63	0.23
14.27	29.9	0.98	3.28	16.8	5	114.6	0.84	0.84	0.00	1.09	14.3	15.6	2.32	0.46
15.26	28.4	1.01	3.57	23.1	5	114.6	0.89	0.89	0.00	1.06	13.6	14.4	2.20	0.38
16.24	14.2	0.49	3.41	21.5	4	114.6	0.95	0.94	0.01	1.03	9.1	9.4	1.06	0.11
17.22	13.3	0.50	3.78	18.2	3	111.4	1.00	0.97	0.04	1.02	12.7	12.9	0.98	0.00
18.21	14.1	0.50	3.56	16.7	4	114.6	1.06	0.99	0.07	1.00	9.0	9.0	1.04	0.00
19.19	11.6	0.35	2.98	15.7	4	114.6	1.12	1.02	0.10	0.99	7.4	7.3	0.84	0.10
20.18	14.3	0.42	2.95	14.6	5	114.6	1.17	1.04	0.13	0.98	6.8	6.7	1.05	0.11
21.16	25.7	0.55	2.16	14.3	6	114.6	1.23	1.07	0.16	0.97	9.8	9.5	1.96	0.25
22.15	14.3	0.32	2.25	14.9	5	114.6	1.29	1.09	0.19	0.96	6.9	6.6	1.04	0.11
23.13	5.2	0.08	1.50	18.6	4	114.6	1.34	1.12	0.22	0.95	3.3	3.2	0.31	0.00
24.11	5.8	0.08	1.32	26.4	5	114.6	1.40	1.15	0.25	0.93	2.8	2.6	0.35	0.00
25.10	14.8	0.28	1.92	34.4	5	114.6	1.46	1.17	0.28	0.92	7.1	6.5	1.07	0.11
26.08	15.4	0.29	1.89	28.5	5	114.6	1.51	1.20	0.31	0.91	7.4	6.7	1.11	0.11
27.07	6.4	0.12	1.82	29.2	4	114.6	1.57	1.22	0.35	0.90	4.1	3.7	0.39	0.00
28.05	8.9	0.21	2.32	36.7	5	114.6	1.62	1.25	0.38	0.90	4.2	3.8	0.58	0.09
29.04	16.0	0.46	2.90	51.1	5	114.6	1.68	1.27	0.41	0.89	7.7	6.8	1.15	0.11
30.02	25.7	0.64	2.48	57.8	6	114.6	1.74	1.30	0.44	0.88	9.9	8.6	1.92	0.21
31.00	15.7	0.61	3.90	31.5	3	111.4	1.79	1.32	0.47	0.87	15.1	13.1	1.11	0.00
31.99	39.4	1.10	2.79	37.3	6	114.6	1.85	1.35	0.50	0.86	15.1	13.0	3.01	0.00
32.97	29.5	0.71	2.41	80.6	6	114.6	1.90	1.37	0.53	0.85	11.3	9.6	2.21	0.25
33.96	32.7	0.65	2.00	142.8	6	114.6	1.96	1.40	0.56	0.85	12.5	10.6	2.46	0.31
34.94	48.2	1.03	2.13	229.9	6	114.6	2.02	1.43	0.59	0.84	18.5	15.5	3.69	0.29
35.92	49.4	0.99	2.01	366.7	6	114.6	2.07	1.45	0.62	0.83	18.9	15.7	3.78	0.26
36.91	50.9	1.01	1.99	421.5	7	117.8	2.13	1.48	0.65	0.82	16.3	13.4	UnDef	0.25
37.89	69.2	1.56	2.26	523.7	7	117.8	2.19	1.51	0.68	0.82	22.1	18.0	UnDef	0.31
38.88	162.7	2.67	1.64	1178.4	8	120.9	2.25	1.53	0.71	0.81	38.9	31.5	UnDef	0.00
39.86	171.3	2.55	1.49	1481.0	8	120.9	2.31	1.56	0.75	0.80	41.0	32.8	UnDef	0.00
40.85	176.3	2.48	1.41	1481.0	8	120.9	2.37	1.59	0.78	0.79	42.2	33.5	UnDef	0.00

Gregg In Situ, Inc.
Run No: 02-1114-2212-4619
CPT File: 294C03.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
41.83	177.3	2.36	1.33	1481.0	8	120.9	2.43	1.62	0.81	0.79	42.5	33.4	UnDef	0.00
42.81	163.0	2.20	1.35	1481.0	8	120.9	2.49	1.65	0.84	0.78	39.0	30.4	UnDef	0.45

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4619
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-3
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 11:07
CPT File: 294C03.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	5.0E-06	0.00	60.9	3.26	6	35.0	50.6	85.6	27.1	UnDef	UnDef	10.0	UnDef	10.0	27.2
6.40	5.0E-07	0.01	43.4	3.39	6	27.2	72.3	99.5	32.2	UnDef	UnDef	6.0	UnDef	14.8	32.5
7.30	5.0E-07	0.01	46.3	3.99	6	30.7	99.8	130.6	33.6	UnDef	UnDef	6.0	UnDef	18.4	38.4
8.20	5.0E-08	0.02	38.1	4.28	6	26.9	107.4	134.3	37.6	UnDef	UnDef	6.0	UnDef	26.3	52.6
9.19	5.0E-08	0.02	35.5	4.34	6	26.4	105.8	132.2	38.9	UnDef	UnDef	6.0	UnDef	25.9	51.8
10.17	5.0E-08	0.02	33.0	4.69	6	25.8	103.3	129.1	41.4	UnDef	UnDef	6.0	UnDef	25.3	50.6
11.15	5.0E-07	0.02	34.8	4.27	6	28.4	113.8	142.2	39.0	UnDef	UnDef	6.0	UnDef	18.6	37.1
12.14	5.0E-06	0.02	33.4	3.71	6	28.4	113.8	142.2	37.5	UnDef	UnDef	6.0	UnDef	13.9	27.8
13.21	5.0E-07	0.02	26.3	3.64	6	23.5	94.2	117.7	41.3	UnDef	UnDef	6.0	UnDef	15.4	30.7
14.27	5.0E-06	0.02	34.7	3.37	6	32.0	127.9	159.8	35.5	UnDef	UnDef	6.0	UnDef	15.6	31.3
15.26	5.0E-06	0.03	30.8	3.69	6	29.4	117.6	147.0	38.8	UnDef	UnDef	6.0	UnDef	14.4	28.8
16.24	5.0E-07	0.05	14.1	3.66	4	14.4	57.5	71.8	53.6	UnDef	UnDef	6.0	UnDef	9.4	18.7
17.22	5.0E-08	0.04	12.7	4.09	1	13.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
18.21	5.0E-07	0.03	13.1	3.85	1	13.8	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-07	0.04	10.3	3.30	4	11.3	45.0	56.3	59.1	UnDef	UnDef	3.0	UnDef	7.3	14.7
20.18	5.0E-06	0.02	12.6	3.21	4	13.7	54.8	68.5	54.1	UnDef	UnDef	6.0	UnDef	6.7	13.4
21.16	5.0E-05	0.01	22.9	2.27	6	24.3	97.3	121.6	37.0	34	30.0	6.0	-0.12	9.5	19.0
22.15	5.0E-06	0.02	11.9	2.47	6	13.4	53.6	67.0	51.2	UnDef	UnDef	3.0	UnDef	6.6	13.1
23.13	5.0E-07	0.09	3.5	2.01	4	4.8	19.4	24.2	81.2	UnDef	UnDef	1.5	UnDef	3.2	6.3
24.11	5.0E-06	0.13	3.9	1.74	4	5.3	21.3	26.6	75.5	UnDef	UnDef	1.5	UnDef	2.6	5.2
25.10	5.0E-06	0.06	11.4	2.13	6	13.4	53.5	66.8	50.0	UnDef	UnDef	3.0	UnDef	6.5	13.1
26.08	5.0E-06	0.04	11.6	2.10	6	13.7	54.9	68.7	49.5	UnDef	UnDef	3.0	UnDef	6.7	13.4
27.07	5.0E-07	0.12	4.0	2.40	4	5.7	22.8	28.5	79.9	UnDef	UnDef	1.5	UnDef	3.7	7.4
28.05	5.0E-06	0.11	5.8	2.84	4	7.8	31.1	38.8	71.6	UnDef	UnDef	1.5	UnDef	3.8	7.6
29.04	5.0E-06	0.08	11.3	3.24	4	13.9	55.5	69.4	56.8	UnDef	UnDef	3.0	UnDef	6.8	13.6
30.02	5.0E-05	0.06	18.5	2.66	6	22.1	88.4	110.5	43.2	32	30.0	6.0	-0.10	8.6	17.3
31.00	5.0E-08	0.04	10.5	4.40	1	13.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
31.99	5.0E-05	0.02	27.8	2.92	6	33.2	132.8	166.0	37.1	36	35.7	6.0	-0.17	13.0	26.0
32.97	5.0E-05	0.07	20.1	2.58	6	24.6	98.5	123.2	41.1	34	30.0	6.0	-0.11	9.6	19.3
33.96	5.0E-05	0.13	21.9	2.13	6	27.0	108.1	135.1	37.0	34	30.0	6.0	-0.09	10.6	21.2
34.94	5.0E-05	0.14	32.4	2.22	6	39.5	90.8	130.3	31.1	36	40.7	6.0	-0.14	11.9	27.4
35.92	5.0E-05	0.23	32.6	2.10	7	40.1	83.8	123.8	30.3	36	41.1	6.0	-0.12	11.5	27.2
36.91	5.0E-04	0.26	33.0	2.07	7	41.0	82.0	123.0	30.0	36	41.7	1.0	-0.12	9.6	22.9
37.89	5.0E-04	0.23	44.5	2.33	7	55.2	79.4	134.6	27.1	38	50.2	1.0	-0.17	10.5	28.5
38.88	5.0E-03	0.22	104.6	1.66	7	128.6	41.8	170.3	14.2	42	74.5	1.0	-0.22	5.7	37.2
39.86	5.0E-03	0.27	108.2	1.51	9	134.1	36.8	170.9	13.1	42	75.7	1.0	-0.21	5.1	37.9
40.85	5.0E-03	0.26	109.4	1.43	9	136.8	34.4	171.2	12.5	42	76.3	1.0	-0.20	4.8	38.3

Gregg In Situ, Inc.
Run No: 02-1114-2212-4619
CPT File: 294C03.COR

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
41.83	5.0E-03	0.26	108.0	1.35	9	136.3	32.5	168.8	12.2	42	76.2	1.0	-0.20	4.6	37.9
42.81	5.0E-03	0.28	97.4	1.37	9	124.2	34.9	159.1	13.2	42	73.5	1.0	-0.18	4.8	35.2

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4673
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-04
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 12:38
CPT File: 294C04.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60 (blows/ft)	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	20.7	0.49	2.36	19.1	6	114.6	0.33	0.33	0.00	1.73	7.9	13.8	1.63	0.11
6.40	28.6	0.55	1.92	17.9	6	114.6	0.39	0.39	0.00	1.60	11.0	17.5	2.26	0.12
7.30	23.4	0.64	2.73	22.6	5	114.6	0.44	0.44	0.00	1.50	11.2	16.8	1.84	0.14
8.20	26.6	0.89	3.33	33.5	5	114.6	0.49	0.49	0.00	1.42	12.7	18.1	2.09	0.19
9.19	21.5	0.76	3.51	44.3	5	114.6	0.55	0.55	0.00	1.35	10.3	13.9	1.68	0.35
10.17	25.7	0.98	3.82	50.7	4	114.6	0.61	0.61	0.00	1.28	16.4	21.1	2.01	0.00
11.15	28.5	1.03	3.59	48.3	5	114.6	0.66	0.66	0.00	1.23	13.7	16.8	2.23	0.39
12.14	18.9	0.66	3.47	37.7	4	114.6	0.72	0.72	0.00	1.18	12.1	14.2	1.45	0.20
13.21	24.5	0.71	2.88	35.1	5	114.6	0.78	0.78	0.00	1.13	11.7	13.3	1.90	0.31
14.27	31.4	0.89	2.82	38.2	5	114.6	0.84	0.84	0.00	1.09	15.0	16.4	2.44	0.28
15.26	34.9	0.96	2.74	41.7	6	114.6	0.90	0.90	0.00	1.06	13.4	14.1	2.72	0.26
16.24	27.3	0.78	2.87	71.4	5	114.6	0.95	0.95	0.01	1.03	13.1	13.4	2.11	0.32
17.22	18.5	0.57	3.06	47.1	5	114.6	1.01	0.97	0.04	1.01	8.9	9.0	1.40	0.15
18.21	16.4	0.49	3.02	33.8	5	114.6	1.07	1.00	0.07	1.00	7.8	7.8	1.22	0.13
19.19	17.5	0.50	2.85	30.5	5	114.6	1.12	1.02	0.10	0.99	8.4	8.3	1.31	0.14
20.18	18.8	0.47	2.50	26.8	5	114.6	1.18	1.05	0.13	0.98	9.0	8.8	1.41	0.15
21.16	12.0	0.32	2.66	22.2	5	114.6	1.24	1.07	0.16	0.96	5.7	5.5	0.86	0.10
22.15	18.7	0.25	1.33	20.3	6	114.6	1.29	1.10	0.19	0.95	7.2	6.8	1.39	0.14
23.13	24.4	0.40	1.62	11.7	6	114.6	1.35	1.13	0.22	0.94	9.3	8.8	1.84	0.21
24.11	9.0	0.05	0.50	34.6	6	114.6	1.40	1.15	0.25	0.93	3.5	3.2	0.61	0.09
25.10	11.7	0.10	0.86	45.9	6	114.6	1.46	1.18	0.28	0.92	4.5	4.1	0.82	0.09
26.08	20.6	0.21	1.03	42.7	6	114.6	1.52	1.20	0.31	0.91	7.9	7.2	1.52	0.15
27.07	12.0	0.21	1.79	41.4	5	114.6	1.57	1.23	0.35	0.90	5.7	5.2	0.83	0.09
28.05	16.4	0.45	2.73	39.8	5	114.6	1.63	1.25	0.38	0.89	7.9	7.0	1.18	0.11
29.04	15.9	0.45	2.81	38.7	5	114.6	1.69	1.28	0.41	0.88	7.6	6.7	1.14	0.11
30.02	19.8	0.50	2.51	39.0	5	114.6	1.74	1.31	0.44	0.88	9.5	8.3	1.45	0.14
31.00	32.1	0.67	2.10	39.4	6	114.6	1.80	1.33	0.47	0.87	12.3	10.7	2.43	0.32
31.99	37.0	0.62	1.69	52.1	6	114.6	1.86	1.36	0.50	0.86	14.2	12.2	2.81	0.21
32.97	38.4	0.61	1.60	228.8	7	117.8	1.91	1.38	0.53	0.85	12.2	10.4	UnDef	0.19
33.96	53.6	0.92	1.72	311.1	7	117.8	1.97	1.41	0.56	0.84	17.1	14.4	UnDef	0.19
34.94	114.5	1.58	1.38	841.4	8	120.9	2.03	1.44	0.59	0.83	27.4	22.9	UnDef	0.28
35.92	137.1	1.93	1.41	1307.8	8	120.9	2.09	1.47	0.62	0.83	32.8	27.1	UnDef	0.37
36.91	152.2	2.14	1.41	1480.8	8	120.9	2.15	1.50	0.65	0.82	36.4	29.8	UnDef	0.44
37.89	151.1	2.18	1.44	1480.8	8	120.9	2.21	1.52	0.68	0.81	36.2	29.3	UnDef	0.43

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4673
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-04
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 12:38
CPT File: 294C04.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	5.0E-05	0.03	61.2	2.40	7	35.1	33.8	68.9	23.4	40	37.3	10.0	-0.23	6.1	19.8
6.40	5.0E-05	0.02	72.3	1.94	7	44.8	27.4	72.2	19.2	40	44.3	10.0	-0.22	5.5	23.0
7.30	5.0E-06	0.03	51.9	2.78	7	34.4	49.8	84.3	27.2	UnDef	UnDef	10.0	UnDef	9.9	26.7
8.20	5.0E-06	0.04	52.9	3.40	6	37.0	70.1	107.1	29.5	UnDef	UnDef	10.0	UnDef	12.5	30.7
9.19	5.0E-06	0.07	38.2	3.61	6	28.4	113.7	142.2	35.0	UnDef	UnDef	6.0	UnDef	13.9	27.8
10.17	5.0E-07	0.06	41.4	3.91	6	32.3	129.4	161.7	35.0	UnDef	UnDef	6.0	UnDef	21.1	42.2
11.15	5.0E-06	0.05	42.1	3.68	6	34.3	114.8	149.1	33.8	UnDef	UnDef	6.0	UnDef	15.6	32.4
12.14	5.0E-07	0.06	25.3	3.61	6	21.8	87.3	109.1	41.9	UnDef	UnDef	6.0	UnDef	14.2	28.5
13.21	5.0E-06	0.05	30.5	2.97	6	27.2	108.7	135.9	35.9	UnDef	UnDef	6.0	UnDef	13.3	26.6
14.27	5.0E-06	0.04	36.3	2.90	6	33.5	95.9	129.4	32.8	UnDef	UnDef	6.0	UnDef	14.2	30.5
15.26	5.0E-05	0.04	37.9	2.81	6	36.1	89.7	125.7	31.7	38	38.0	6.0	-0.20	11.4	25.5
16.24	5.0E-06	0.08	27.8	2.98	6	27.4	109.8	137.2	37.4	UnDef	UnDef	6.0	UnDef	13.4	26.9
17.22	5.0E-06	0.08	18.0	3.23	6	18.4	73.5	91.9	46.6	UnDef	UnDef	6.0	UnDef	9.0	18.0
18.21	5.0E-06	0.06	15.3	3.23	4	16.0	64.1	80.1	49.9	UnDef	UnDef	6.0	UnDef	7.8	15.7
19.19	5.0E-06	0.05	16.0	3.05	6	16.9	67.7	84.7	48.0	UnDef	UnDef	6.0	UnDef	8.3	16.6
20.18	5.0E-06	0.04	16.8	2.67	6	17.9	71.7	89.7	45.1	UnDef	UnDef	6.0	UnDef	8.8	17.6
21.16	5.0E-06	0.05	10.0	2.96	4	11.3	45.1	56.4	58.1	UnDef	UnDef	3.0	UnDef	5.5	11.0
22.15	5.0E-05	0.03	15.8	1.43	6	17.5	69.9	87.3	38.1	32	30.0	6.0	-0.04	6.8	13.7
23.13	5.0E-05	0.01	20.5	1.72	6	22.5	90.0	112.5	35.5	34	30.0	6.0	-0.08	8.8	17.6
24.11	5.0E-05	0.11	6.6	0.59	6	8.2	32.9	41.1	47.7	30	30.0	3.0	0.11	3.2	6.4
25.10	5.0E-05	0.11	8.7	0.98	6	10.6	42.2	52.8	46.3	30	30.0	3.0	0.06	4.1	8.3
26.08	5.0E-05	0.05	15.8	1.11	6	18.4	73.4	91.8	35.3	32	30.0	6.0	-0.02	7.2	14.4
27.07	5.0E-06	0.09	8.5	2.06	4	10.6	42.3	52.8	56.4	UnDef	UnDef	3.0	UnDef	5.2	10.3
28.05	5.0E-06	0.06	11.8	3.03	4	14.4	57.5	71.8	54.6	UnDef	UnDef	3.0	UnDef	7.0	14.1
29.04	5.0E-06	0.06	11.1	3.15	4	13.8	55.1	68.8	56.6	UnDef	UnDef	3.0	UnDef	6.7	13.5
30.02	5.0E-06	0.04	13.8	2.76	6	17.0	67.9	84.8	49.6	UnDef	UnDef	6.0	UnDef	8.3	16.6
31.00	5.0E-05	0.03	22.8	2.22	6	27.3	109.0	136.3	36.9	34	30.0	6.0	-0.11	10.7	21.3
31.99	5.0E-05	0.03	25.9	1.78	7	31.1	80.0	111.0	32.0	34	33.8	6.0	-0.10	10.0	22.1
32.97	5.0E-04	0.18	26.3	1.68	7	31.9	72.9	104.8	31.0	36	34.5	1.0	-0.08	8.0	18.4
33.96	5.0E-04	0.18	36.6	1.79	7	44.2	61.4	105.6	26.8	38	43.8	1.0	-0.12	8.2	22.6
34.94	5.0E-03	0.23	78.2	1.40	7	93.4	35.9	129.4	15.4	42	65.3	1.0	-0.17	4.8	27.7
35.92	5.0E-03	0.30	92.0	1.43	9	110.8	35.4	146.1	14.1	42	70.2	1.0	-0.18	4.8	31.9
36.91	5.0E-03	0.30	100.3	1.43	9	121.8	34.5	156.3	13.3	42	72.9	1.0	-0.19	4.8	34.6
37.89	5.0E-03	0.31	97.7	1.46	9	119.8	36.2	155.9	13.7	42	72.4	1.0	-0.19	5.0	34.3

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4728
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-05
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 13:06
CPT File: 294C05.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	19.8	0.68	3.45	14.1	4	114.6	0.33	0.33	0.00	1.73	12.7	21.9	1.56	0.15
6.40	32.9	1.17	3.55	80.4	5	114.6	0.39	0.39	0.00	1.60	15.7	25.2	2.60	0.20
7.30	27.5	1.09	3.94	34.9	4	114.6	0.44	0.44	0.00	1.50	17.6	26.5	2.17	0.24
8.20	29.0	1.11	3.82	17.0	5	114.6	0.49	0.49	0.00	1.42	13.9	19.8	2.28	0.25
9.19	24.8	1.01	4.08	9.1	4	114.6	0.55	0.55	0.00	1.35	15.9	21.4	1.94	0.00
10.17	28.2	0.99	3.50	6.0	5	114.6	0.61	0.61	0.00	1.28	13.5	17.4	2.21	0.29
11.15	18.2	0.68	3.75	9.9	4	114.6	0.66	0.66	0.00	1.23	11.6	14.3	1.40	0.20
12.14	33.2	1.00	3.00	16.9	5	114.6	0.72	0.72	0.00	1.18	15.9	18.7	2.60	0.23
13.21	36.7	1.11	3.02	45.5	5	114.6	0.78	0.78	0.00	1.13	17.6	19.9	2.87	0.26
14.27	24.9	0.86	3.45	36.7	5	114.6	0.84	0.84	0.00	1.09	11.9	13.0	1.92	0.30
15.26	20.6	0.75	3.65	16.7	4	114.6	0.90	0.90	0.00	1.06	13.1	13.9	1.57	0.19
16.24	13.8	0.52	3.78	10.7	3	111.4	0.95	0.95	0.01	1.03	13.2	13.6	1.03	0.00
17.22	15.8	0.57	3.64	13.0	4	114.6	1.01	0.97	0.04	1.02	10.1	10.2	1.18	0.00
18.21	15.4	0.57	3.69	12.1	4	114.6	1.07	1.00	0.07	1.00	9.8	9.8	1.14	0.00
19.19	14.6	0.58	3.95	5.1	3	111.4	1.12	1.02	0.10	0.99	14.0	13.9	1.08	0.00
20.18	6.9	0.23	3.39	3.0	3	111.4	1.18	1.05	0.13	0.98	6.6	6.5	0.46	0.00
21.16	5.1	0.08	1.57	15.2	4	114.6	1.23	1.07	0.16	0.97	3.3	3.1	0.31	0.00
22.15	8.6	0.12	1.38	17.8	5	114.6	1.29	1.10	0.19	0.96	4.1	3.9	0.59	0.09
23.13	5.5	0.08	1.42	23.1	5	114.6	1.34	1.12	0.22	0.94	2.6	2.5	0.34	0.00
24.11	5.3	0.05	0.86	43.6	1	79.6	1.39	1.14	0.25	0.94	2.5	2.4	0.31	0.00

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4728
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-05
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 13:06
CPT File: 294C05.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	5.0E-07	0.02	58.5	3.51	6	33.6	57.5	91.1	28.6	UnDef	UnDef	10.0	UnDef	14.3	36.2
6.40	5.0E-06	0.08	83.2	3.60	7	51.5	57.1	108.6	24.7	UnDef	UnDef	10.0	UnDef	12.3	37.5
7.30	5.0E-07	0.04	61.4	4.01	6	40.6	79.7	120.2	29.8	UnDef	UnDef	10.0	UnDef	18.7	45.2
8.20	5.0E-06	0.02	57.9	3.89	6	40.5	82.7	123.2	30.2	UnDef	UnDef	10.0	UnDef	14.3	34.1
9.19	5.0E-07	0.01	44.2	4.17	6	32.8	130.7	163.4	34.9	UnDef	UnDef	6.0	UnDef	21.4	42.8
10.17	5.0E-06	0.01	45.6	3.58	6	35.5	95.2	130.7	32.3	UnDef	UnDef	6.0	UnDef	14.5	31.9
11.15	5.0E-07	0.02	26.5	3.89	6	21.9	87.6	109.5	42.2	UnDef	UnDef	6.0	UnDef	14.3	28.6
12.14	5.0E-06	0.02	45.1	3.07	6	38.3	79.9	118.2	30.3	UnDef	UnDef	6.0	UnDef	13.7	32.5
13.21	5.0E-06	0.04	46.0	3.09	6	40.7	83.0	123.6	30.1	UnDef	UnDef	6.0	UnDef	14.4	34.3
14.27	5.0E-06	0.05	28.6	3.57	6	26.5	106.1	132.7	39.6	UnDef	UnDef	6.0	UnDef	13.0	26.0
15.26	5.0E-07	0.03	21.9	3.82	6	21.2	84.9	106.2	45.4	UnDef	UnDef	6.0	UnDef	13.9	27.7
16.24	5.0E-08	0.03	13.6	4.06	1	13.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
17.22	5.0E-07	0.02	15.2	3.89	1	15.7	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
18.21	5.0E-07	0.02	14.3	3.96	1	15.1	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-08	0.00	13.2	4.27	1	14.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
20.18	5.0E-08	-0.01	5.5	4.09	1	6.6	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
21.16	5.0E-07	0.08	3.6	2.07	4	4.8	19.3	24.1	80.4	UnDef	UnDef	1.5	UnDef	3.1	6.3
22.15	5.0E-06	0.05	6.7	1.62	4	8.1	32.2	40.3	58.9	UnDef	UnDef	3.0	UnDef	3.9	7.9
23.13	5.0E-06	0.12	3.7	1.87	4	5.1	20.5	25.6	77.7	UnDef	UnDef	1.5	UnDef	2.5	5.0
24.11	1.0E-07	0.29	3.4	1.17	4	4.8	19.3	24.1	73.6	UnDef	UnDef	1.5	UnDef	2.4	4.7

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4783
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-06
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 13:29
CPT File: 294C06.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	14.1	0.27	1.88	8.4	5	114.6	0.33	0.33	0.00	1.73	6.8	11.7	1.10	0.09
6.40	27.3	0.68	2.50	28.2	6	114.6	0.39	0.39	0.00	1.60	10.5	16.7	2.15	0.13
7.30	20.4	0.74	3.62	12.9	4	114.6	0.44	0.44	0.00	1.50	13.0	19.6	1.60	0.23
8.20	22.3	0.82	3.70	7.4	4	114.6	0.49	0.49	0.00	1.42	14.2	20.2	1.74	0.29
9.19	24.3	0.86	3.55	8.4	5	114.6	0.55	0.55	0.00	1.35	11.7	15.7	1.90	0.29
10.17	28.2	0.93	3.29	15.8	5	114.6	0.61	0.61	0.00	1.28	13.5	17.4	2.21	0.24
11.15	26.4	0.86	3.25	5.4	5	114.6	0.66	0.66	0.00	1.23	12.6	15.5	2.06	0.31
12.14	16.4	0.51	3.10	-0.2	5	114.6	0.72	0.72	0.00	1.18	7.9	9.3	1.26	0.16
13.21	30.1	0.92	3.04	11.4	5	114.6	0.78	0.78	0.00	1.13	14.4	16.3	2.35	0.31
14.27	38.8	1.23	3.16	23.5	5	114.6	0.84	0.84	0.00	1.09	18.6	20.3	3.04	0.31
15.26	34.3	1.12	3.28	16.9	5	114.6	0.90	0.90	0.00	1.06	16.4	17.3	2.67	0.00
16.24	24.8	0.94	3.77	6.6	4	114.6	0.95	0.95	0.01	1.03	15.9	16.3	1.91	0.26
17.22	20.2	0.77	3.82	3.7	4	114.6	1.01	0.97	0.04	1.01	12.9	13.1	1.54	0.17
18.21	34.3	0.75	2.18	0.3	6	114.6	1.07	1.00	0.07	1.00	13.1	13.2	2.66	0.20
19.19	30.7	0.78	2.53	0.6	6	114.6	1.12	1.02	0.10	0.99	11.7	11.6	2.36	0.38
20.18	34.7	0.79	2.28	0.8	6	114.6	1.18	1.05	0.13	0.98	13.3	13.0	2.68	0.24
21.16	31.2	0.61	1.94	0.8	6	114.6	1.24	1.07	0.16	0.96	12.0	11.5	2.40	0.20
22.15	19.4	0.50	2.60	1.2	5	114.6	1.29	1.10	0.19	0.95	9.3	8.9	1.45	0.15
23.13	46.4	0.73	1.57	12.0	7	117.8	1.35	1.13	0.22	0.94	14.8	14.0	UnDef	0.15
24.11	42.7	1.25	2.93	39.5	6	114.6	1.41	1.15	0.25	0.93	16.4	15.2	3.31	0.00

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19e
Run No: 02-1114-2212-4783
Job No: 02-294SH
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT HIGH SCHOOL
Location: CPT-06
Engineer: MARK MURPHY
CPT Date: 02/11/11
CPT Time: 13:29
CPT File: 294C06.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 4.88 (ft): 16.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

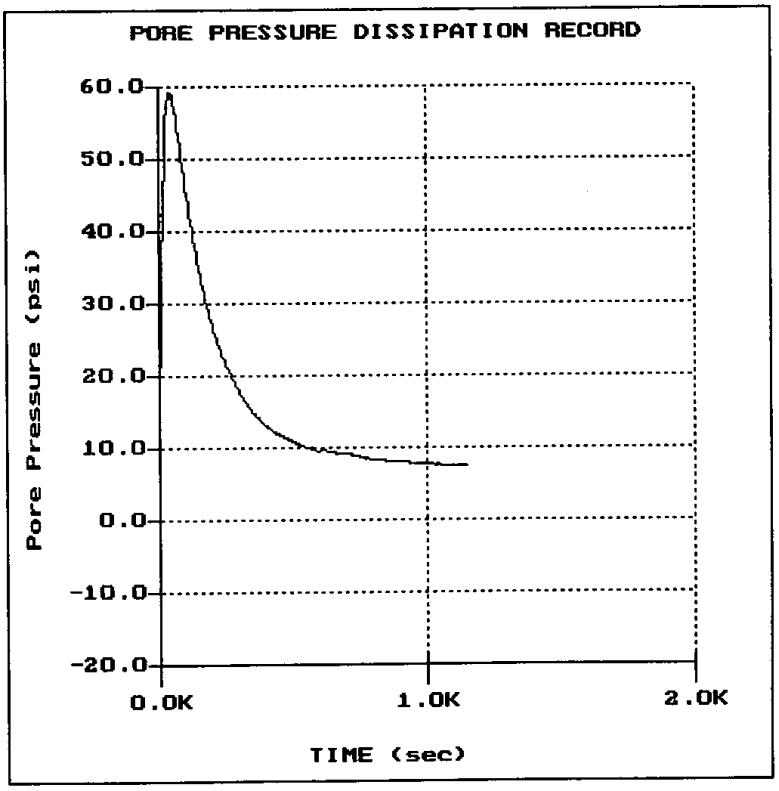
Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DelteQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	5.0E-06	0.02	41.3	1.93	7	23.9	30.2	54.2	25.9	UnDef	UnDef	6.0	UnDef	6.3	18.0
6.40	5.0E-05	0.03	69.0	2.54	7	42.8	38.0	80.7	22.6	40	42.9	10.0	-0.25	7.0	23.7
7.30	5.0E-07	0.02	45.2	3.70	6	30.0	87.3	117.4	32.9	UnDef	UnDef	6.0	UnDef	17.1	36.6
8.20	5.0E-07	0.01	44.1	3.79	6	31.0	99.5	130.5	33.6	UnDef	UnDef	6.0	UnDef	18.4	38.7
9.19	5.0E-06	0.01	43.3	3.63	6	32.1	98.3	130.5	33.2	UnDef	UnDef	6.0	UnDef	14.0	29.7
10.17	5.0E-06	0.02	45.6	3.36	6	35.5	85.0	120.5	31.4	UnDef	UnDef	6.0	UnDef	13.7	31.1
11.15	5.0E-06	0.01	38.8	3.34	6	31.7	103.4	135.0	33.7	UnDef	UnDef	6.0	UnDef	14.2	29.7
12.14	5.0E-06	0.00	21.8	3.24	6	18.9	75.7	94.7	42.9	UnDef	UnDef	6.0	UnDef	9.3	18.5
13.21	5.0E-06	0.01	37.6	3.12	6	33.4	101.9	135.2	33.2	UnDef	UnDef	6.0	UnDef	14.5	30.9
14.27	5.0E-06	0.02	45.1	3.23	6	41.4	94.1	135.5	31.0	UnDef	UnDef	6.0	UnDef	15.6	35.8
15.26	5.0E-06	0.02	37.2	3.37	6	35.4	129.8	165.2	34.4	UnDef	UnDef	6.0	UnDef	16.7	34.1
16.24	5.0E-07	0.01	25.2	3.92	6	25.0	99.9	124.9	43.2	UnDef	UnDef	6.0	UnDef	16.3	32.6
17.22	5.0E-07	0.00	19.8	4.02	4	20.1	80.2	100.3	48.2	UnDef	UnDef	6.0	UnDef	13.1	26.2
18.21	5.0E-05	0.00	33.3	2.25	7	33.6	74.2	107.9	30.8	36	36.0	6.0	-0.16	10.0	23.1
19.19	5.0E-05	0.00	28.9	2.62	6	29.7	118.7	148.4	35.0	36	32.4	6.0	-0.16	11.6	23.2
20.18	5.0E-05	0.00	31.9	2.36	6	33.1	86.1	119.3	32.0	36	35.6	6.0	-0.16	10.7	23.7
21.16	5.0E-05	0.00	27.9	2.02	6	29.5	78.8	108.3	32.2	36	32.3	6.0	-0.13	9.6	21.2
22.15	5.0E-06	-0.01	16.5	2.79	6	18.1	72.4	90.5	46.1	UnDef	UnDef	6.0	UnDef	8.9	17.7
23.13	5.0E-04	0.00	40.0	1.61	7	42.8	46.3	89.1	24.5	38	42.9	1.0	-0.14	6.7	20.7
24.11	5.0E-05	0.02	35.8	3.03	6	39.0	124.4	163.4	33.5	38	40.3	6.0	-0.20	13.9	29.1

3.3 PORE PRESSURE DISSIPATION PLOTS

MACTEC

Sounding: TAFT HIGH SCHOOL
Location: CPT-02

Oversight: MARK MURPHY
Date:11:11:02 09:58



File: 294C02.PPC
Depth (m): 10.20
(ft): 33.46
Duration : 1150.0s
U-min: 7.45 1150.0s
U-max: 59.24 40.0s

GREGG IN SITU, INC.
November 18, 2002
02-294sh

MACTEC
Taft High School
Woodland Hills, Ca.

We hope the information presented is sufficient for your purposes. We recommend that all data be carefully reviewed by qualified personnel to verify the data and make appropriate recommendations. If you have any questions, please do not hesitate to contact our office at (562) 427-6899.

Sincerely,
GREGG IN SITU, INC.

Brian Savela
Operations Manager

APPENDIX

ELECTRICAL PIEZOCONE

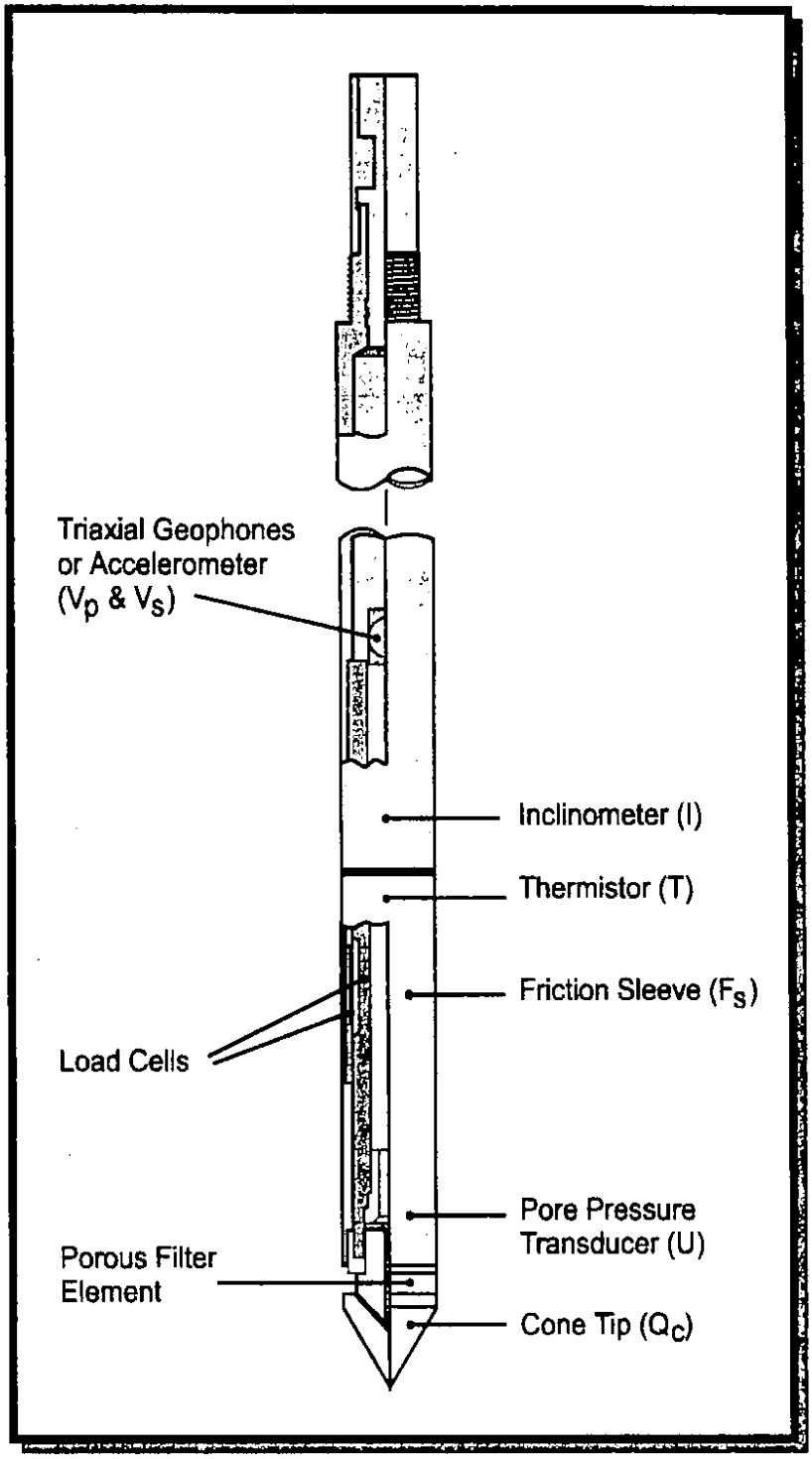
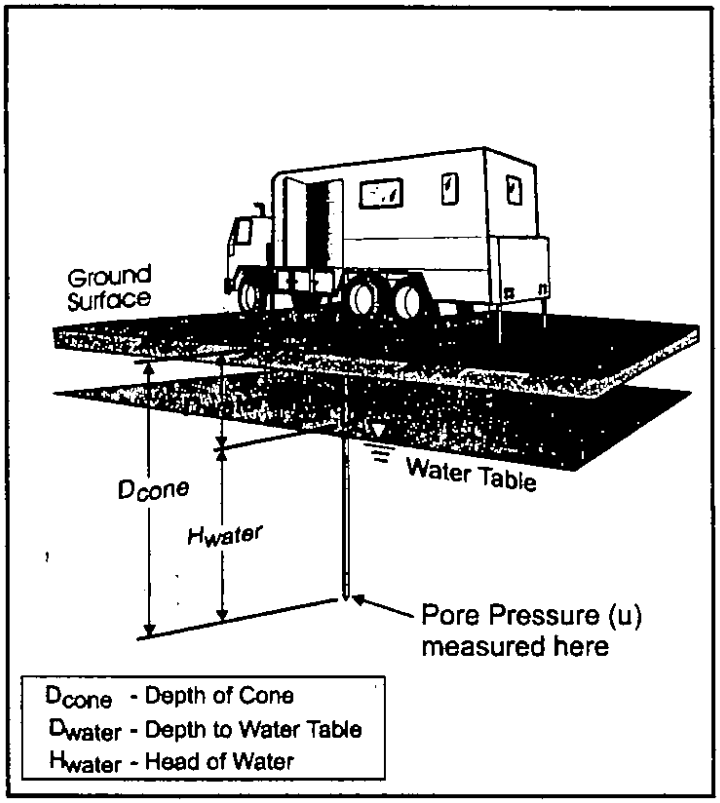
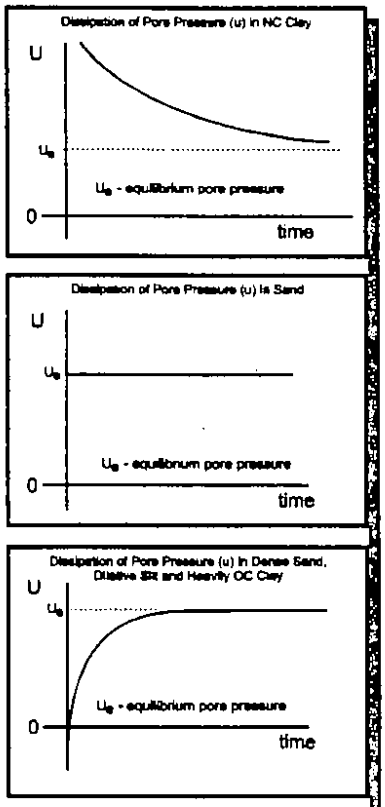


Figure 1

PPDT CORRELATION





Water Table Calculation

$$D_{water} = D_{cone} - H_{water}$$

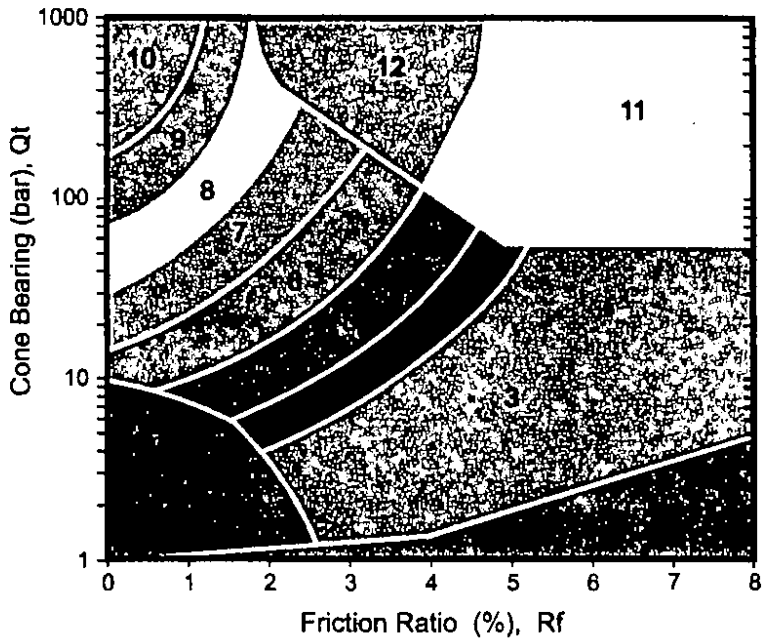
where $H_{water} = U_e$ (depth units)

Useful Conversion Factors:

1psi = 0.704m = 2.31 feet (water)
1tsf = 0.958 bar = 13.9 psi
1m = 3.28 feet

Figure 2

SOIL CLASSIFICATION CHART



Zone	Q_t / N	Soil Behaviour Type
1	2	sensitive fine grained
2	1	organic material
3	1	clay
4	1.5	silty clay to clay
5	2	clayey silt to silty clay
6	2.5	sandy silt to clayey silt
7	3	silty sand to sandy silt
8	4	sand to silty sand
9	5	sand
10	6	gravelly sand to sand
11	1	very stiff fine grained *
12	2	sand to clayey sand *

* overconsolidated or cemented

After Robertson and Campenella

Figure 3

REFERENCES

Robertson, P.K. and Campanella, R.G. and Wightman, A., 1983 "SPT-CPT Correlations", Journal of the Geotechnical Division, ASCE, Vol. 109, No. GT11, Nov., pp. 1449-1460.

Robertson, P.K. and Wride C.E., 1998 "Evaluating Cyclic Liquefaction Potential Using The Cone Penetration Test", Journal of Geotechnical Division, Mar. 1998, pp. 442-459.

Robertson, P.K. and Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of In Situ 86, ASCE Specialty Conference, Blacksburg, Virginia.

Robertson, P.K. and Campanella, R.G., 1988, "Guidelines for Use, Interpretation and Application of the CPT and CPTU", UBC, Soil Mechanics Series No. 105, Civil Eng. Dept., Vancouver, B.C., V6T 1W5, Canada.

Robertson, P.K., Campanella, R.G., Gillespie, D. and Rice, A., 1986, "Seismic CPT to Measure In Situ Shear Wave Velocity", Journal of Geotechnical Engineering, ASCE, Vol. 112, No. 8, pp. 791-803.

Gregg In Situ CPT Interpretations as of January 7, 1999 (Release 1.00.19)

Gregg In Situ's interpretation routine should be considered a calculator of current published CPT correlations and is subject to change to reflect the current state of practice. The interpreted values are not considered valid for all soil types. The interpretations are presented only as a guide for geotechnical use and should be carefully scrutinized for consideration in any geotechnical design. Reference to current literature is strongly recommended.

The CPT interpretations are based on values of tip, sleeve friction and pore pressure averaged over a user specified interval (typically 0.25m). Note that Qt is the recorded tip value, Qc, corrected for pore pressure effects. Since all Gregg In Situ cones have equal end area friction sleeves, pore pressure corrections to sleeve friction, Fs, are not required.

The tip correction is: $Qt = Qc + (1-a) \bullet Ud$

where: *Qt* is the corrected tip load
Qc is the recorded tip load
Ud is the recorded dynamic pore pressure
a is the Net Area Ratio for the cone (typically 0.85 for Gregg In Situ cones)

Effective vertical overburden stresses are calculated based on a hydrostatic distribution of equilibrium pore pressures below the water table or from a user defined equilibrium pore pressure profile (this can be obtained from CPT dissipation tests). The stress calculations use unit weights assigned to the Soil Behavior Type zones or from a user defined unit weight profile.

Details regarding the interpretation methods for all of the interpreted parameters is given in table 1. The appropriate references referred to in table 1 are listed in table 2.

The estimated Soil Behavior Type is based on the charts developed by Robertson and Campanella shown in figure 1.

Table 1 CPT Interpretation Methods

Interpreted Parameter	Description	Equation	Ref
Depth	mid layer depth		
AvgQt	Averaged corrected tip (Qt)	$AvgQt = \frac{1}{n}\sum_{i=1}^{n} Qt_i$	
AvgFs	Averaged sleeve friction (Fs)	$AvgFs = \frac{1}{n}\sum_{i=1}^{n} Fs_i$	
AvgRf	Averaged friction ratio (Rf)	$AvgRf = 100\% \bullet \frac{AvgFs}{AvgQt}$	
AvgUd	Averaged dynamic pore pressure (Ud)	$AvgUd = \frac{1}{n}\sum_{i=1}^{n} Ud_i$	
SBT	Soil Behavior Type as defined by Robertson and Campanella		1

U.Wt.	Unit Weight of soil determined from: 1) uniform value or 2) value assigned to each SBT zone 3) user supplied unit weight profile		
TStress	Total vertical overburden stress at mid layer depth	$TStress = \sum_{i=1}^{n} \gamma_i h_i$ where γ_i is layer unit weight h_i is layer thickness	
EStress	Effective vertical overburden stress at mid layer depth	$EStress = TStress - Ueq$	
Ueq	Equilibrium pore pressure determined from: 1) hydrostatic from water table depth 2) user supplied profile		
Cn	SPT N_{60} overburden correction factor	$Cn=(\sigma_v')^{-0.5}$ where σ_v' is in tsf $0.5 < C_n < 2.0$	
N_{60}	SPT N value at 60% energy calculated from Qt/N ratios assigned to each SBT zone		3
$(N1)_{60}$	SPT N_{60} value corrected for overburden pressure	$N1_{60} = Cn \bullet N_{60}$	3
$\Delta(N1)_{60}$	Equivalent Clean Sand Correction to $(N1)_{60}$	$\Delta(N1)_{60} = \frac{K_{SPT}}{1 - K_{SPT}} \bullet (N1)_{60}$ Where: K_{SPT} is defined as: 0.0 for FC < 5% 0.0167 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35% FC - Fines Content in %	7
$(N1)_{60cs}$	Equivalent Clean Sand $(N1)_{60}$	$(N1)_{60cs} = (N1)_{60} + \Delta(N1)_{60}$	7
Su	Undrained shear strength - Nkt is use selectable	$Su = \frac{Qt - \sigma_v}{N_{kt}}$	2
k	Coefficient of permeablity (assigned to each SBT zone)		6
Bq	Pore pressure parameter	$Bq = \frac{\Delta u}{Qt - \sigma_v}$	2
Qtn	Normalized Qt for Soil Behavior Type classification as defined by Robertson, 1990	$Qtn = \frac{Qt - \sigma_v}{\sigma_v'}$	4
Rfn	Normalized Rf for Soil Behavior Type classification as defined by Robertson, 1990	$Rfn = 100\% \bullet \frac{f_s}{Qt - \sigma_v}$	4
SBTn	Normalized Soil Behavior Type (slightly modified from that published by Robertson, 1990. This version includes all the soil zones of the original non-normalized SBT chart - see figure 1)		4
Qc1	Normalized Qt for seismic analysis	$qc1 = qc \bullet (Pa/\sigma_v')^{0.5}$ where: Pa = atm. pressure	5
Qc1N	Dimensionless Normalized Qt1	qc1N = qc1 / Pa where: Pa = atm. pressure	

ΔQc1N1	Equivalent clean sand correction	$\Delta qc1N = \frac{K_{CPT}}{1 - K_{CPT}} \bullet qc1N$ Where: K_{CPT} is defined as: 0.0 for FC < 5% 0.0267 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35% FC - Fines Content in %	5
Qc1Ncs	Clean Sand equivalent Qc1N	$qc1Ncs = qc1N + \Delta qc1N$	5
Ic	Soil index for estimating grain characteristics	$Ic = [(3.47 - \log Q)^2 + (\log F + 1.22)^2]^{0.5}$	5
FC	Fines content (%)	$FC=1.75(Ic^{3.25}) - 3.7$ $FC=100$ for $Ic > 3.5$ $FC=0$ for $Ic < 1.26$ $FC = 5\%$ if $1.64 < Ic < 2.6$ AND $Rfn<0.5$	8
PHI	Friction Angle	Campanella and Robertson Durunoglu and Mitchel Janbu	1
Dr	Relative Density	Ticino Sand Hokksund Sand Schmertmann 1976 Jamiolkowski - All Sands	1
OCR	Over Consolidation Ratio		1
State Parameter			9
CRR	Cyclic Resistance Ratio		7

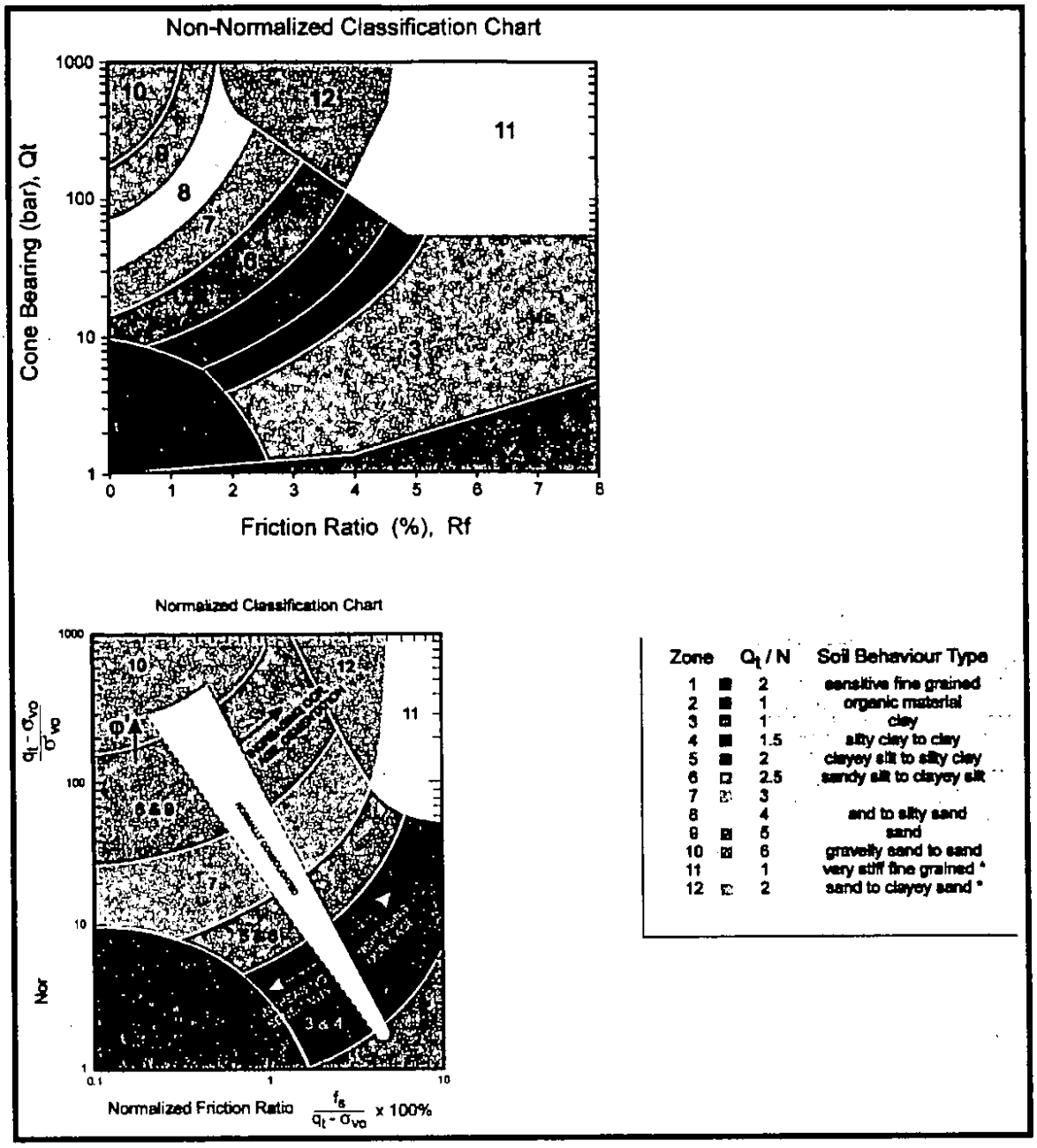


Figure 1 Non-Normalized and Normalized Soil Behavior Type Classification Charts

Table 2 References

No.	Reference
1	Robertson, P.K. and Campanella, R.G., 1986, "Guidelines for Use, Interpretation and Application of the CPT and CPTU", UBC, Soil Mechanics Series No. 105, Civil Eng. Dept., Vancouver, B.C., Canada
2	Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.
3	Robertson, P.K. and Campanella, R.G., 1989, "Guidelines for Geotechnical Design Using CPT and CPTU", UBC, Soil Mechanics Series No. 120, Civil Eng. Dept., Vancouver, B.C., Canada
4	Robertson, P.K., 1990, "Soil Classification Using the Cone Penetration Test", Canadian Geotechnical Journal, Volume 27.
5	Robertson, P.K. and Fear, C.E., 1995, "Liquefaction of Sands and its Evaluation", Keynote Lecture, First International Conference on Earthquake Geotechnical Engineering, Tokyo, Japan.
6	Gregg In Situ Internal Report
7	Robertson, P.K. and Wride, C.E., 1997, "Cyclic Liquefaction and its Evaluation Based on SPT and CPT", NCEER Workshop Paper, January 22, 1997
8	Wride, C.E. and Robertson, P.K., 1997, "Phase II Data Review Report (Massey and Kidd Sites, Fraser River Delta)", Volume 1 - Data Report (June 1997), University of Alberta.
9	Plewes, H.D., Davies, M.P. and Jefferies, M.G., 1992, "CPT Based Screening Procedure for Evaluating Liquefaction Susceptibility", 45th Canadian Geotechnical Conference, Toronto, Ontario, October 1992.

PRESENTATION OF CONE PENETRATION TEST DATA

TAFT HIGH SCHOOL

WOODLAND HILLS, CALIFORNIA

Prepared for:

LAW CRANDALL
Los Angeles, California

Prepared by:

GREGG IN SITU, INC.
Signal Hill, California
02-311sh

Prepared on:

December 2, 2002

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- Figure 2 Soil Classification Chart
- References

ATTACHMENTS

- Interpretation Method
- Computer Diskette with ASCII Files

PRESENTATION OF CONE PENETRATION TEST DATA

1.0 INTRODUCTION

This report presents the results of a Cone Penetration Testing (CPT) program carried out at the Taft High School site located in Woodland Hills, CA. The work was performed on November 23rd, 2002. The scope of work was performed as directed by Law Crandall personnel.

2.0 FIELD EQUIPMENT & PROCEDURES

The Cone Penetration Tests (CPT) were carried out by GREGG IN SITU, INC. of Signal Hill, CA using an integrated electronic cone system. The CPT soundings were performed in accordance with ASTM standards (D 5778-95). A 20 ton capacity cone was used for all of the soundings (figure 1). This cone has a tip area of 15 cm^2 and friction sleeve area of 225 cm^2. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cones used during the program recorded the following parameters at 2.5 cm depth intervals:

- Tip Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (U)

The above parameters were printed simultaneously on a printer and stored on a computer diskette for future analysis and reference.

The pore water pressure element was located directly behind the cone tip. The pore water pressure element was 5.0 mm thick and consisted of porous plastic. Each of the elements were saturated in silicon oil under vacuum pressure prior to penetration. Pore pressure dissipations were recorded at 5 second intervals when appropriate during pauses in the penetration.

A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

The cones were pushed using GREGG IN SITU's portable 'RAMSET' CPT rig, having a down pressure capacity of approximately 14 tons. 5 CPT soundings were performed. The penetration tests were carried to depths of approximately 30 and 34 feet below ground surface. Test locations were determined in the field by Law Crandall personnel.

3.0 CONE PENETRATION TEST DATA & INTERPRETATION

The cone penetration test data is presented in graphical form. Penetration depths are referenced to existing ground surface. This data includes CPT logs of measured soil parameters and a computer tabulation of interpreted soil types along with additional geotechnical parameters and pore pressure dissipation data.

The stratigraphic interpretation is based on relationships between cone bearing (qc), sleeve friction (fs), and penetration pore pressure (U). The friction ratio (Rf), which is sleeve friction divided by cone bearing, is a calculated parameter which is used to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone bearing and generate large excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little in the way of excess pore water pressures.

The interpretation of soils encountered on this project was carried out using recent correlations developed by Robertson et al, 1988. It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and U. In these situations, experience and judgement and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type. The soil classification chart (figure 2) used to interpret soil types based on qc and Rf is provided in the Appendix.

Interpreted output requires that depth of water be entered for calculation purposes, where depth to water is unknown an arbitrary depth in excess of 10 feet of the deepest sounding is entered as the groundwater depth.

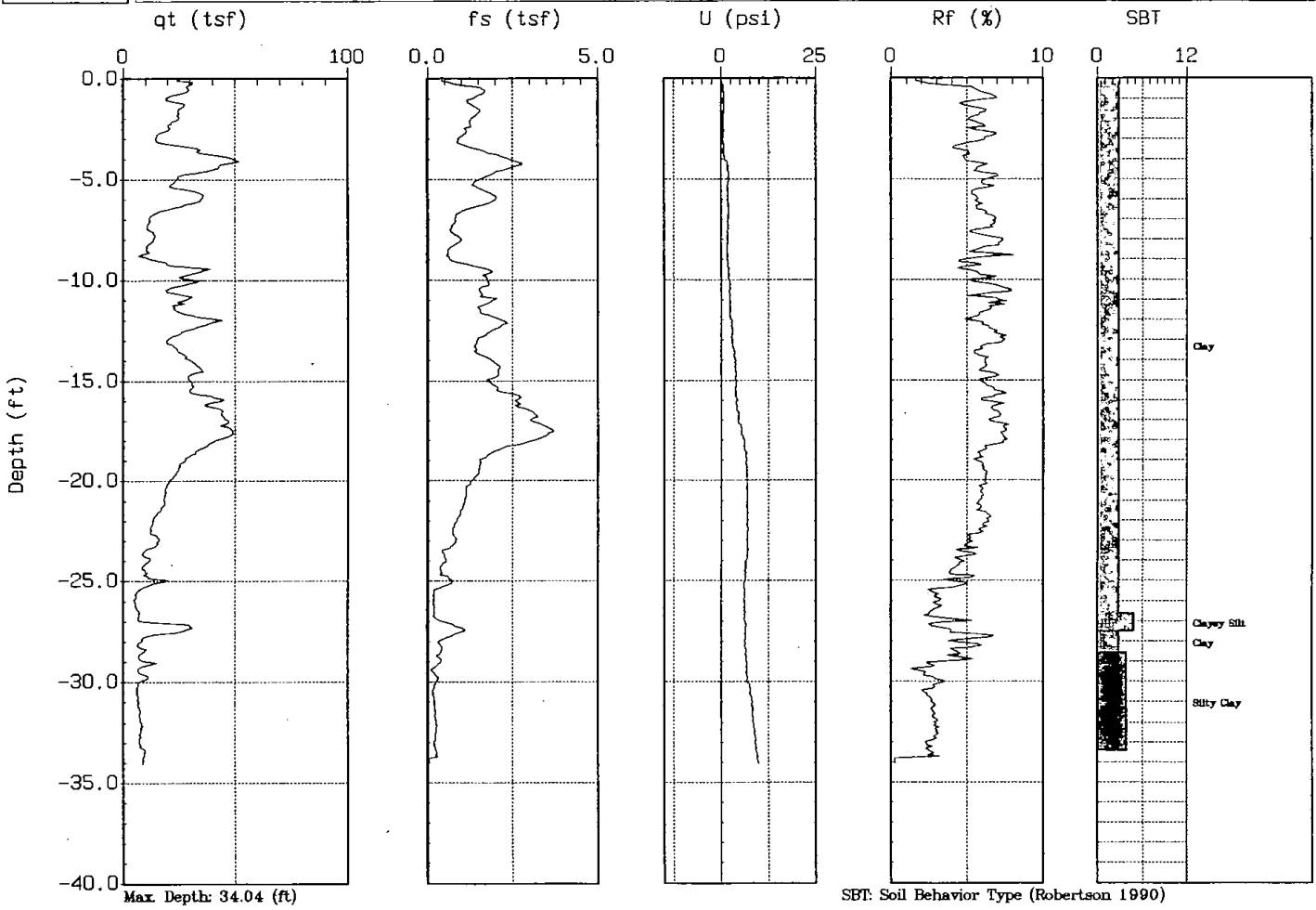
3.1 CPT PLOTS

GREGG

MACTEC

Site : TAFT H.S.
Location : CPT-07

Engineer : SATHI
Date : 11:23:02 13:15



Max. Depth: 34.04 (ft)

Depth Inc.: 0.082 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

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Location : CPT-08

Engineer : SATHI
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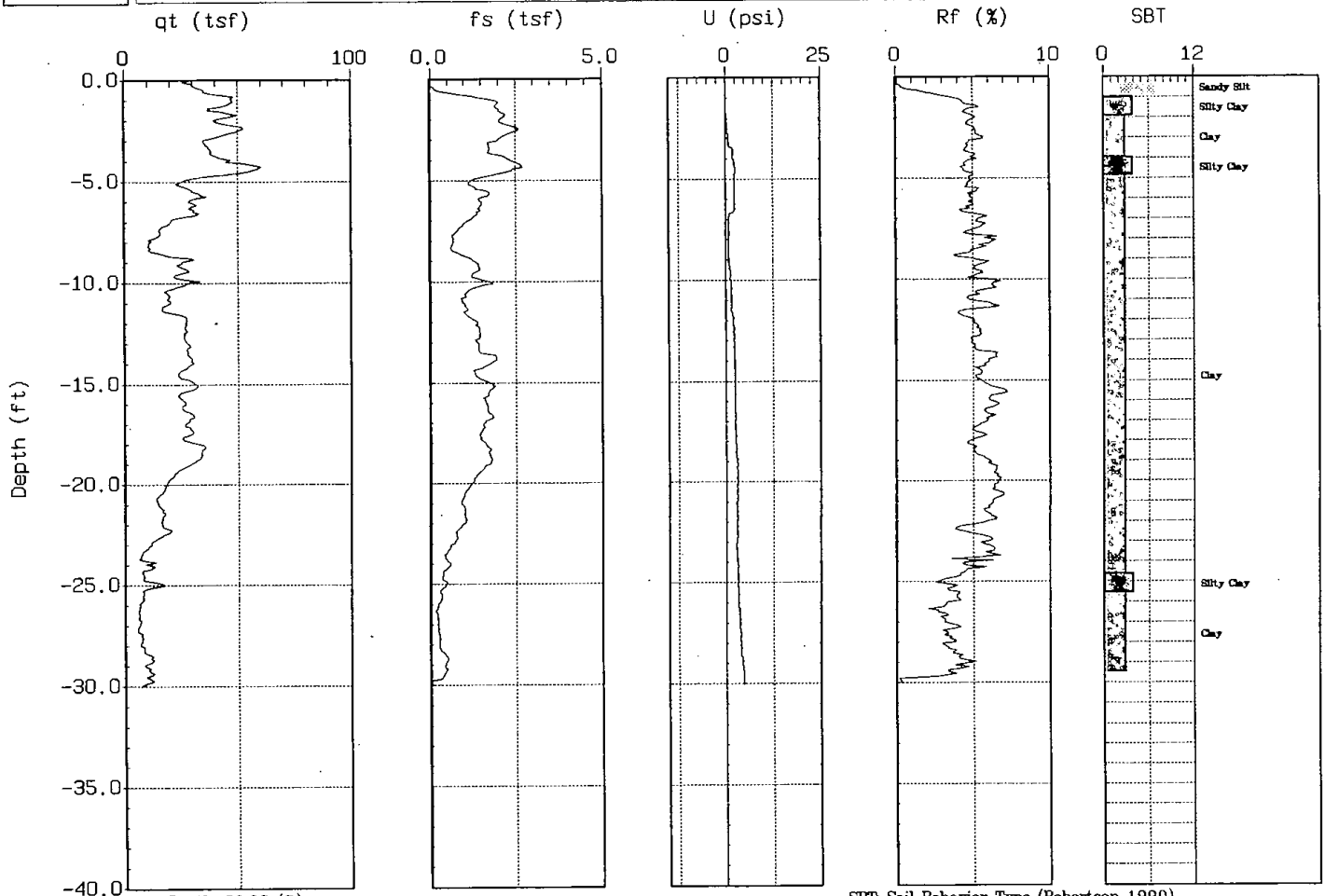

Max. Depth: 30.02 (ft)

Depth Inc.: 0.082 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

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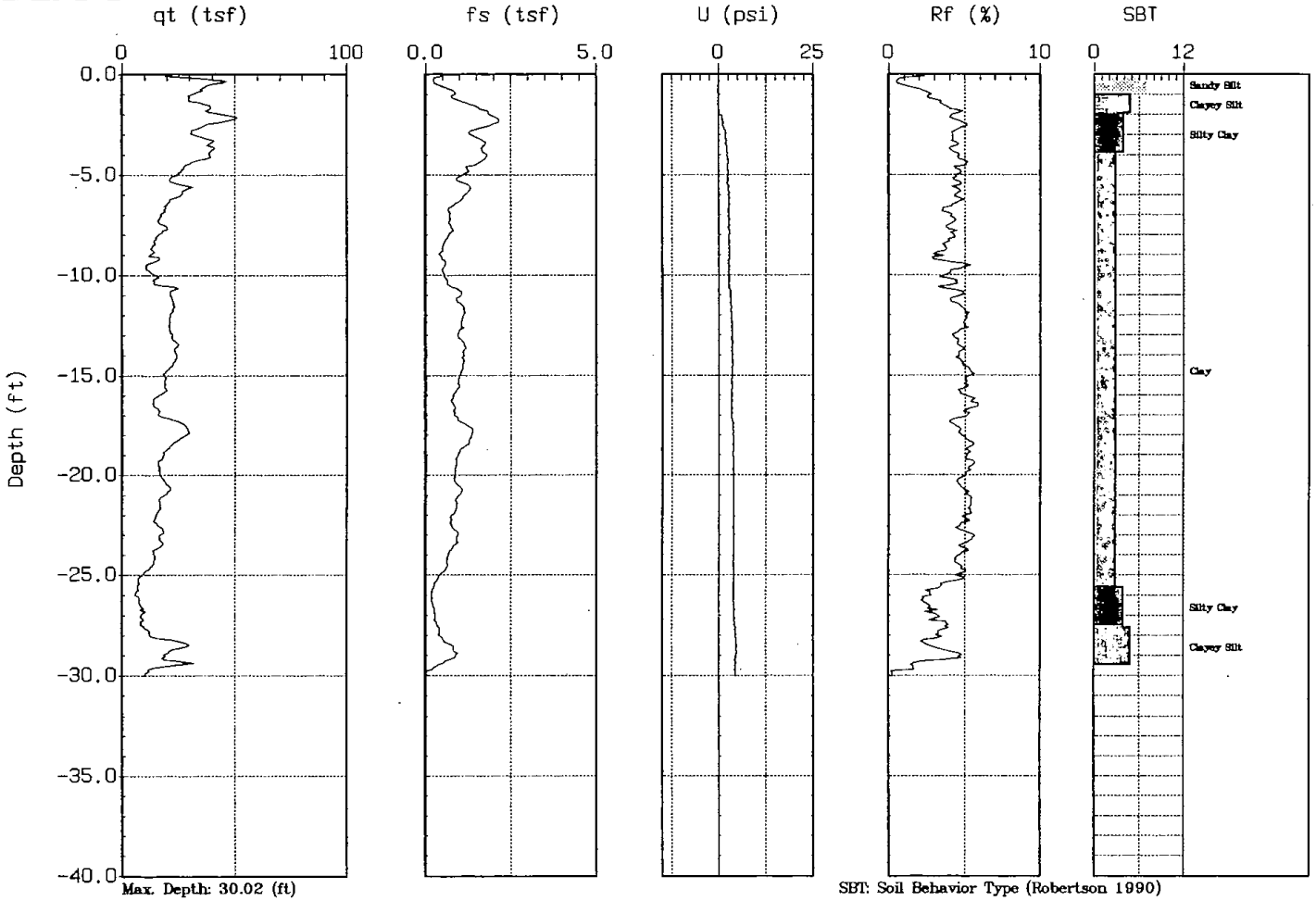
Location : CPT-10

Engineer : SATHI
Date : 11:23:02 12:19



Max. Depth: 30.02 (ft)

Depth Inc.: 0.082 (ft)

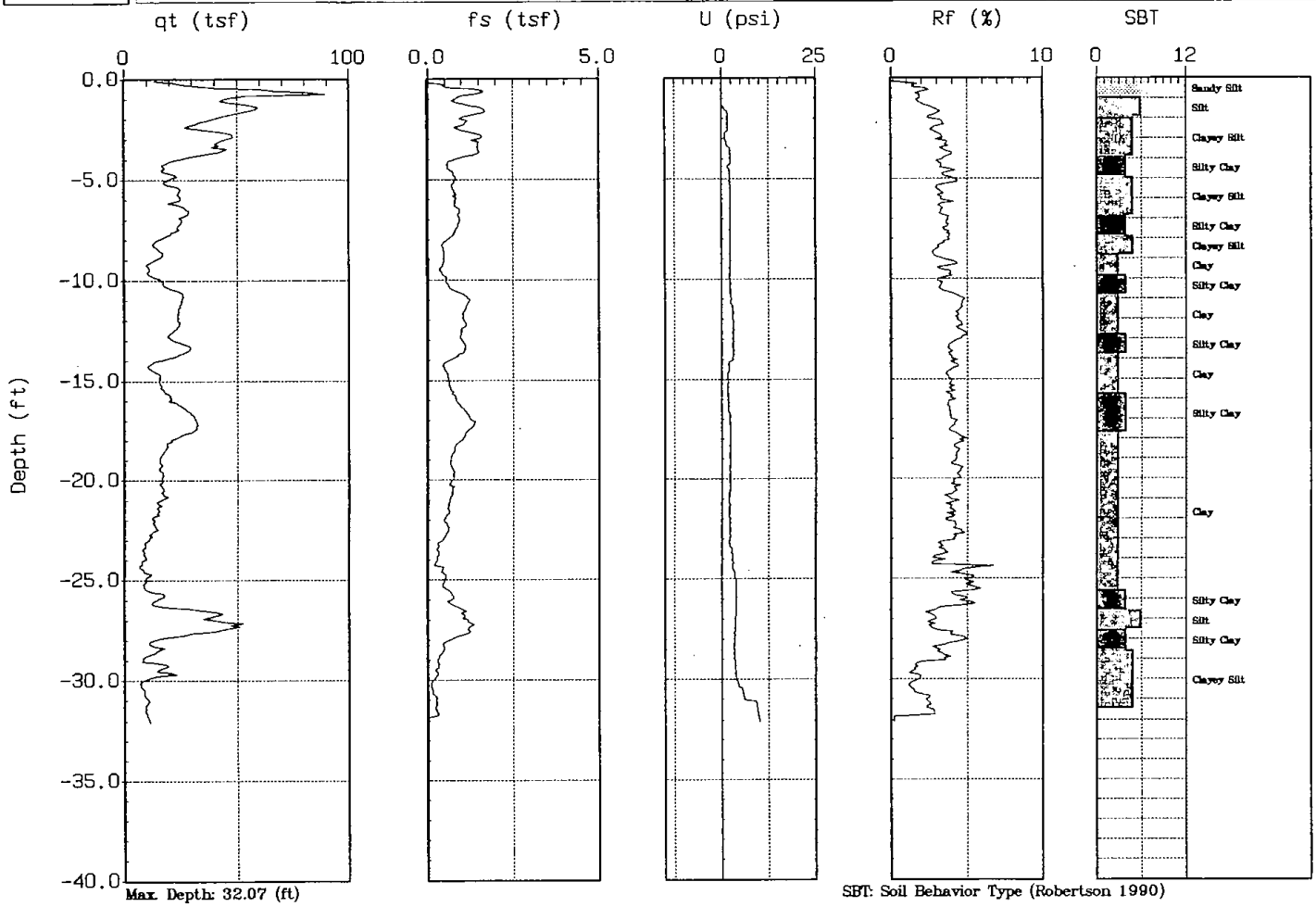
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT H.S.
Location : CPT-11

Engineer : SATHI
Date : 11:23:02 11:29



Max. Depth: 32.07 (ft)

Depth Inc.: 0.082 (ft)

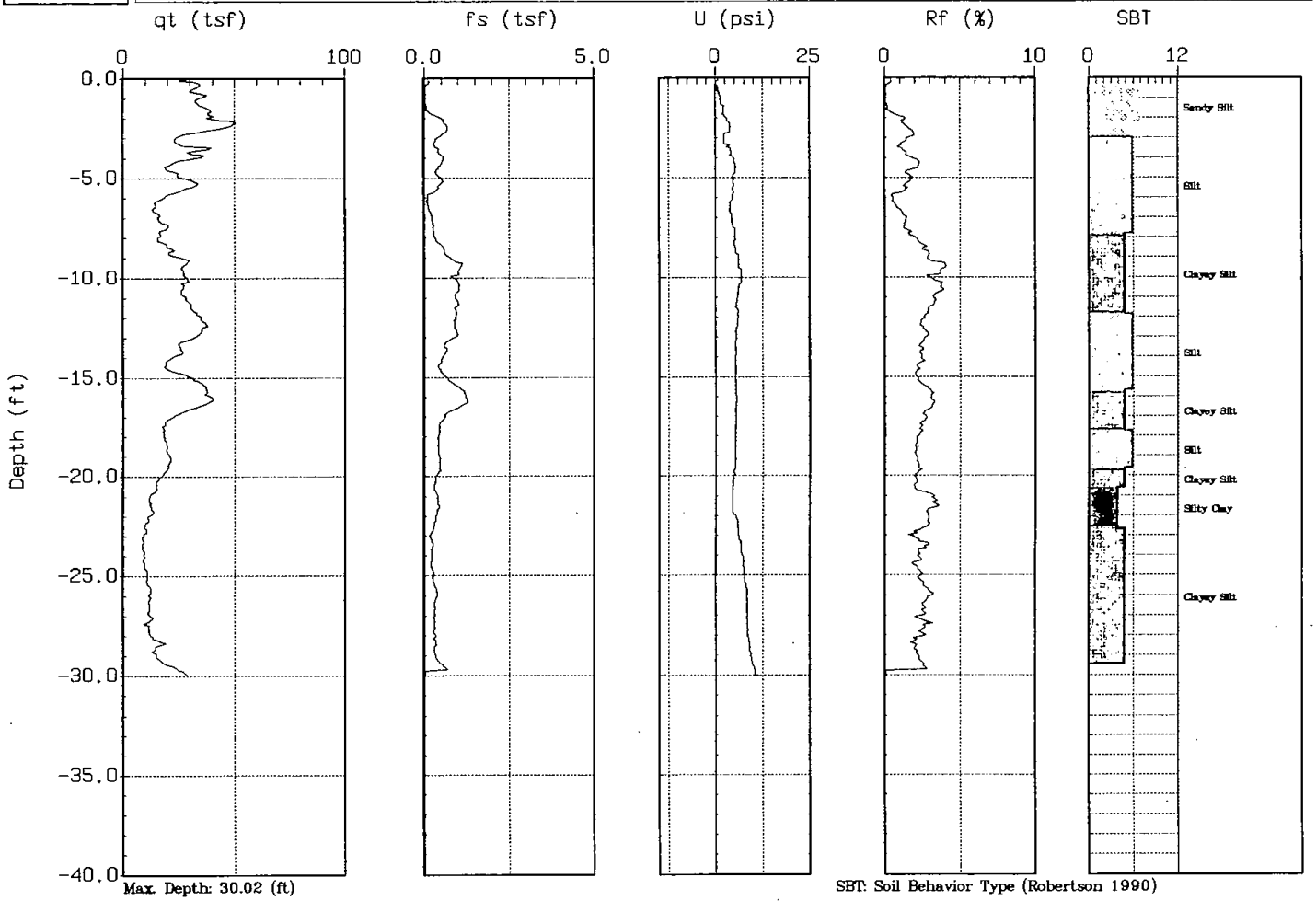
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT H.S.
Location : CPT-12

Engineer : SATHI
Date : 11:23:02 10:31



Max. Depth: 30.02 (ft)

Depth Inc.: 0.082 (ft)

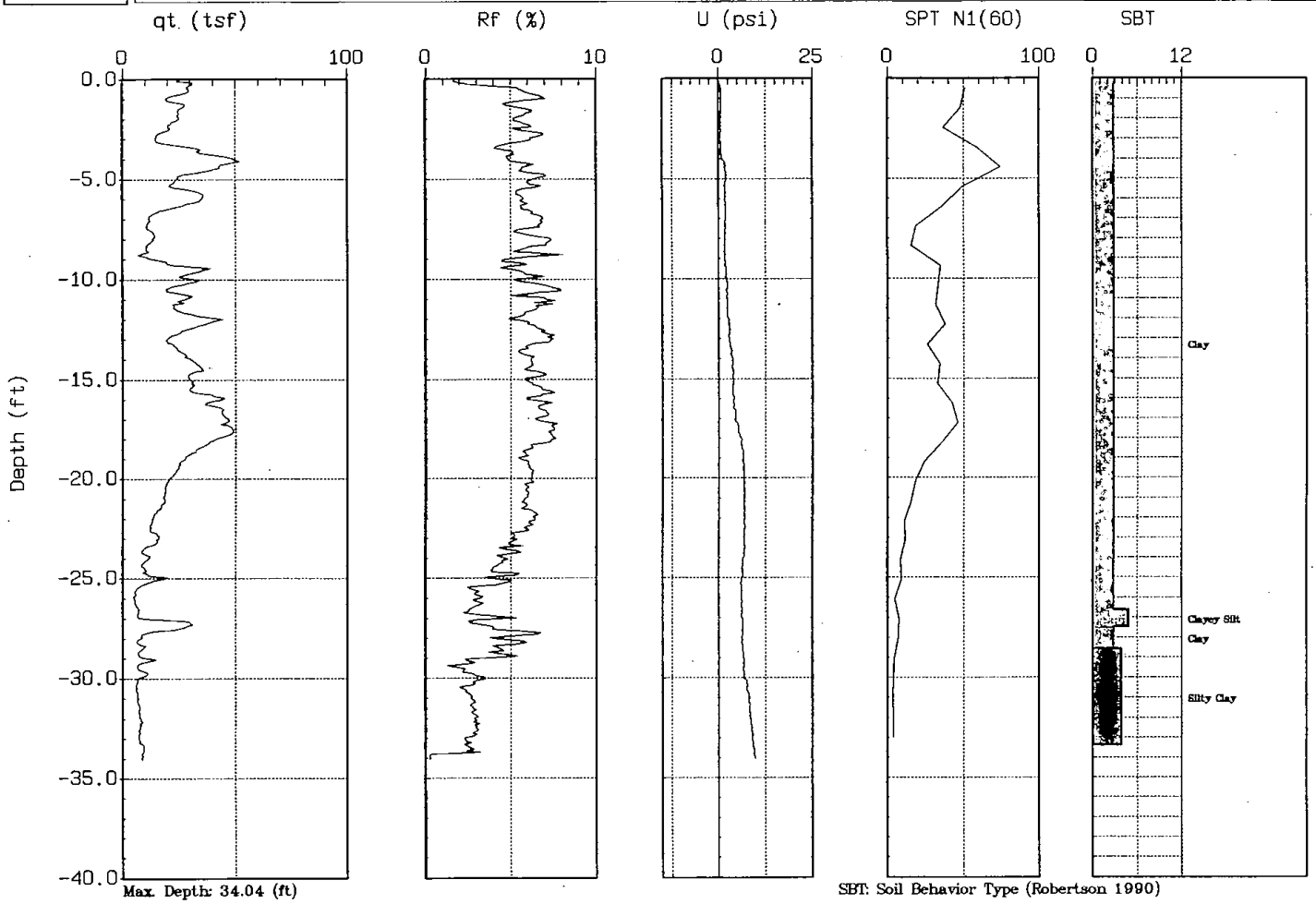
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT H.S.
Location : CPT-07

Engineer : SATHI
Date : 11:23:02 13:15



Max. Depth: 34.04 (ft)

Depth Inc.: 0.082 (ft)

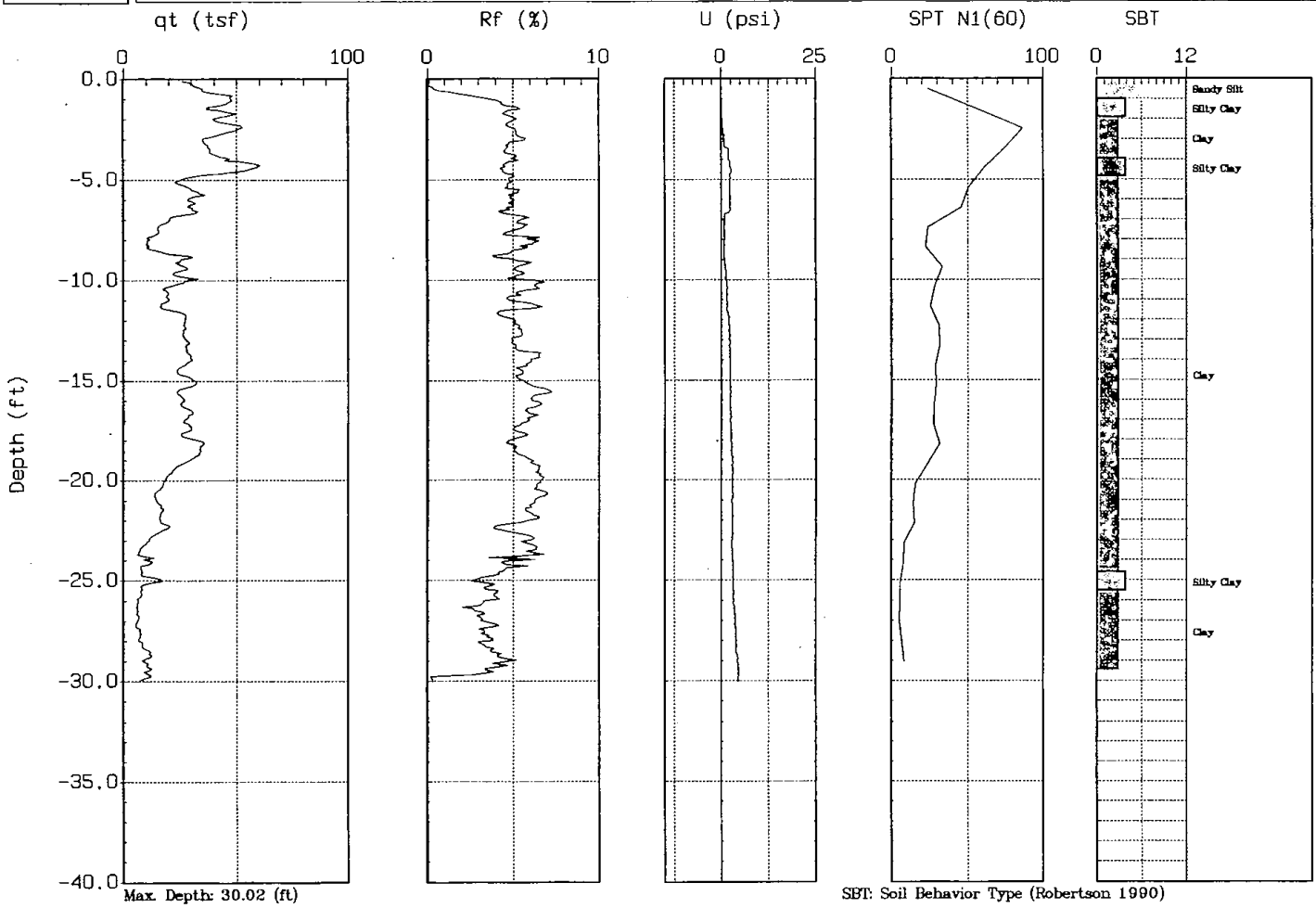
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT H.S.
Location : CPT-08

Engineer : SATHI
Date : 11:23:02 12:50



Max. Depth: 30.02 (ft)

Depth Inc.: 0.082 (ft)

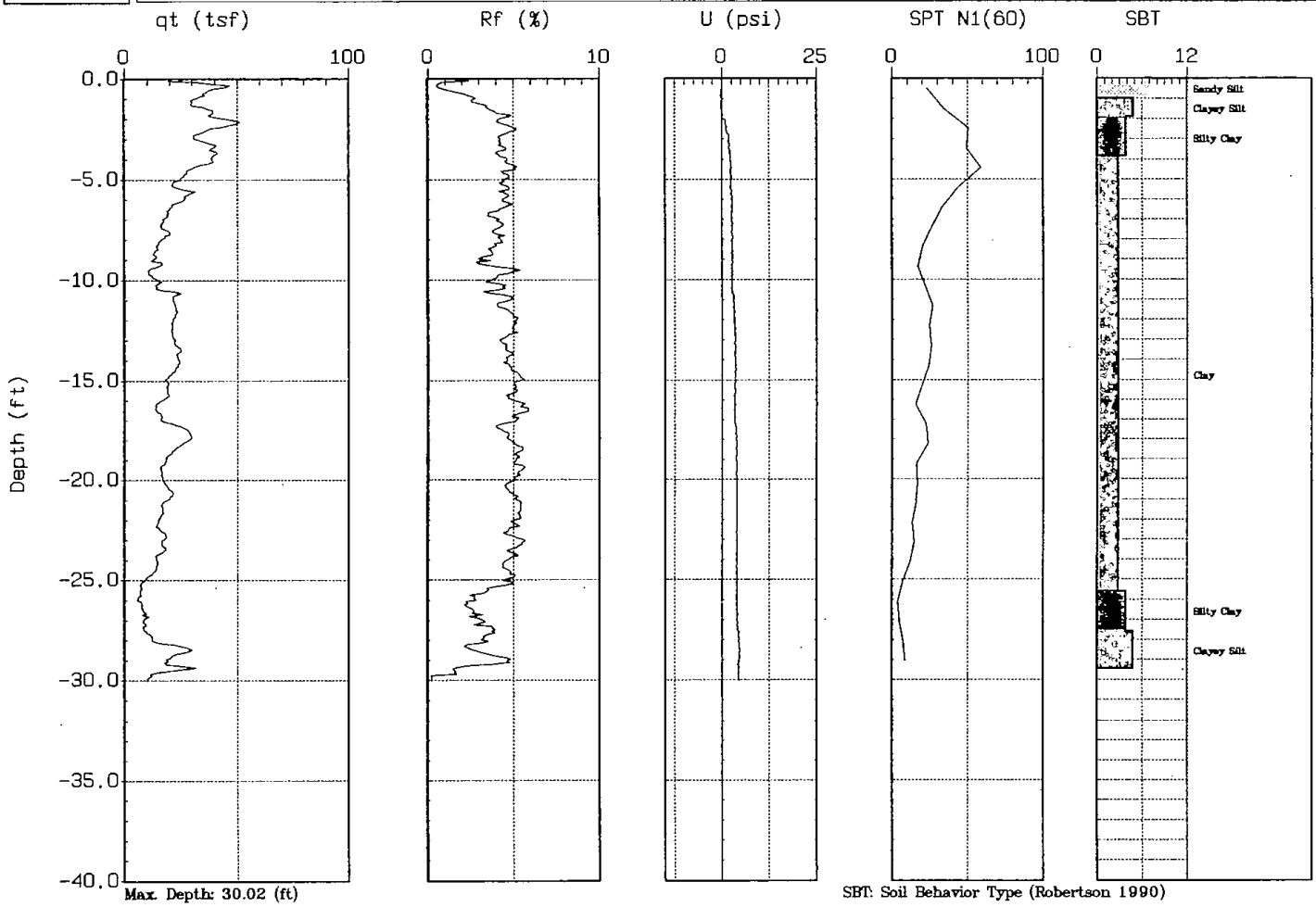
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT H.S.
Location : CPT-10

Engineer : SATHI
Date : 11:23:02 12:19



Max. Depth: 30.02 (ft)

Depth Inc.: 0.082 (ft)

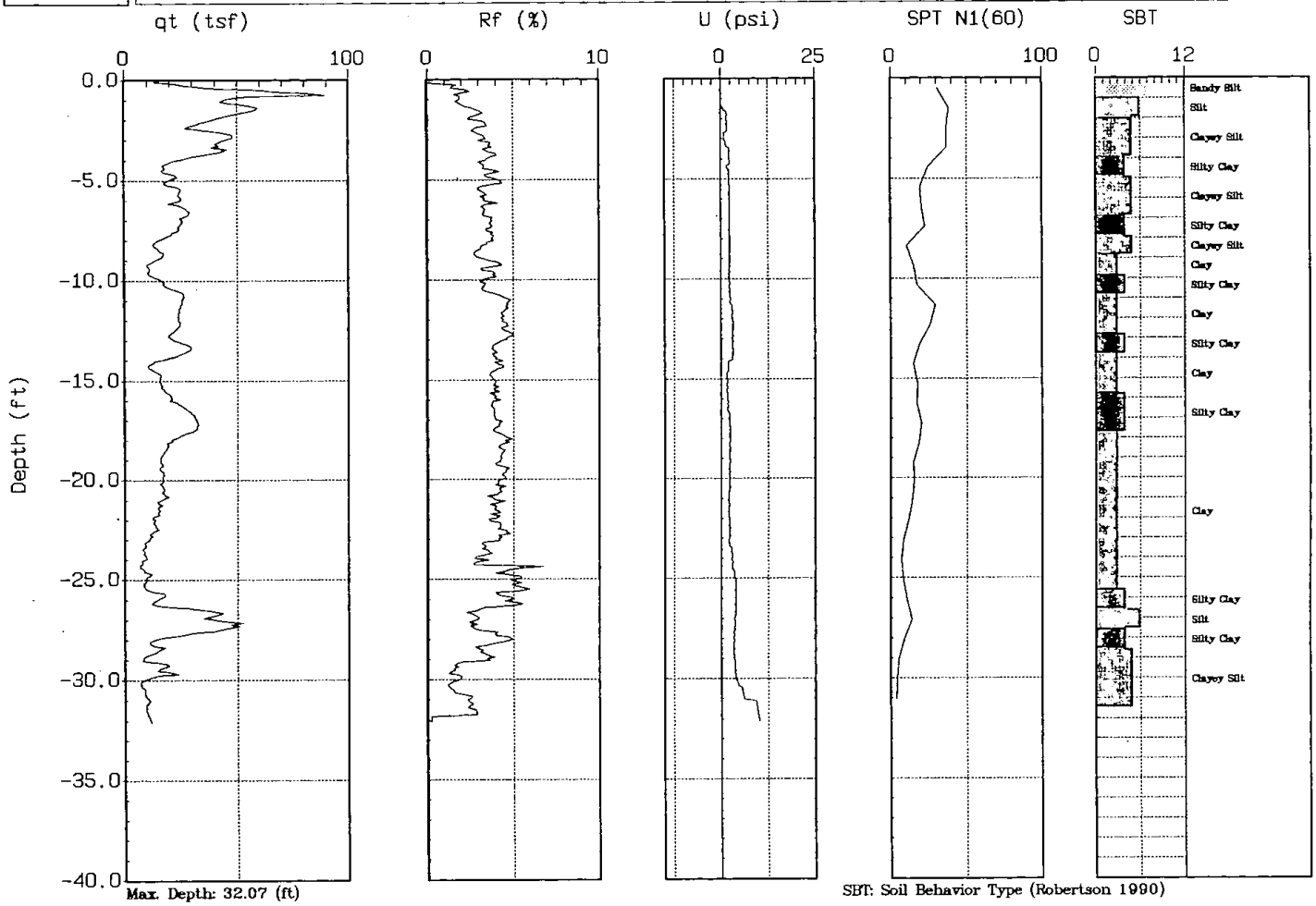
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT H.S.
Location : CPT-11

Engineer : SATHI
Date : 11:23:02 11:29



Max. Depth: 32.07 (ft)

Depth Inc.: 0.082 (ft)

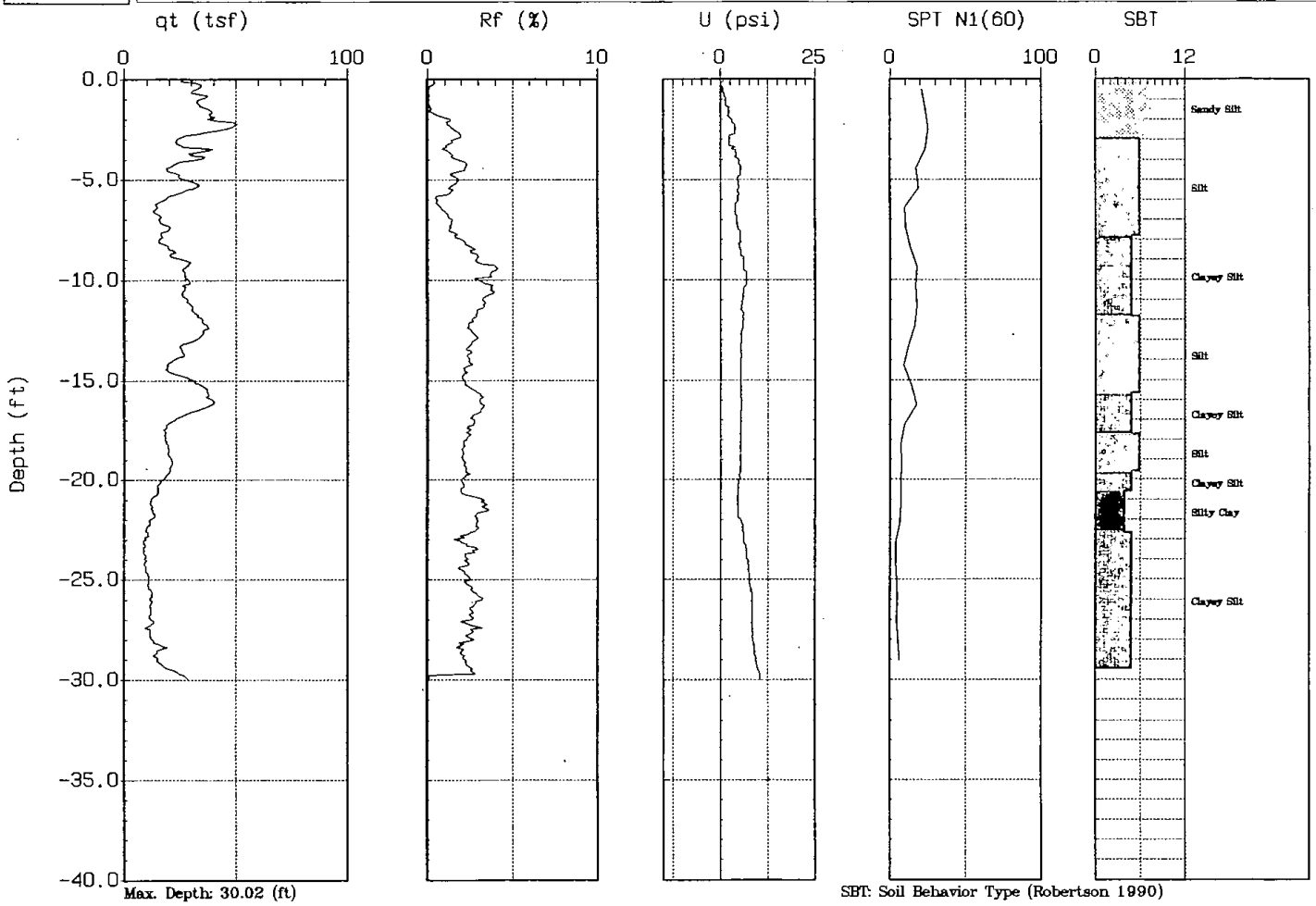
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Site : TAFT H.S.
Location : CPT-12

Engineer : SATHI
Date : 11:23:02 10:31



Max. Depth: 30.02 (ft)

Depth Inc.: 0.082 (ft)

SBT: Soil Behavior Type (Robertson 1990)

3.2 INTERPRETED OUTPUT

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3305
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-07
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 13:15
CPT File: 311C07.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	26.6	1.26	4.73	0.5	3	111.4	0.03	0.03	0.00	2.00	25.5	51.0	2.13	0.00
1.48	25.0	1.37	5.47	0.6	3	111.4	0.08	0.08	0.00	2.00	23.9	47.8	1.99	0.00
2.46	19.1	1.13	5.94	0.5	3	111.4	0.14	0.14	0.00	2.00	18.3	36.6	1.52	0.00
3.44	30.8	1.49	4.83	0.6	3	111.4	0.19	0.19	0.00	2.00	29.5	58.9	2.44	0.00
4.43	38.7	2.26	5.84	1.7	3	111.4	0.25	0.25	0.00	2.00	37.1	74.1	3.08	0.00
5.41	28.1	1.63	5.79	1.7	3	111.4	0.30	0.30	0.00	1.82	26.9	49.0	2.23	0.00
6.40	22.4	1.31	5.88	1.8	3	111.4	0.36	0.36	0.00	1.68	21.4	35.9	1.76	0.00
7.34	12.1	0.75	6.20	1.7	3	111.4	0.41	0.41	0.00	1.56	11.6	18.1	0.93	0.00
8.28	11.2	0.75	6.65	1.6	3	111.4	0.46	0.46	0.00	1.47	10.7	15.8	0.86	0.00
9.27	24.8	1.30	5.25	1.8	3	111.4	0.52	0.52	0.00	1.39	23.7	33.0	1.94	0.00
10.25	25.6	1.67	6.51	2.1	3	111.4	0.57	0.57	0.00	1.32	24.6	32.5	2.01	0.00
11.24	26.1	1.68	6.45	2.2	3	111.4	0.63	0.63	0.00	1.26	25.0	31.6	2.04	0.00
12.22	33.5	2.03	6.06	2.7	3	111.4	0.68	0.68	0.00	1.21	32.1	38.9	2.63	0.00
13.25	23.2	1.47	6.34	3.0	3	111.4	0.74	0.74	0.00	1.16	22.2	25.9	1.80	0.00
14.27	32.0	2.02	6.31	3.7	3	111.4	0.79	0.79	0.00	1.12	30.7	34.4	2.50	0.00
15.26	31.4	2.07	6.60	3.8	3	111.4	0.85	0.85	0.00	1.08	30.1	32.7	2.45	0.00
16.24	42.0	2.83	6.74	4.1	3	111.4	0.90	0.90	0.00	1.05	40.2	42.3	3.29	0.00
17.22	47.1	3.39	7.19	4.8	3	111.4	0.96	0.96	0.00	1.02	45.1	46.1	3.69	0.00
18.21	37.6	2.55	6.77	6.0	3	111.4	1.01	1.01	0.00	0.99	36.0	35.8	2.93	0.00
19.19	25.9	1.55	5.98	6.5	3	111.4	1.07	1.07	0.00	0.97	24.8	24.0	1.99	0.00
20.18	20.1	1.22	6.08	6.7	3	111.4	1.12	1.12	0.00	0.94	19.2	18.1	1.52	0.00
21.16	17.5	1.04	5.90	6.7	3	111.4	1.18	1.18	0.00	0.92	16.8	15.5	1.31	0.00
22.15	13.0	0.80	6.19	6.8	3	111.4	1.23	1.23	0.00	0.90	12.4	11.2	0.94	0.00
23.13	13.3	0.67	5.06	6.7	3	111.4	1.29	1.29	0.00	0.88	12.8	11.2	0.96	0.00
24.11	9.9	0.44	4.42	6.4	3	111.4	1.34	1.34	0.00	0.86	9.5	8.2	0.68	0.00
25.10	11.0	0.46	4.16	6.0	3	111.4	1.40	1.40	0.00	0.85	10.6	8.9	0.77	0.00
26.08	5.7	0.17	2.94	6.0	3	111.4	1.45	1.45	0.00	0.83	5.5	4.5	0.34	0.00
27.07	18.5	0.61	3.31	6.2	5	114.6	1.51	1.51	0.00	0.81	8.9	7.2	1.36	0.00
28.05	8.7	0.45	5.14	6.2	3	111.4	1.56	1.56	0.00	0.80	8.3	6.7	0.57	0.00
29.04	8.4	0.26	3.12	6.5	4	114.6	1.62	1.62	0.00	0.79	5.3	4.2	0.54	0.00
30.02	7.6	0.21	2.69	7.0	4	114.6	1.68	1.68	0.00	0.77	4.9	3.8	0.48	0.00
31.00	6.7	0.18	2.66	7.9	4	114.6	1.73	1.73	0.00	0.76	4.3	3.2	0.40	0.00
31.99	7.7	0.22	2.91	8.3	4	114.6	1.79	1.79	0.00	0.75	4.9	3.7	0.47	0.00
32.97	7.9	0.21	2.61	8.9	4	114.6	1.85	1.85	0.00	0.74	5.0	3.7	0.48	0.00

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3305
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-07
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 13:15
CPT File: 311C07.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	5.0E-08	0.00	970.7	4.73	12	51.0	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
1.48	5.0E-08	0.00	302.5	5.49	11	47.8	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
2.46	5.0E-08	0.00	138.4	5.98	11	36.6	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
3.44	5.0E-08	0.00	159.3	4.86	11	58.9	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
4.43	5.0E-08	0.00	155.8	5.87	11	74.1	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
5.41	5.0E-08	0.00	92.3	5.85	11	50.1	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
6.40	5.0E-08	0.00	61.8	5.97	1	36.7	UnDef	UnDef	100.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
7.34	5.0E-08	0.00	28.5	6.42	1	18.5	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
8.28	5.0E-08	0.00	23.3	6.94	1	16.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
9.27	5.0E-08	0.00	47.0	5.36	6	33.7	134.9	168.7	38.0	UnDef	UnDef	6.0	UnDef	33.0	66.0
10.25	5.0E-08	0.00	43.9	6.66	1	33.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
11.24	5.0E-08	0.00	40.6	6.61	1	32.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
12.22	5.0E-08	0.00	48.3	6.19	1	39.8	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
13.25	5.0E-08	0.00	30.5	6.55	1	26.4	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
14.27	5.0E-08	0.00	39.3	6.47	1	35.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
15.26	5.0E-08	0.00	36.0	6.78	1	33.4	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
16.24	5.0E-08	0.00	45.4	6.89	1	43.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
17.22	5.0E-08	0.00	48.1	7.34	1	47.1	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
18.21	5.0E-08	0.01	36.1	6.96	1	36.5	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-08	0.01	23.2	6.24	1	24.5	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
20.18	5.0E-08	0.01	16.9	6.44	1	18.5	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
21.16	5.0E-08	0.01	13.9	6.33	1	15.8	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
22.15	5.0E-08	0.02	9.5	6.84	1	11.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
23.13	5.0E-08	0.02	9.3	5.61	1	11.5	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
24.11	5.0E-08	0.02	6.4	5.11	1	8.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
25.10	5.0E-08	0.02	6.9	4.77	1	9.1	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
26.08	5.0E-08	0.04	2.9	3.95	1	4.6	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
27.07	5.0E-06	0.01	11.3	3.60	1	14.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
28.05	5.0E-08	0.03	4.6	6.27	1	6.8	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
29.04	5.0E-07	0.03	4.2	3.86	1	6.4	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
30.02	5.0E-07	0.04	3.6	3.45	1	5.8	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
31.00	5.0E-07	0.05	2.9	3.58	1	5.0	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
31.99	5.0E-07	0.04	3.3	3.79	1	5.6	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
32.97	5.0E-07	0.05	3.3	3.41	1	5.7	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3365
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-08
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 12:50
CPT File: 311C08.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	37.0	0.51	1.38	0.0	7	117.8	0.03	0.03	0.00	2.00	11.8	23.6	UnDef	0.00
1.48	43.7	2.03	4.65	0.1	4	114.6	0.09	0.09	0.00	2.00	27.9	55.8	3.49	0.00
2.46	45.1	2.27	5.03	0.4	3	111.4	0.14	0.14	0.00	2.00	43.2	86.4	3.60	0.00
3.44	38.8	1.87	4.82	1.4	3	111.4	0.20	0.20	0.00	2.00	37.1	74.3	3.09	0.00
4.43	47.8	2.20	4.61	2.3	4	114.6	0.25	0.25	0.00	1.99	30.5	60.8	3.80	0.00
5.41	29.1	1.42	4.89	2.3	3	111.4	0.31	0.31	0.00	1.80	27.9	50.3	2.30	0.00
6.40	28.8	1.40	4.86	1.9	3	111.4	0.36	0.36	0.00	1.66	27.6	45.8	2.28	0.00
7.34	16.4	0.85	5.20	0.8	3	111.4	0.42	0.42	0.00	1.55	15.7	24.3	1.28	0.00
8.28	14.1	0.74	5.22	0.8	3	111.4	0.47	0.47	0.00	1.46	13.5	19.7	1.09	0.00
9.27	25.4	1.32	5.22	1.0	3	111.4	0.52	0.52	0.00	1.38	24.3	33.6	1.99	0.00
10.25	22.9	1.32	5.78	1.4	3	111.4	0.58	0.58	0.00	1.32	21.9	28.9	1.79	0.00
11.24	20.3	1.01	4.99	1.5	3	111.4	0.63	0.63	0.00	1.26	19.5	24.5	1.57	0.00
12.22	26.9	1.39	5.17	2.0	3	111.4	0.69	0.69	0.00	1.21	25.7	31.1	2.09	0.00
13.25	28.1	1.53	5.44	2.2	3	111.4	0.74	0.74	0.00	1.16	26.9	31.2	2.19	0.00
14.27	26.5	1.52	5.72	2.3	3	111.4	0.80	0.80	0.00	1.12	25.4	28.4	2.06	0.00
15.26	28.0	1.72	6.14	2.3	3	111.4	0.86	0.86	0.00	1.08	26.8	28.9	2.17	0.00
16.24	27.5	1.69	6.14	2.3	3	111.4	0.91	0.91	0.00	1.05	26.4	27.6	2.13	0.00
17.22	28.0	1.54	5.52	2.4	3	111.4	0.97	0.97	0.00	1.02	26.8	27.3	2.16	0.00
18.21	33.0	1.66	5.04	2.6	3	111.4	1.02	1.02	0.00	0.99	31.6	31.3	2.56	0.00
19.19	25.3	1.56	6.18	2.9	3	111.4	1.08	1.08	0.00	0.96	24.3	23.4	1.94	0.00
20.18	16.9	1.11	6.58	2.9	3	111.4	1.13	1.13	0.00	0.94	16.2	15.2	1.26	0.00
21.16	15.7	0.96	6.12	2.8	3	111.4	1.18	1.18	0.00	0.92	15.1	13.9	1.17	0.00
22.15	17.2	0.87	5.08	2.9	3	111.4	1.24	1.24	0.00	0.90	16.5	14.8	1.28	0.00
23.13	9.5	0.57	6.01	2.8	3	111.4	1.29	1.29	0.00	0.88	9.1	8.0	0.66	0.00
24.11	9.3	0.44	4.75	2.9	3	111.4	1.35	1.35	0.00	0.86	8.9	7.7	0.64	0.00
25.10	10.3	0.35	3.37	3.0	4	114.6	1.40	1.40	0.00	0.84	6.6	5.6	0.71	0.00
26.08	6.5	0.21	3.31	3.2	3	111.4	1.46	1.46	0.00	0.83	6.2	5.1	0.40	0.00
27.07	6.3	0.21	3.34	3.6	3	111.4	1.52	1.52	0.00	0.81	6.0	4.9	0.38	0.00
28.05	8.4	0.29	3.48	3.8	3	111.4	1.57	1.57	0.00	0.80	8.0	6.4	0.54	0.00
29.04	10.6	0.44	4.10	4.3	3	111.4	1.63	1.63	0.00	0.78	10.2	8.0	0.72	0.00

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3365
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-08
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 12:50
CPT File: 311C08.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	5.0E-04	0.00	1000.0	1.38	12	70.8	UnDef	UnDef	0.0	50	88.9	1.0	-0.45	UnDef	UnDef
1.48	5.0E-07	0.00	506.0	4.66	12	83.7	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
2.46	5.0E-08	0.00	317.1	5.04	11	86.4	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
3.44	5.0E-08	0.00	196.3	4.84	11	74.3	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
4.43	5.0E-07	0.00	188.5	4.63	11	91.5	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
5.41	5.0E-08	0.00	93.6	4.94	11	51.3	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
6.40	5.0E-08	0.00	78.5	4.92	11	46.8	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
7.34	5.0E-08	0.00	38.4	5.33	1	24.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
8.28	5.0E-08	0.00	29.1	5.40	1	20.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
9.27	5.0E-08	0.00	47.6	5.33	6	34.4	137.5	171.8	37.6	UnDef	UnDef	6.0	UnDef	33.6	67.3
10.25	5.0E-08	0.00	38.7	5.93	1	29.5	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
11.24	5.0E-08	0.00	31.1	5.15	1	25.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
12.22	5.0E-08	0.00	38.1	5.31	1	31.7	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
13.25	5.0E-08	0.00	36.7	5.59	1	31.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
14.27	5.0E-08	0.00	32.1	5.89	1	29.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
15.26	5.0E-08	0.00	31.7	6.33	1	29.6	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
16.24	5.0E-08	0.00	29.2	6.35	1	28.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
17.22	5.0E-08	0.00	28.0	5.71	1	27.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
18.21	5.0E-08	0.00	31.4	5.20	1	32.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-08	0.00	22.6	6.45	1	23.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
20.18	5.0E-08	0.01	13.9	7.05	1	15.6	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
21.16	5.0E-08	0.01	12.3	6.61	1	14.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
22.15	5.0E-08	0.01	12.9	5.47	1	15.1	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
23.13	5.0E-08	0.01	6.4	6.96	1	8.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
24.11	5.0E-08	0.01	5.9	5.56	1	7.9	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
25.10	5.0E-07	0.01	6.4	3.90	1	8.5	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
26.08	5.0E-08	0.02	3.4	4.27	1	5.2	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
27.07	5.0E-08	0.02	3.1	4.40	1	5.0	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
28.05	5.0E-08	0.02	4.3	4.28	1	6.5	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
29.04	5.0E-08	0.01	5.5	4.84	1	8.2	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3437
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-10
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 12:19
CPT File: 311C10.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	35.9	0.50	1.40	-0.1	7	117.8	0.03	0.03	0.00	2.00	11.5	22.9	UnDef	0.00
1.48	35.7	1.33	3.72	0.0	5	114.6	0.09	0.09	0.00	2.00	17.1	34.2	2.85	0.00
2.46	39.6	1.78	4.49	1.2	4	114.6	0.14	0.14	0.00	2.00	25.3	50.6	3.16	0.00
3.44	38.7	1.65	4.26	2.0	4	114.6	0.20	0.20	0.00	2.00	24.7	49.4	3.08	0.00
4.43	31.0	1.47	4.73	2.3	3	111.4	0.25	0.25	0.00	1.98	29.7	58.9	2.46	0.00
5.41	25.3	1.14	4.50	2.4	3	111.4	0.31	0.31	0.00	1.80	24.2	43.6	2.00	0.00
6.40	21.0	0.88	4.20	2.6	3	111.4	0.36	0.36	0.00	1.66	20.1	33.3	1.65	0.24
7.34	17.7	0.73	4.10	2.6	3	111.4	0.42	0.42	0.00	1.55	17.0	26.3	1.38	0.30
8.28	14.7	0.58	3.92	2.7	3	111.4	0.47	0.47	0.00	1.46	14.1	20.5	1.14	0.19
9.27	13.0	0.50	3.80	2.7	3	111.4	0.52	0.52	0.00	1.38	12.5	17.2	1.00	0.14
10.25	16.7	0.66	3.93	2.6	3	111.4	0.58	0.58	0.00	1.31	16.0	21.0	1.29	0.20
11.24	22.3	1.02	4.56	3.1	3	111.4	0.63	0.63	0.00	1.26	21.3	26.8	1.73	0.32
12.22	21.3	1.07	5.03	3.3	3	111.4	0.69	0.69	0.00	1.21	20.4	24.6	1.65	0.00
13.25	23.1	1.05	4.55	3.4	3	111.4	0.75	0.75	0.00	1.16	22.1	25.6	1.79	0.00
14.27	22.7	1.09	4.81	3.5	3	111.4	0.80	0.80	0.00	1.12	21.7	24.3	1.75	0.00
15.26	19.0	0.97	5.11	3.4	3	111.4	0.86	0.86	0.00	1.08	18.1	19.6	1.45	0.00
16.24	15.3	0.81	5.30	3.3	3	111.4	0.91	0.91	0.00	1.05	14.6	15.3	1.15	0.00
17.22	23.0	1.04	4.53	3.5	3	111.4	0.97	0.97	0.00	1.02	22.0	22.4	1.76	0.00
18.21	24.8	1.25	5.04	3.8	3	111.4	1.02	1.02	0.00	0.99	23.8	23.5	1.91	0.00
19.19	17.2	0.91	5.28	3.8	3	111.4	1.08	1.08	0.00	0.96	16.5	15.9	1.29	0.00
20.18	18.5	0.89	4.79	3.8	3	111.4	1.13	1.13	0.00	0.94	17.7	16.7	1.39	0.00
21.16	17.8	0.94	5.28	3.9	3	111.4	1.19	1.19	0.00	0.92	17.0	15.6	1.33	0.00
22.15	15.4	0.77	5.00	3.9	3	111.4	1.24	1.24	0.00	0.90	14.8	13.3	1.14	0.00
23.13	17.3	0.89	5.12	3.9	3	111.4	1.30	1.30	0.00	0.88	16.6	14.6	1.28	0.00
24.11	14.0	0.65	4.67	3.8	3	111.4	1.35	1.35	0.00	0.86	13.4	11.5	1.01	0.00
25.10	8.4	0.37	4.43	3.9	3	111.4	1.41	1.41	0.00	0.84	8.1	6.8	0.56	0.00
26.08	7.2	0.18	2.52	3.9	4	114.6	1.46	1.46	0.00	0.83	4.6	3.8	0.46	0.00
27.07	8.8	0.28	3.17	4.0	4	114.6	1.52	1.52	0.00	0.81	5.6	4.6	0.58	0.00
28.05	18.3	0.51	2.78	4.4	5	114.6	1.57	1.57	0.00	0.80	8.8	7.0	1.34	0.11
29.04	22.1	0.70	3.16	4.4	5	114.6	1.63	1.63	0.00	0.78	10.6	8.3	1.64	0.14

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3437
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-10
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 12:19
CPT File: 311C10.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	5.0E-04	0.00	1000.0	1.41	12	68.7	UnDef	UnDef	0.0	50	88.0	1.0	-0.45	UnDef	UnDef
1.48	5.0E-06	0.00	413.1	3.73	12	68.3	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
2.46	5.0E-07	0.00	277.1	4.51	11	75.9	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
3.44	5.0E-07	0.00	193.4	4.29	12	74.1	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
4.43	5.0E-08	0.00	120.8	4.77	11	59.4	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
5.41	5.0E-08	0.00	80.8	4.55	11	44.5	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
6.40	5.0E-08	0.00	56.5	4.27	6	34.0	85.6	119.6	31.8	UnDef	UnDef	10.0	UnDef	27.0	60.2
7.34	5.0E-08	0.00	41.5	4.20	6	26.8	107.4	134.2	36.0	UnDef	UnDef	6.0	UnDef	26.3	52.5
8.28	5.0E-08	0.01	30.3	4.05	6	21.0	84.0	105.0	40.5	UnDef	UnDef	6.0	UnDef	20.5	41.1
9.27	5.0E-08	0.01	23.9	3.96	6	17.6	70.5	88.1	44.4	UnDef	UnDef	6.0	UnDef	17.2	34.5
10.25	5.0E-08	0.01	27.9	4.07	6	21.5	85.9	107.4	42.0	UnDef	UnDef	6.0	UnDef	21.0	42.0
11.24	5.0E-08	0.00	34.1	4.70	6	27.4	109.5	136.9	40.8	UnDef	UnDef	6.0	UnDef	26.8	53.6
12.22	5.0E-08	0.00	29.9	5.20	1	25.1	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
13.25	5.0E-08	0.00	30.0	4.71	1	26.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
14.27	5.0E-08	0.00	27.3	4.99	1	24.8	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
15.26	5.0E-08	0.01	21.1	5.35	1	20.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
16.24	5.0E-08	0.01	15.7	5.64	1	15.6	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
17.22	5.0E-08	0.00	22.7	4.73	1	22.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
18.21	5.0E-08	0.01	23.3	5.26	1	24.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-08	0.01	15.0	5.63	1	16.2	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
20.18	5.0E-08	0.01	15.4	5.11	1	17.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
21.16	5.0E-08	0.01	14.0	5.66	1	16.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
22.15	5.0E-08	0.01	11.4	5.43	1	13.6	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
23.13	5.0E-08	0.01	12.4	5.53	1	14.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
24.11	5.0E-08	0.01	9.4	5.17	1	11.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
25.10	5.0E-08	0.02	5.0	5.32	1	7.0	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
26.08	5.0E-07	0.02	3.9	3.17	1	5.8	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
27.07	5.0E-07	0.02	4.8	3.82	1	7.0	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
28.05	5.0E-06	0.01	10.6	3.04	4	14.3	57.1	71.4	57.0	UnDef	UnDef	3.0	UnDef	7.0	14.0
29.04	5.0E-06	0.01	12.6	3.41	4	17.0	67.8	84.8	55.1	UnDef	UnDef	6.0	UnDef	8.3	16.6

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3503
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-11
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 11:29
CPT File: 311C11.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60	(N1)60 (blows/ft)	Su (tsf)	CRR
0.49	48.2	0.85	1.77	0.0	7	117.8	0.03	0.03	0.00	2.00	15.4	30.8	UnDef	0.00
1.48	49.9	1.25	2.50	0.8	6	114.6	0.09	0.09	0.00	2.00	19.1	38.2	3.99	0.00
2.46	38.4	1.20	3.11	1.3	5	114.6	0.14	0.14	0.00	2.00	18.4	36.8	3.06	0.00
3.44	38.6	1.37	3.55	1.8	5	114.6	0.20	0.20	0.00	2.00	18.5	36.9	3.07	0.00
4.43	19.5	0.67	3.46	2.1	4	114.6	0.26	0.26	0.00	1.98	12.5	24.7	1.54	0.13
5.41	22.4	0.77	3.41	2.2	5	114.6	0.31	0.31	0.00	1.79	10.7	19.2	1.77	0.15
6.40	25.7	0.87	3.37	2.3	5	114.6	0.37	0.37	0.00	1.65	12.3	20.3	2.03	0.16
7.34	23.2	0.85	3.66	2.2	4	114.6	0.42	0.42	0.00	1.54	14.8	22.8	1.83	0.20
8.28	15.2	0.49	3.21	2.3	4	114.6	0.48	0.48	0.00	1.45	9.7	14.0	1.18	0.20
9.27	11.7	0.42	3.60	2.2	3	111.4	0.53	0.53	0.00	1.37	11.2	15.3	0.89	0.12
10.25	19.8	0.68	3.45	2.2	4	114.6	0.59	0.59	0.00	1.30	12.6	16.5	1.53	0.27
11.24	24.8	1.13	4.54	2.6	3	111.4	0.64	0.64	0.00	1.25	23.8	29.6	1.93	0.40
12.22	23.0	1.04	4.51	3.0	3	111.4	0.70	0.70	0.00	1.20	22.0	26.4	1.78	0.31
13.25	25.2	1.02	4.06	3.0	4	114.6	0.76	0.76	0.00	1.15	16.1	18.5	1.95	0.34
14.27	13.8	0.55	3.97	2.1	3	111.4	0.81	0.81	0.00	1.11	13.2	14.6	1.04	0.00
15.26	16.9	0.66	3.88	1.6	3	111.4	0.87	0.87	0.00	1.07	16.2	17.4	1.29	0.00
16.24	25.2	0.97	3.85	1.8	4	114.6	0.92	0.92	0.00	1.04	16.1	16.8	1.94	0.28
17.22	30.8	1.24	4.03	2.2	4	114.6	0.98	0.98	0.00	1.01	19.6	19.8	2.38	0.41
18.21	19.5	0.87	4.44	2.2	3	111.4	1.04	1.04	0.00	0.98	18.7	18.4	1.48	0.00
19.19	16.1	0.69	4.31	2.2	3	111.4	1.09	1.09	0.00	0.96	15.4	14.8	1.20	0.00
20.18	16.7	0.71	4.24	2.1	3	111.4	1.15	1.15	0.00	0.93	16.0	15.0	1.25	0.00
21.16	15.9	0.62	3.92	1.9	3	111.4	1.20	1.20	0.00	0.91	15.2	13.9	1.17	0.00
22.15	13.3	0.54	4.08	2.1	3	111.4	1.26	1.26	0.00	0.89	12.7	11.4	0.96	0.00
23.13	9.7	0.37	3.78	2.2	3	111.4	1.31	1.31	0.00	0.87	9.2	8.1	0.67	0.00
24.11	8.1	0.31	3.78	2.8	3	111.4	1.37	1.37	0.00	0.86	7.8	6.7	0.54	0.00
25.10	9.8	0.50	5.08	3.6	3	111.4	1.42	1.42	0.00	0.84	9.4	7.9	0.67	0.00
26.08	19.9	0.78	3.94	3.7	4	114.6	1.48	1.48	0.00	0.82	12.7	10.5	1.47	0.00
27.07	43.5	1.16	2.67	3.6	6	114.6	1.53	1.53	0.00	0.81	16.7	13.5	3.36	0.00
28.05	17.0	0.66	3.86	3.3	4	114.6	1.59	1.59	0.00	0.79	10.9	8.6	1.23	0.00
29.04	13.1	0.30	2.31	3.4	5	114.6	1.64	1.64	0.00	0.78	6.3	4.9	0.92	0.09
30.02	11.1	0.16	1.47	4.2	5	114.6	1.70	1.70	0.00	0.77	5.3	4.1	0.75	0.09
31.00	9.6	0.22	2.30	7.5	5	114.6	1.76	1.76	0.00	0.75	4.6	3.5	0.62	0.00

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3503
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-11
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 11:29
CPT File: 311C11.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	5.0E-04	0.00	1000.0	1.78	12	92.3	UnDef	UnDef	0.0	50	95.0	1.0	-0.49	UnDef	UnDef
1.48	5.0E-05	0.00	578.5	2.50	12	95.6	UnDef	UnDef	0.0	50	81.9	10.0	-0.50	UnDef	UnDef
2.46	5.0E-06	0.00	268.7	3.12	12	73.6	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
3.44	5.0E-06	0.00	192.9	3.57	12	73.9	UnDef	UnDef	0.0	UnDef	UnDef	10.0	UnDef	UnDef	UnDef
4.43	5.0E-07	0.00	75.4	3.50	7	37.4	45.0	82.4	25.5	UnDef	UnDef	10.0	UnDef	12.8	37.5
5.41	5.0E-06	0.00	70.9	3.46	6	39.3	50.4	89.7	26.0	UnDef	UnDef	10.0	UnDef	10.4	29.6
6.40	5.0E-06	0.00	68.8	3.42	6	41.5	54.4	95.9	26.3	UnDef	UnDef	10.0	UnDef	11.2	31.5
7.34	5.0E-07	0.00	54.1	3.73	6	35.0	74.5	109.5	30.5	UnDef	UnDef	10.0	UnDef	16.9	39.8
8.28	5.0E-07	0.00	30.9	3.32	6	21.5	86.1	107.7	37.2	UnDef	UnDef	6.0	UnDef	14.0	28.1
9.27	5.0E-08	0.01	21.0	3.77	6	15.7	62.7	78.4	46.0	UnDef	UnDef	6.0	UnDef	15.3	30.7
10.25	5.0E-07	0.00	32.6	3.56	6	25.2	100.9	126.1	37.3	UnDef	UnDef	6.0	UnDef	16.5	32.9
11.24	5.0E-08	0.00	37.6	4.66	6	30.3	121.1	151.4	39.2	UnDef	UnDef	6.0	UnDef	29.6	59.3
12.22	5.0E-08	0.00	32.0	4.65	6	27.0	107.8	134.8	41.8	UnDef	UnDef	6.0	UnDef	26.4	52.8
13.25	5.0E-07	0.00	32.3	4.19	6	28.3	113.2	141.6	39.9	UnDef	UnDef	6.0	UnDef	18.5	36.9
14.27	5.0E-08	0.01	15.9	4.22	1	15.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
15.26	5.0E-08	0.00	18.5	4.09	1	17.8	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
16.24	5.0E-07	0.00	26.3	3.99	6	25.7	102.7	128.4	42.7	UnDef	UnDef	6.0	UnDef	16.8	33.5
17.22	5.0E-07	0.00	30.4	4.17	6	30.4	121.7	152.1	40.9	UnDef	UnDef	6.0	UnDef	19.8	39.7
18.21	5.0E-08	0.00	17.8	4.69	1	18.8	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-08	0.00	13.7	4.62	1	15.1	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
20.18	5.0E-08	0.00	13.6	4.55	1	15.3	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
21.16	5.0E-08	0.00	12.2	4.24	1	14.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
22.15	5.0E-08	0.01	9.6	4.51	1	11.6	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
23.13	5.0E-08	0.01	6.4	4.38	1	8.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
24.11	5.0E-08	0.01	4.9	4.54	1	6.8	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
25.10	5.0E-08	0.01	5.9	5.94	1	8.1	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
26.08	5.0E-07	0.01	12.5	4.25	1	16.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
27.07	5.0E-05	0.00	27.4	2.76	6	34.4	137.6	172.0	36.6	36	36.7	6.0	-0.16	13.5	26.9
28.05	5.0E-07	0.01	9.7	4.25	1	13.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
29.04	5.0E-06	0.01	7.0	2.64	4	10.0	40.1	50.1	65.3	UnDef	UnDef	3.0	UnDef	4.9	9.8
30.02	5.0E-06	0.01	5.5	1.74	4	8.3	33.3	41.6	65.1	UnDef	UnDef	1.5	UnDef	4.1	8.1
31.00	5.0E-06	0.03	4.4	2.82	1	7.1	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3569
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-12
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 10:31
CPT File: 311C12.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	32.8	0.05	0.15	0.7	7	117.8	0.03	0.03	0.00	2.00	10.5	20.9	UnDef	0.10
1.48	36.5	0.13	0.36	1.9	7	117.8	0.09	0.09	0.00	2.00	11.7	23.3	UnDef	0.11
2.46	39.4	0.58	1.48	3.2	7	117.8	0.14	0.14	0.00	2.00	12.6	25.2	UnDef	0.13
3.44	30.3	0.38	1.25	3.3	6	114.6	0.20	0.20	0.00	2.00	11.6	23.2	2.40	0.11
4.43	22.9	0.43	1.90	4.9	6	114.6	0.26	0.26	0.00	1.97	8.8	17.2	1.81	0.11
5.41	27.4	0.37	1.34	4.6	6	114.6	0.31	0.31	0.00	1.78	10.5	18.7	2.17	0.10
6.40	15.0	0.12	0.83	4.0	6	114.6	0.37	0.37	0.00	1.64	5.7	9.4	1.17	0.09
7.34	17.5	0.25	1.40	4.5	6	114.6	0.43	0.43	0.00	1.53	6.7	10.3	1.37	0.09
8.28	18.8	0.45	2.41	5.0	5	114.6	0.48	0.48	0.00	1.44	9.0	13.0	1.46	0.13
9.27	26.8	0.94	3.49	6.1	5	114.6	0.54	0.54	0.00	1.37	12.9	17.6	2.10	0.24
10.25	27.3	0.96	3.52	6.3	5	114.6	0.59	0.59	0.00	1.30	13.1	17.0	2.13	0.29
11.24	29.6	0.93	3.15	5.6	5	114.6	0.65	0.65	0.00	1.24	14.2	17.6	2.32	0.24
12.22	35.4	0.91	2.56	5.6	6	114.6	0.70	0.70	0.00	1.19	13.6	16.2	2.78	0.17
13.25	28.0	0.72	2.57	5.3	6	114.6	0.76	0.76	0.00	1.14	10.7	12.3	2.18	0.20
14.27	20.9	0.48	2.30	5.2	6	114.6	0.82	0.82	0.00	1.10	8.0	8.8	1.61	0.21
15.26	34.3	0.86	2.51	5.2	6	114.6	0.88	0.88	0.00	1.07	13.1	14.0	2.67	0.21
16.24	35.2	1.09	3.11	5.3	5	114.6	0.94	0.94	0.00	1.03	16.9	17.4	2.74	0.43
17.22	19.9	0.51	2.54	5.2	5	114.6	0.99	0.99	0.00	1.00	9.5	9.6	1.51	0.17
18.21	18.9	0.40	2.13	5.1	6	114.6	1.05	1.05	0.00	0.98	7.3	7.1	1.43	0.15
19.19	20.4	0.44	2.16	5.1	6	114.6	1.10	1.10	0.00	0.95	7.8	7.4	1.54	0.16
20.18	15.9	0.32	2.05	4.6	5	114.6	1.16	1.16	0.00	0.93	7.6	7.1	1.18	0.11
21.16	12.3	0.38	3.12	4.4	4	114.6	1.22	1.22	0.00	0.91	7.8	7.1	0.88	0.00
22.15	11.2	0.32	2.84	5.3	4	114.6	1.27	1.27	0.00	0.89	7.1	6.3	0.79	0.00
23.13	9.0	0.21	2.28	6.2	5	114.6	1.33	1.33	0.00	0.87	4.3	3.7	0.62	0.09
24.11	9.2	0.20	2.17	7.0	5	114.6	1.39	1.39	0.00	0.85	4.4	3.7	0.63	0.09
25.10	10.8	0.26	2.42	7.6	5	114.6	1.44	1.44	0.00	0.83	5.2	4.3	0.75	0.09
26.08	11.8	0.33	2.81	8.1	5	114.6	1.50	1.50	0.00	0.82	5.6	4.6	0.82	0.00
27.07	11.5	0.29	2.53	8.2	5	114.6	1.56	1.56	0.00	0.80	5.5	4.4	0.79	0.09
28.05	13.8	0.30	2.17	8.5	5	114.6	1.61	1.61	0.00	0.79	6.6	5.2	0.98	0.09
29.04	16.2	0.37	2.27	9.2	5	114.6	1.67	1.67	0.00	0.77	7.8	6.0	1.16	0.10

Gregg In Situ, Inc.
Interpretation Output - Release 1.00.19g
Run No: 02-1125-2215-3569
Job No: 97-100
Client: MACTEC
Project: CPT SITE INVESTIGATION
Site: TAFT H.S.
Location: CPT-12
Engineer: SATHI
CPT Date: 02/23/11
CPT Time: 10:31
CPT File: 311C12.COR
Northing (m): 0.000
Easting (m): 0.000
Elevation (m): 0.000

Water Table (m): 15.24 (ft): 50.0
Su Nkt used: 12.50
Averaging Increment (m): 0.30
Phi Method : Robertson and Campanella, 1983
Dr Method : Jamiolkowski - All Sands
State Parameter M: 1.20
Used Unit Weights Assigned to Soil Zones
Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
0.49	5.0E-04	0.00	1000.0	0.15	10	62.8	0.0	62.8	0.0	50	85.5	1.0	-0.22	0.0	20.9
1.48	5.0E-04	0.00	419.0	0.36	10	69.9	0.0	69.9	0.0	48	72.8	1.0	-0.23	0.0	23.3
2.46	5.0E-04	0.00	271.2	1.49	9	75.5	3.8	79.4	6.8	46	67.7	1.0	-0.33	0.8	26.0
3.44	5.0E-05	0.00	148.8	1.26	9	58.0	7.4	65.4	9.3	44	55.3	10.0	-0.25	1.8	25.0
4.43	5.0E-05	0.01	87.5	1.92	7	43.8	21.1	64.9	17.2	42	43.8	10.0	-0.24	4.4	21.6
5.41	5.0E-05	0.01	86.0	1.36	9	47.8	15.7	63.5	14.2	42	46.1	10.0	-0.20	3.4	22.1
6.40	5.0E-05	0.01	39.3	0.85	7	24.0	14.3	38.3	19.0	38	30.0	6.0	-0.08	2.9	12.3
7.34	5.0E-05	0.01	40.3	1.44	7	26.3	24.9	51.3	23.2	38	30.0	6.0	-0.13	4.5	14.8
8.28	5.0E-06	0.01	38.1	2.48	7	26.5	53.1	79.6	30.0	UnDef	UnDef	6.0	UnDef	9.3	22.3
9.27	5.0E-06	0.01	49.1	3.56	6	35.9	83.0	118.9	31.2	UnDef	UnDef	6.0	UnDef	13.6	31.2
10.25	5.0E-06	0.01	45.0	3.60	6	34.7	96.0	130.7	32.5	UnDef	UnDef	6.0	UnDef	14.4	31.4
11.24	5.0E-06	0.01	44.7	3.22	6	36.0	82.8	118.8	31.1	UnDef	UnDef	6.0	UnDef	13.6	31.2
12.22	5.0E-05	0.01	49.3	2.61	7	41.3	59.3	100.6	27.1	38	41.9	6.0	-0.22	9.4	25.6
13.25	5.0E-05	0.01	35.7	2.64	6	31.3	78.6	110.0	31.8	38	34.0	6.0	-0.19	9.9	22.2
14.27	5.0E-05	0.01	24.4	2.40	6	22.6	90.3	112.9	36.6	34	30.0	6.0	-0.13	8.8	17.7
15.26	5.0E-05	0.00	38.1	2.57	6	35.8	76.3	112.1	30.5	38	37.9	6.0	-0.19	10.4	24.4
16.24	5.0E-06	0.00	36.6	3.19	6	35.6	120.6	156.2	33.9	UnDef	UnDef	6.0	UnDef	16.3	33.7
17.22	5.0E-06	0.01	19.1	2.67	6	19.6	78.2	97.8	42.6	UnDef	UnDef	6.0	UnDef	9.6	19.1
18.21	5.0E-05	0.01	17.1	2.26	6	18.1	72.4	90.6	42.4	32	30.0	6.0	-0.08	7.1	14.2
19.19	5.0E-05	0.01	17.5	2.28	6	19.0	75.9	94.9	42.1	32	30.0	6.0	-0.09	7.4	14.9
20.18	5.0E-06	0.01	12.7	2.21	6	14.4	57.7	72.1	48.2	UnDef	UnDef	6.0	UnDef	7.1	14.1
21.16	5.0E-07	0.01	9.1	3.46	1	10.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
22.15	5.0E-07	0.02	7.8	3.20	1	9.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
23.13	5.0E-06	0.03	5.8	2.67	4	7.7	30.6	38.3	70.6	UnDef	UnDef	1.5	UnDef	3.7	7.5
24.11	5.0E-06	0.03	5.6	2.55	4	7.7	30.6	38.3	70.6	UnDef	UnDef	1.5	UnDef	3.7	7.5
25.10	5.0E-06	0.03	6.5	2.79	4	8.8	35.4	44.2	68.0	UnDef	UnDef	3.0	UnDef	4.3	8.7
26.08	5.0E-06	0.02	6.9	3.22	1	9.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
27.07	5.0E-06	0.03	6.4	2.93	4	9.0	36.0	45.0	69.5	UnDef	UnDef	3.0	UnDef	4.4	8.8
28.05	5.0E-06	0.02	7.6	2.46	4	10.7	42.6	53.3	61.9	UnDef	UnDef	3.0	UnDef	5.2	10.4
29.04	5.0E-06	0.02	8.7	2.53	4	12.3	49.1	61.3	58.9	UnDef	UnDef	3.0	UnDef	6.0	12.0

GREGG IN SITU, INC.
December 2, 2002
02-311sh

LAW CRANDALL
Taft High School
Woodland Hills, Ca.

We hope the information presented is sufficient for your purposes. We recommend that all data be carefully reviewed by qualified personnel to verify the data and make appropriate recommendations. If you have any questions, please do not hesitate to contact our office at (562) 427-6899.

Sincerely,
GREGG IN SITU, INC.

Brian Savela
Operations Manager

APPENDIX

ELECTRICAL PIEZOCONE

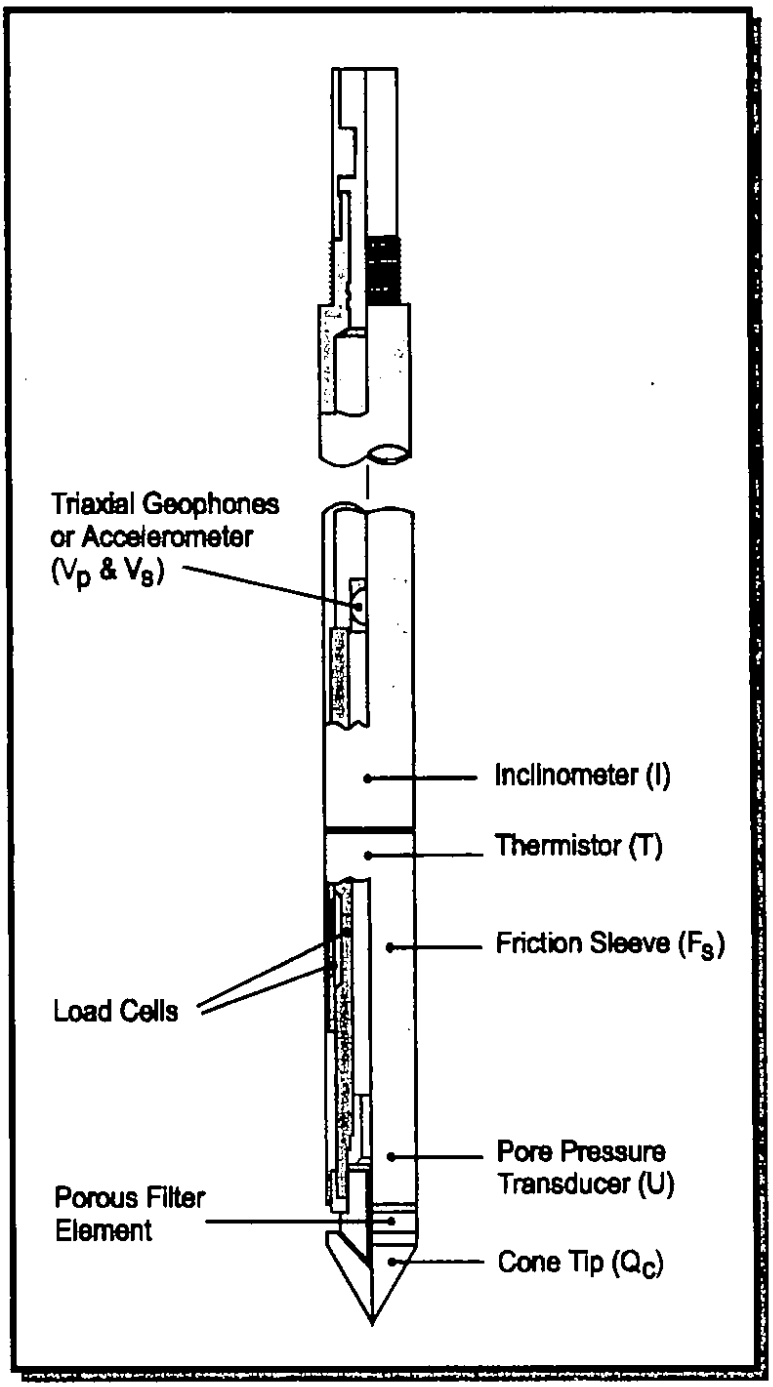
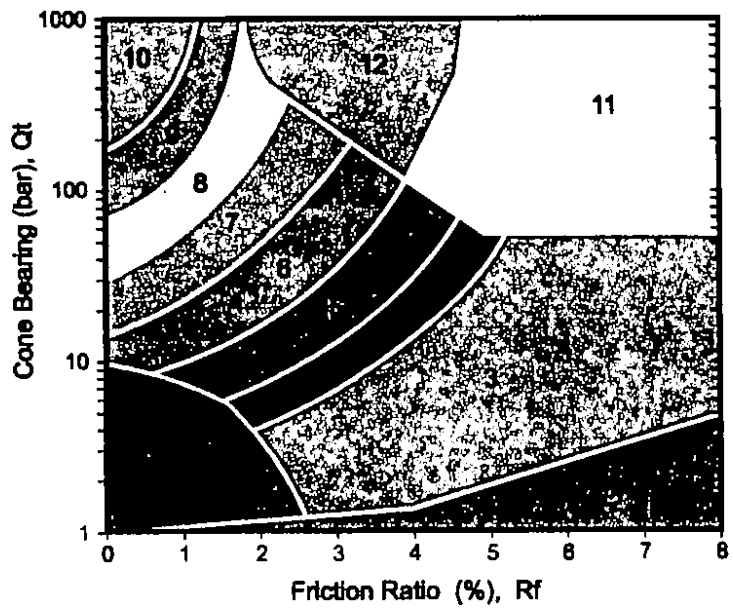


Figure 1

SOIL CLASSIFICATION CHART



Zone	Q_t / N	Soil Behaviour Type
1	2	sensitive fine grained
2	1	organic material
3	1	clay
4	1.5	silty clay to clay
5	2	clayey silt to silty clay
6	2.5	sandy silt to clayey silt
7	3	silty sand to sandy silt
8	4	sand to silty sand
9	5	sand
10	6	gravelly sand to sand
11	1	very stiff fine grained *
12	2	sand to clayey sand *

* overconsolidated or cemented

After Robertson and Campenella

Figure 2

70144 20280
Pretty Intercom

REFERENCES

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Robertson, P.K., Campanella, R.G., Gillespie, D. and Rice, A., 1986, "Seismic CPT to Measure In Situ Shear Wave Velocity", Journal of Geotechnical Engineering, ASCE, Vol. 112, No. 8, pp. 791-803.

Gregg In Situ CPT Interpretations as of January 7, 1999 (Release 1.00.19)

Gregg In Situ's interpretation routine should be considered a calculator of current published CPT correlations and is subject to change to reflect the current state of practice. The interpreted values are not considered valid for all soil types. The interpretations are presented only as a guide for geotechnical use and should be carefully scrutinized for consideration in any geotechnical design. Reference to current literature is strongly recommended.

The CPT interpretations are based on values of tip, sleeve friction and pore pressure averaged over a user specified interval (typically 0.25m). Note that Qt is the recorded tip value, Qc, corrected for pore pressure effects. Since all Gregg In Situ cones have equal end area friction sleeves, pore pressure corrections to sleeve friction, Fs, are not required.

The tip correction is: $Qt = Qc + (1-a) \bullet Ud$

where: *Qt* is the corrected tip load
Qc is the recorded tip load
Ud is the recorded dynamic pore pressure
a is the Net Area Ratio for the cone (typically 0.85 for Gregg In Situ cones)

Effective vertical overburden stresses are calculated based on a hydrostatic distribution of equilibrium pore pressures below the water table or from a user defined equilibrium pore pressure profile (this can be obtained from CPT dissipation tests). The stress calculations use unit weights assigned to the Soil Behavior Type zones or from a user defined unit weight profile.

Details regarding the interpretation methods for all of the interpreted parameters is given in table 1. The appropriate references referred to in table 1 are listed in table 2.

The estimated Soil Behavior Type is based on the charts developed by Robertson and Campanella shown in figure 1.

Table 1 CPT Interpretation Methods

Interpreted Parameter	Description	Equation	Ref
Depth	mid layer depth		
AvgQt	Averaged corrected tip (Qt)	$AvgQt = \frac{1}{n}\sum_{i=1}^{n} Qt_i$	
AvgFs	Averaged sleeve friction (Fs)	$AvgFs = \frac{1}{n}\sum_{i=1}^{n} Fs_i$	
AvgRf	Averaged friction ratio (Rf)	$AvgRf = 100\% \bullet \frac{AvgFs}{AvgQt}$	
AvgUd	Averaged dynamic pore pressure (Ud)	$AvgUd = \frac{1}{n}\sum_{i=1}^{n} Ud_i$	
SBT	Soil Behavior Type as defined by Robertson and Campanella		1

U.Wt.	Unit Weight of soil determined from: 1) uniform value or 2) value assigned to each SBT zone 3) user supplied unit weight profile		
TStress	Total vertical overburden stress at mid layer depth	$TStress = \sum_{i=1}^{n} \gamma_i h_i$ where γ_i is layer unit weight h_i is layer thickness	
EStress	Effective vertical overburden stress at mid layer depth	$EStress = TStress - Ueq$	
Ueq	Equilibrium pore pressure determined from: 1) hydrostatic from water table depth 2) user supplied profile		
Cn	SPT N_{60} overburden correction factor	$Cn=(\sigma_v')^{-0.5}$ where σ_v' is in tsf $0.5 < C_n < 2.0$	
N_{60}	SPT N value at 60% energy calculated from Qt/N ratios assigned to each SBT zone		3
$(N1)_{60}$	SPT N_{60} value corrected for overburden pressure	$N1_{60} = Cn \bullet N_{60}$	3
$\Delta(N1)_{60}$	Equivalent Clean Sand Correction to $(N1)_{60}$	$\Delta(N1)_{60} = \frac{K_{SPT}}{1 - K_{SPT}} \bullet (N1)_{60}$ Where: K_{SPT} is defined as: 0.0 for FC < 5% 0.0167 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35% FC - Fines Content in %	7
$(N1)_{60cs}$	Equivalent Clean Sand $(N1)_{60}$	$(N1)_{60cs} = (N1)_{60} + \Delta(N1)_{60}$	7
Su	Undrained shear strength - Nkt is use selectable	$Su = \frac{Qt - \sigma_v}{N_{kt}}$	2
k	Coefficient of permeability (assigned to each SBT zone)		6
Bq	Pore pressure parameter	$Bq = \frac{\Delta u}{Qt - \sigma_v}$	2
Qtn	Normalized Qt for Soil Behavior Type classification as defined by Robertson, 1990	$Qtn = \frac{Qt - \sigma_v}{\sigma'_v}$	4
Rfn	Normalized Rf for Soil Behavior Type classification as defined by Robertson, 1990	$Rfn = 100\% \bullet \frac{f_s}{Qt - \sigma_v}$	4
SBTn	Normalized Soil Behavior Type (slightly modified from that published by Robertson, 1990. This version includes all the soil zones of the original non-normalized SBT chart - see figure 1)		4
Qc1	Normalized Qt for seismic analysis	$qc1 = qc \bullet (Pa/\sigma_v')^{0.5}$ where: Pa = atm. pressure	5
Qc1N	Dimensionless Normalized Qt1	qc1N = qc1 / Pa where: Pa = atm. pressure	

ΔQc1N1	Equivalent clean sand correction	$\Delta qc1N = \frac{K_{CPT}}{1 - K_{CPT}} \bullet qc1N$ Where: K_{CPT} is defined as: 0.0 for FC < 5% 0.0267 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35% FC - Fines Content in %	5
Qc1Ncs	Clean Sand equivalent Qc1N	$qc1Ncs = qc1N + \Delta qc1N$	5
Ic	Soil index for estimating grain characteristics	$Ic = [(3.47 - \log Q)^2 + (\log F + 1.22)^2]^{0.5}$	5
FC	Fines content (%)	$FC=1.75(Ic^{3.25}) - 3.7$ $FC=100$ for $Ic > 3.5$ $FC=0$ for $Ic < 1.26$ $FC = 5\%$ if $1.64 < Ic < 2.6$ AND $Rfn<0.5$	8
PHI	Friction Angle	Campanella and Robertson Durunoglu and Mitchel Janbu	1
Dr	Relative Density	Ticino Sand Hokksund Sand Schmertmann 1976 Jamiolkowski - All Sands	1
OCR	Over Consolidation Ratio		1
State Parameter			9
CRR	Cyclic Resistance Ratio		7

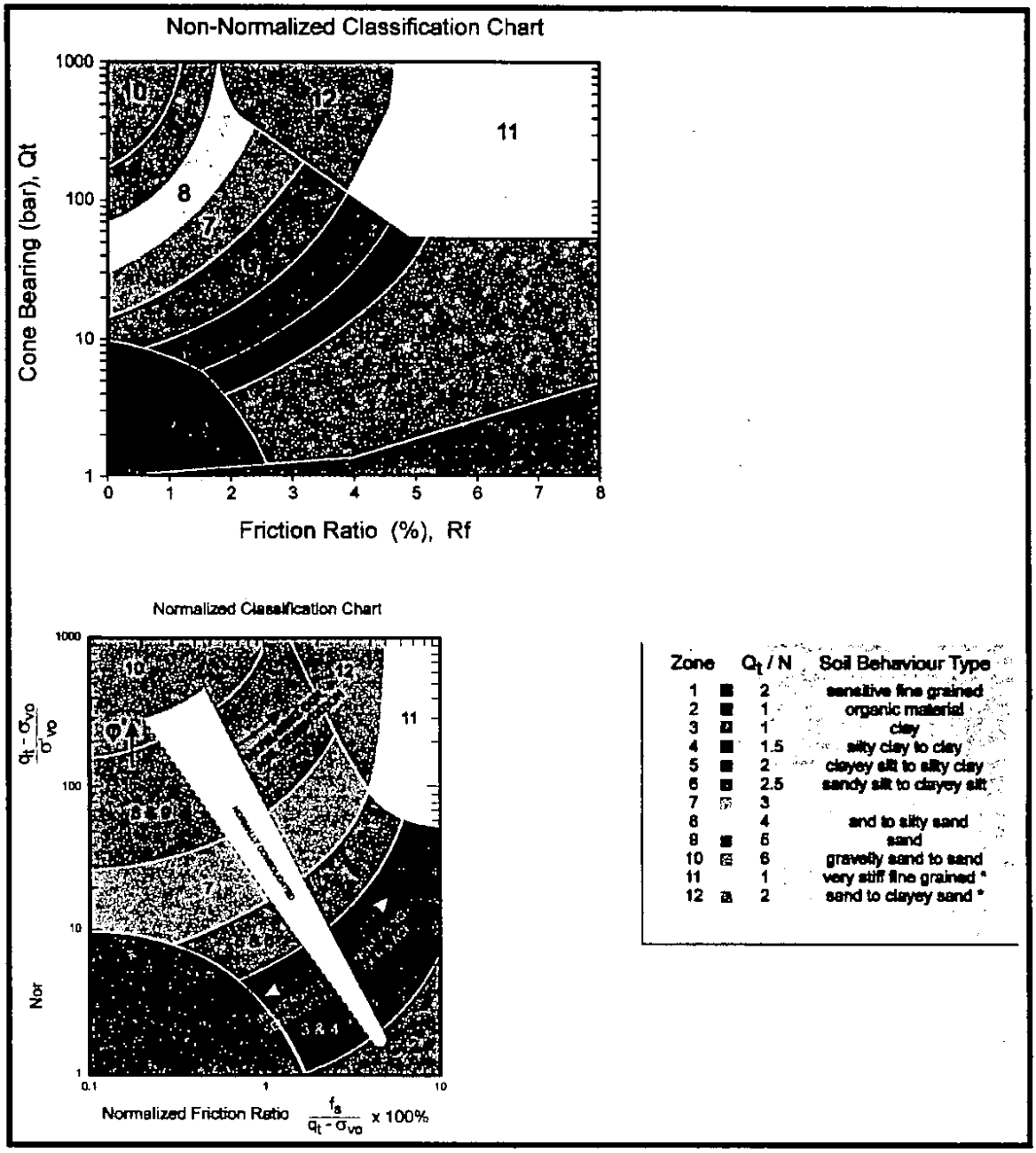
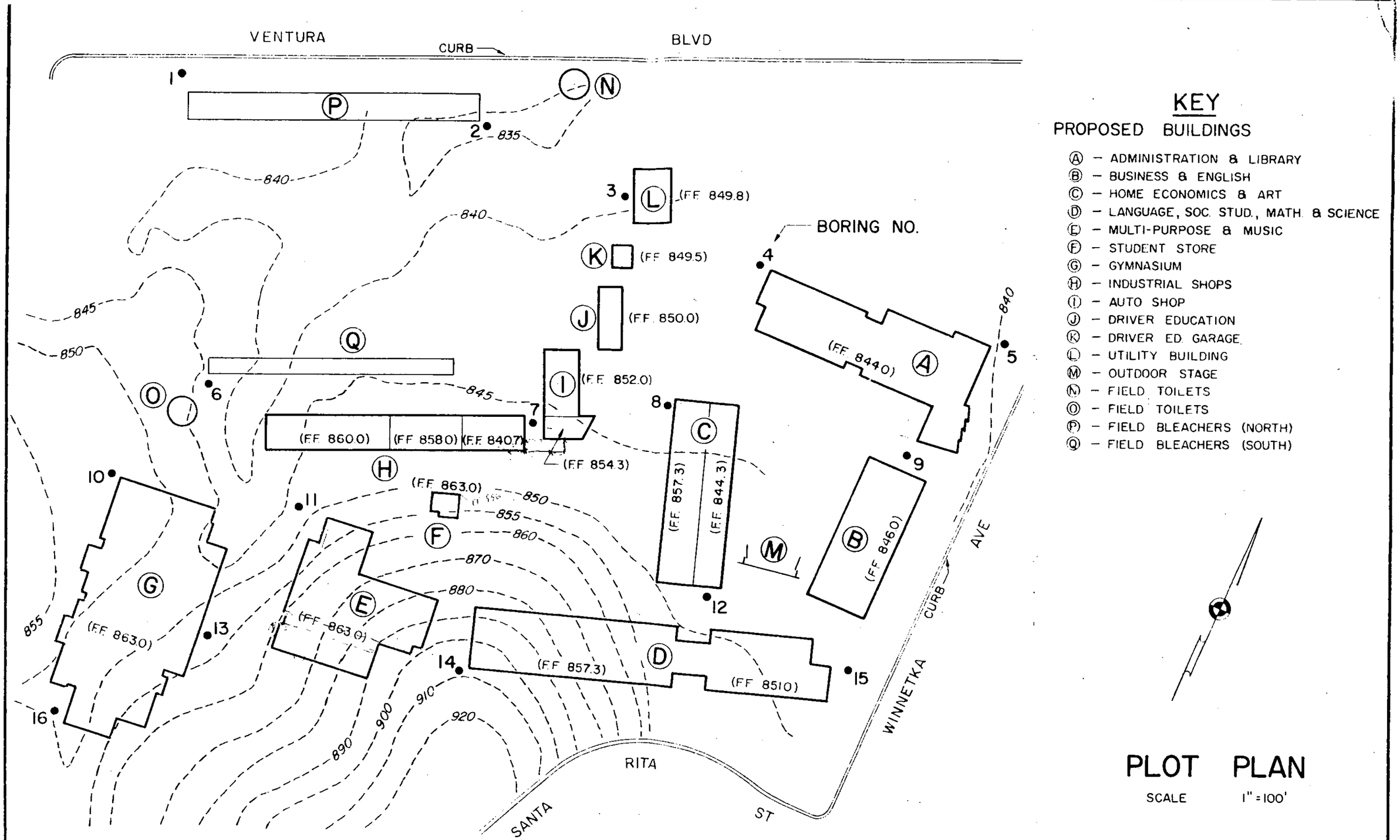


Figure 1 Non-Normalized and Normalized Soil Behavior Type Classification Charts

Table 2 References

No.	Reference
1	Robertson, P.K. and Campanella, R.G., 1986, "Guidelines for Use, Interpretation and Application of the CPT and CPTU", UBC, Soil Mechanics Series No. 105, Civil Eng. Dept., Vancouver, B.C., Canada
2	Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.
3	Robertson, P.K. and Campanella, R.G., 1989, "Guidelines for Geotechnical Design Using CPT and CPTU", UBC, Soil Mechanics Series No. 120, Civil Eng. Dept., Vancouver, B.C., Canada
4	Robertson, P.K., 1990, "Soil Classification Using the Cone Penetration Test", Canadian Geotechnical Journal, Volume 27.
5	Robertson, P.K. and Fear, C.E., 1995, "Liquefaction of Sands and its Evaluation", Keynote Lecture, First International Conference on Earthquake Geotechnical Engineering, Tokyo, Japan.
6	Gregg In Situ Internal Report
7	Robertson, P.K. and Wride, C.E., 1997, "Cyclic Liquefaction and its Evaluation Based on SPT and CPT", NCEER Workshop Paper, January 22, 1997
8	Wride, C.E. and Robertson, P.K., 1997, "Phase II Data Review Report (Massey and Kidd Sites, Fraser River Delta)", Volume 1 - Data Report (June 1997), University of Alberta.
9	Plewes, H.D., Davies, M.P. and Jefferies, M.G., 1992, "CPT Based Screening Procedure for Evaluating Liquefaction Susceptibility", 45th Canadian Geotechnical Conference, Toronto, Ontario, October 1992.

PRIOR FIELD EXPLORATIONS AND LABORATORY TEST RESULTS FOR PROJECT NO. 57303



REFERENCES:

① UNDATED PLOT PLAN OF WILLIAM HOWARD TAFT HIGH SCHOOL. BY BALCH, BRYAN, PERKINS & HUTCHASON.

② TOPOGRAPHY MAP OF SCHOOL SITE BY VOORHEIS–TRINDLE CO. DATED 7–5–57.

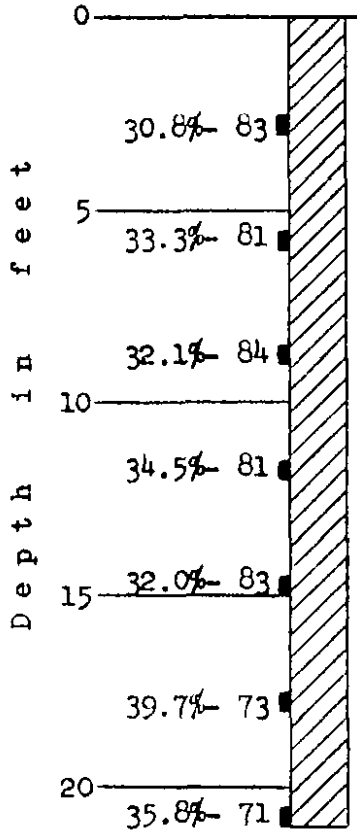
NOTE – CONTOURS SHOWN INDICATE EXISTING TOPOGRAPHY.

LEROY CRANDALL & ASSOCIATES

JOB 57303 DATE 11-6-57 BY E.R.L.

LOG OF BORING 1

Elevation 882*



COMPACTED FILL - LEAN CLAY - with pieces of shale, mottled brown

Large chunk of hard shale

NOTE: Groundwater not encountered; no caving.

KEY:

35.8%- 71 — Indicates depth at which undisturbed sample obtained
71 — Dry density in lbs./cu.ft.
35.8% — Field moisture content in percent of dry weight

Soils classified in accordance with the United States Bureau of Reclamation system.

* Elevations refer to Datum of Reference Drawing, (see Plot Plan).

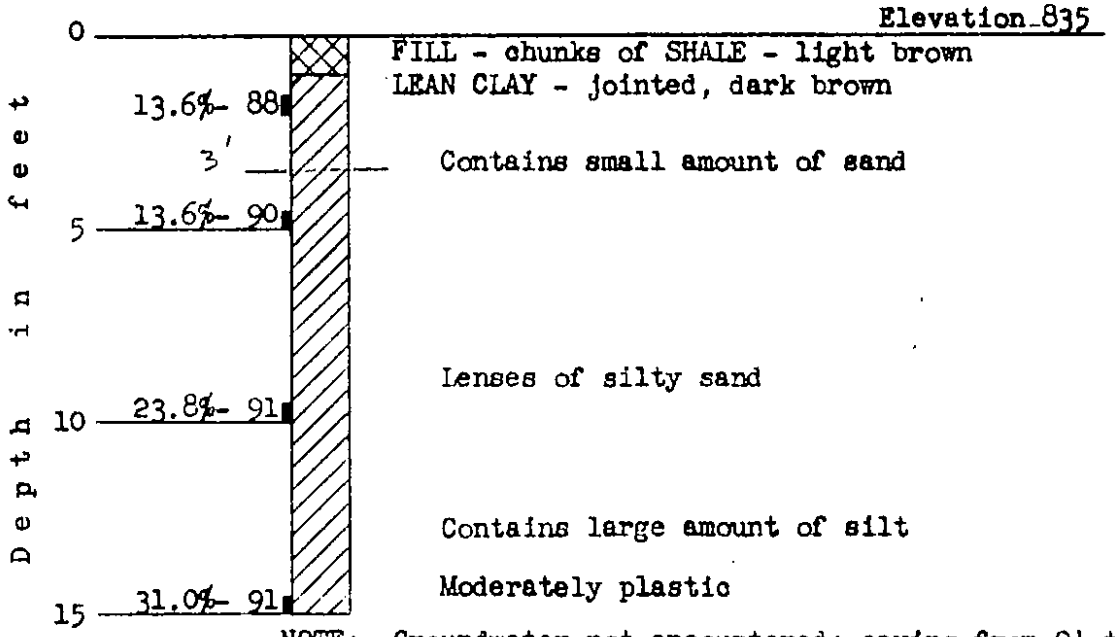
LEROY CRANDALL & ASSOCIATES

PLATE A-1A

JOB 57303 DATE 11-6-57 BY F.R.L.

LOG OF BORING 2

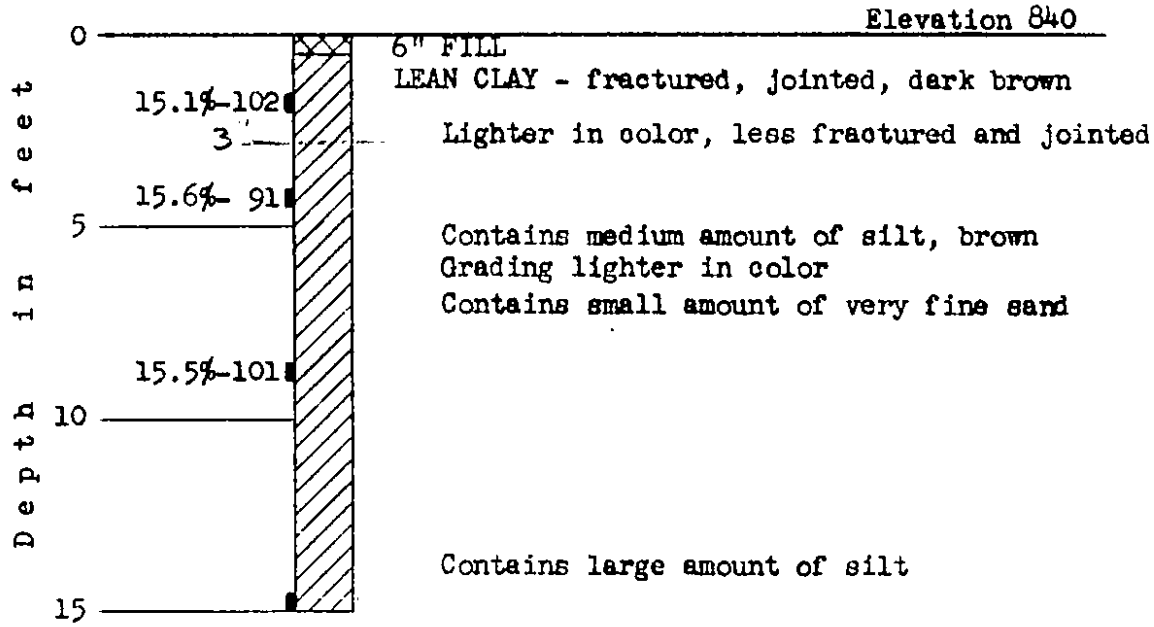
Elevation 835



NOTE: Groundwater not encountered; caving from 0' to 1'.

LOG OF BORING 3

Elevation 840



NOTE: Groundwater not encountered; no caving.

LEROY CRANDALL & ASSOCIATES

JOB 57303 DATE 11-6-67 BY F.R.L.

LOG OF BORING 4

Elevation 842

Depth in feet

0

13.0%- 87

FILL - LEAN CLAY - with silty sand and shale, pieces of wood, gravel and concrete, light brown

LEAN CLAY - jointed, fractured, black

5

13.3%- 89

6'

Brown

CLAYEY SAND - sand predominantly fine, contains medium to large amount of clay, brown

10.0%- 90

10

LEAN CLAY - contains small amount of silt, brown

19.5%- 97

15

NOTE: Groundwater not encountered; no caving.

LOG OF BORING 5

Elevation 840

Depth in feet

0

FILL - LEAN CLAY - brown

LEAN CLAY - jointed, fractured, brown
Contains small amount of sand

3'

13.0%- 97

5

CLAYEY SAND - sand predominantly fine, medium to large amount of clay, brown

8.1%-101

SILT - contains medium amount of fine sand, brown

10

10.7%-102

Contains less sand, medium amount of clay

15

20.0%-103

NOTE: Groundwater not encountered; no caving.

LEROY CRANDALL & ASSOCIATES

JOB 57303 DATE 11-6-57 BY F.R.L.

LOG OF BORING 6

Elevation 844

Depth in feet

0

LEAN CLAY - highly jointed and fractured, dark brown

17.2%- 85

4'

Lighter in color, less fractured

5

17.7%- 91

Contains large amount of silt

Contains large amount of very fine sand

10

22.5%- 89

Darker in color

15

26.4%- 95

NOTE: Groundwater not encountered; no caving.

LOG OF BORING 7

Elevation 847

Depth in feet

0

LEAN CLAY - fractured and jointed, dark brown

16.1%-104

3' Lighter in color; less fractured

5

Lighter in color; contains pieces of weathered shale

15.8%- 90

Few chunks of shale to 6"

10

14.9%-107

Mottled brown

15

20.9%- 92

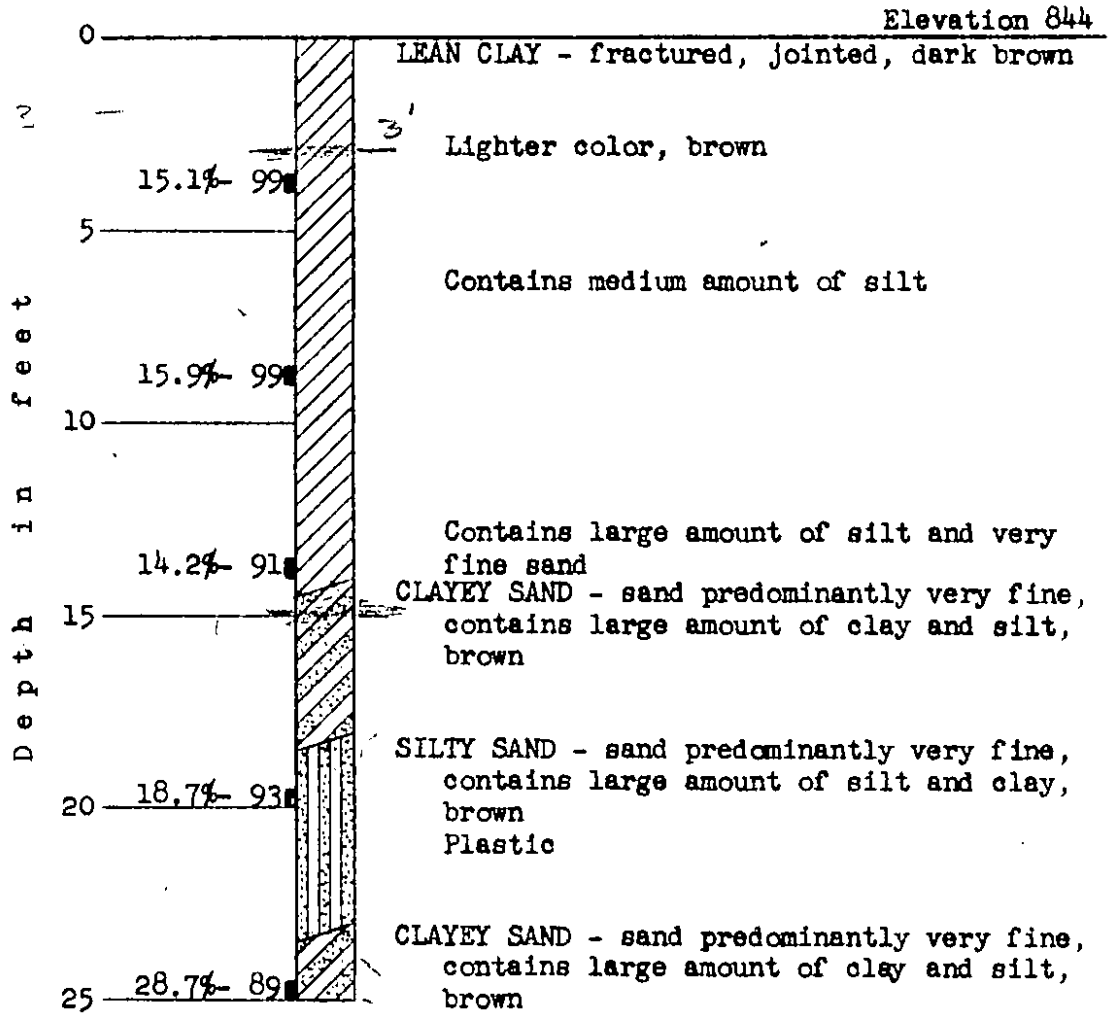
NOTE: Groundwater not encountered; no caving.

LEROY CRANDALL & ASSOCIATES

JOB 57303 DATE 11-6-67 BY E.R.L.

LOG OF BORING 8

Elevation 844



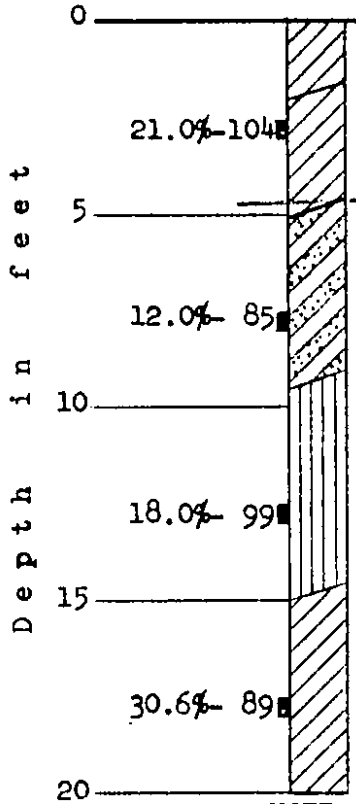
NOTE: Groundwater encountered at 24'; no caving.

LEROY CRANDALL & ASSOCIATES

JOB 57303 DATE 11/7/57 BY FRC

LOG OF BORING 9

Elevation 844



FILL - LEAN CLAY - with silty sand and pieces of concrete and brick

LEAN CLAY - black

CLAYEY SAND - sand predominantly fine, medium amount of clay, pieces of shale, brown

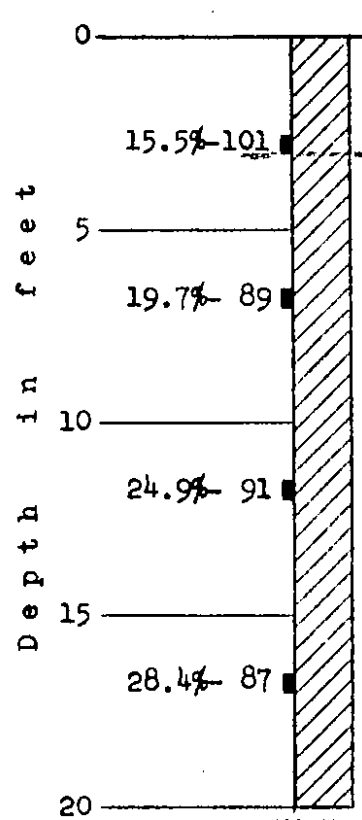
SILT - contains layers of silty sand and lean clay, brown

LEAN CLAY - contains medium amount of silt, mottled brown

NOTE: Groundwater not encountered; no caving.

LOG OF BORING 10

Elevation 852



LEAN CLAY - fractured and jointed, dark brown

Lighter in color, brown

Contains medium amount of silt

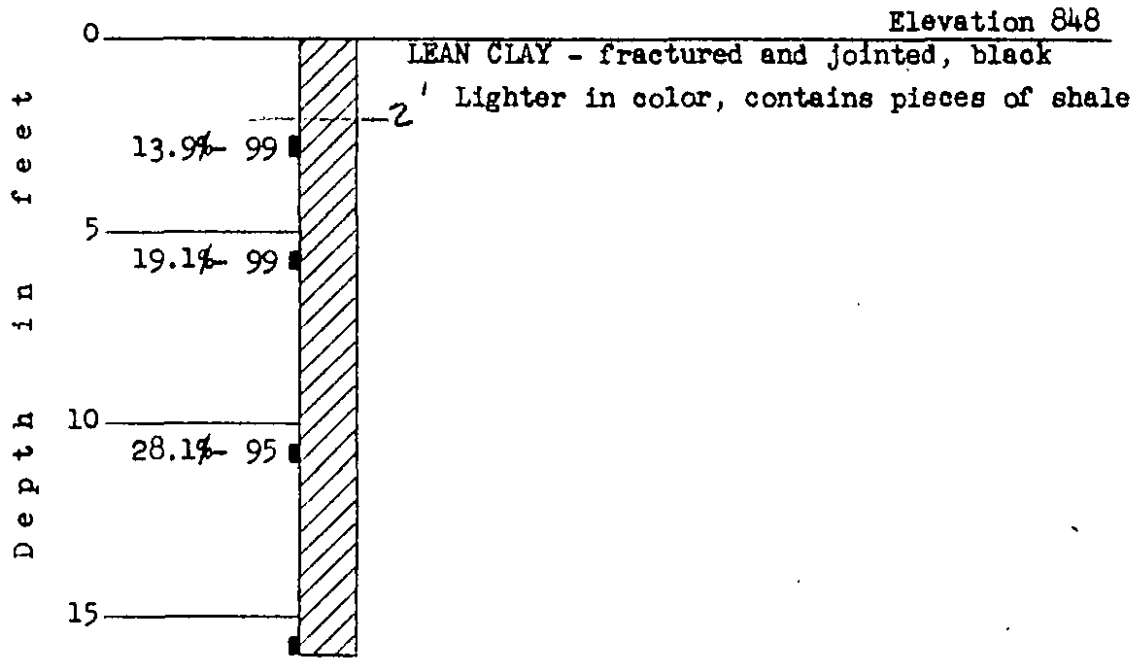
Large amount of silt and very fine sand

NOTE: Groundwater not encountered; no caving.

LEROY CRANDALL & ASSOCIATES

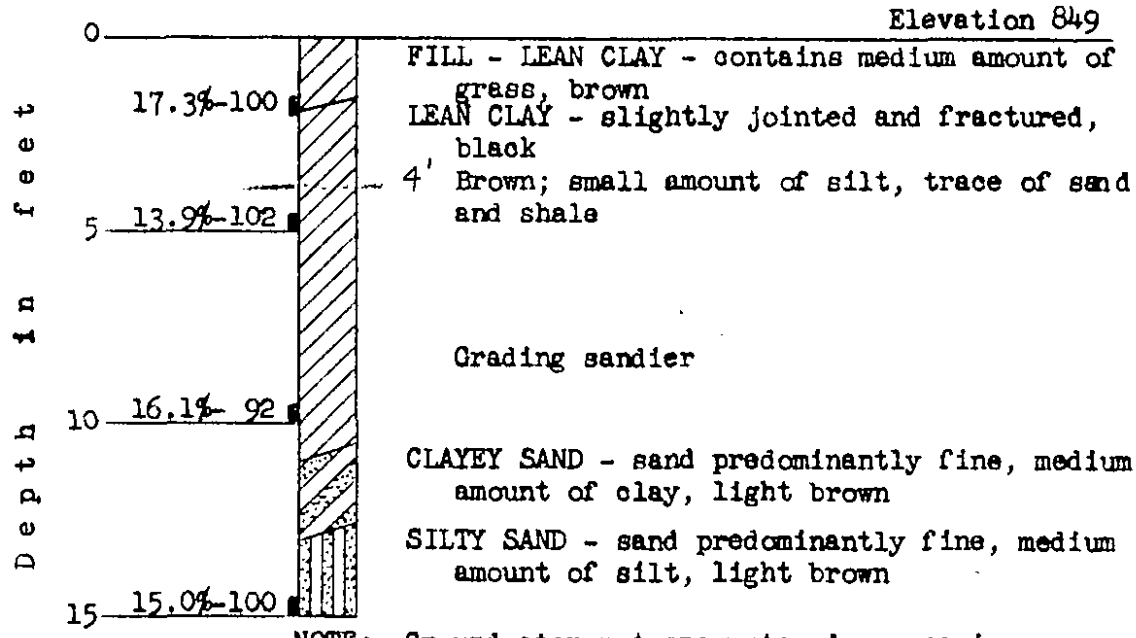
JOB 57303 DATE 11-7-57 BY F.A.L.

LOG OF BORING 11



NOTE: Groundwater not encountered; no caving.

LOG OF BORING 12

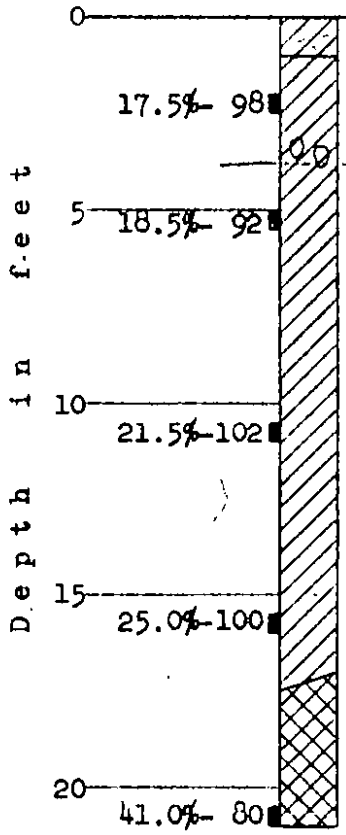


NOTE: Groundwater not encountered; no caving.

JOB 57303 DATE 11-7-[illegible] BY E.R.L.

LOG OF BORING 13

Elevation 853



FILL - LEAN CLAY

LEAN CLAY - jointed, dark brown

4' Contains large pieces of hard shale

Lighter in color, brown

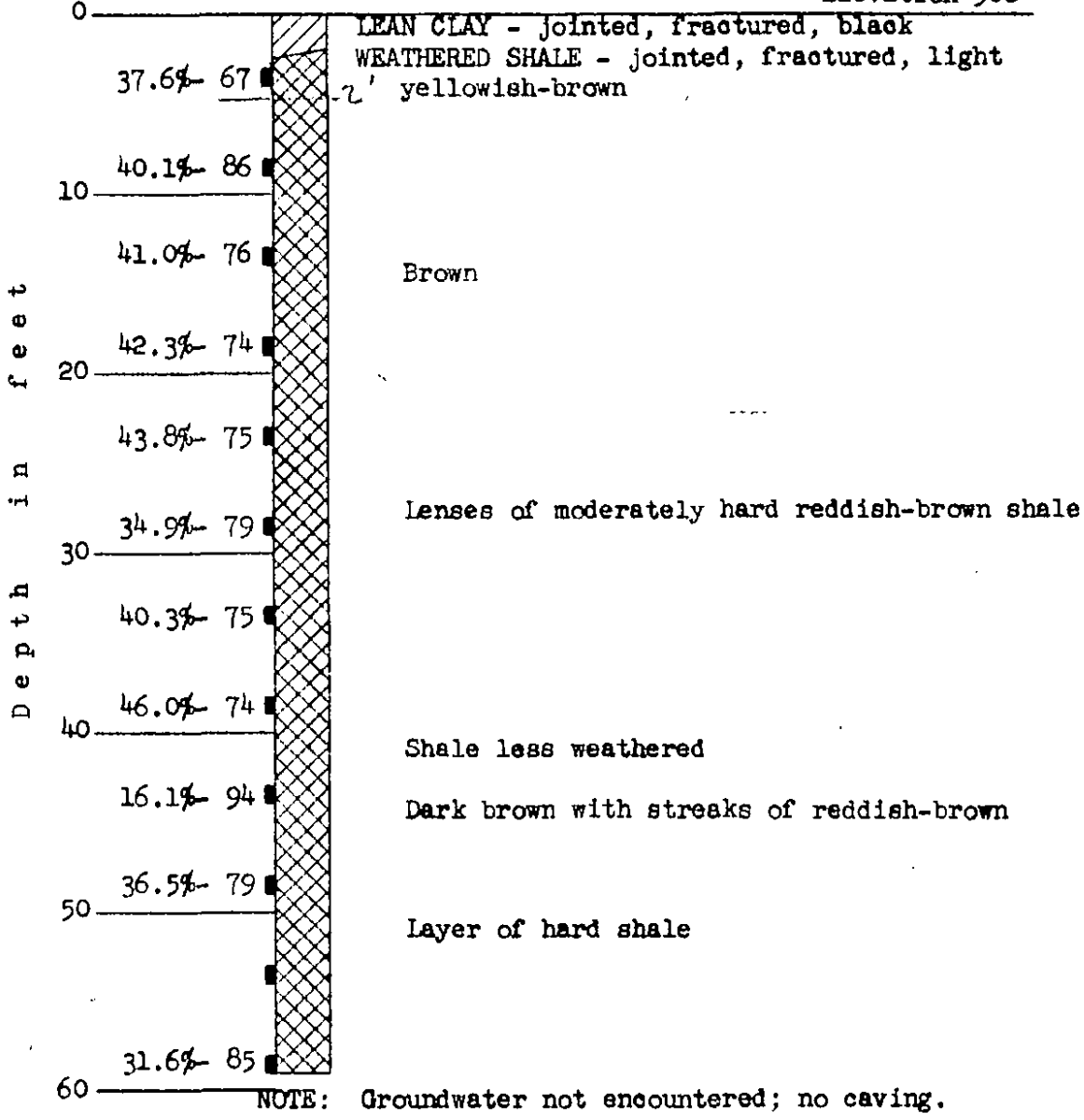
WEATHERED SHALE - brown

NOTE: Groundwater not encountered; no caving.

JOB 57303 DATE 11-7-57 BY E.R.L.

LOG OF BORING 14*

Elevation 908



NOTE: Groundwater not encountered; no caving.

* NOTE CHANGE IN SCALE OF DEPTH.

LEROY CRANDALL & ASSOCIATES

JOB 57303 DATE 11-1-57 BY E.R.L.

LOG OF BORING 15

Elevation 849

Depth in feet

0 — FILL - CHUNKS OF SHALE - light brown

13.3%- 70

LEAN CLAY - jointed, fractured, contains pieces of shale, brown

5 — 6' Less jointed and fractured

10 — 16.3%-102

Contains small amount of sand

15 — 14.7%-103

CLAYEY SAND - sand predominantly fine, medium amount of clay, brown

Layer of shale gravel

20 — 26.8%- 94

NOTE: Groundwater not encountered; no caving.

LOG OF BORING 16

Elevation 849

Depth in feet

0 — LEAN CLAY - jointed, fractured, black

Less jointed and fractured

14.8%-102 — 3'

5 — 16.0%- 90

Dark brown; streaks of alkali

10 — 24.0%- 97

Brown; less streaks of alkali
Pieces of shale

15 — WEATHERED SHALE - mottled reddish-brown

37.4%- 82

Moderately hard, dark brown

20

NOTE: Groundwater not encountered; no caving.

LEROY CRANDALL & ASSOCIATES

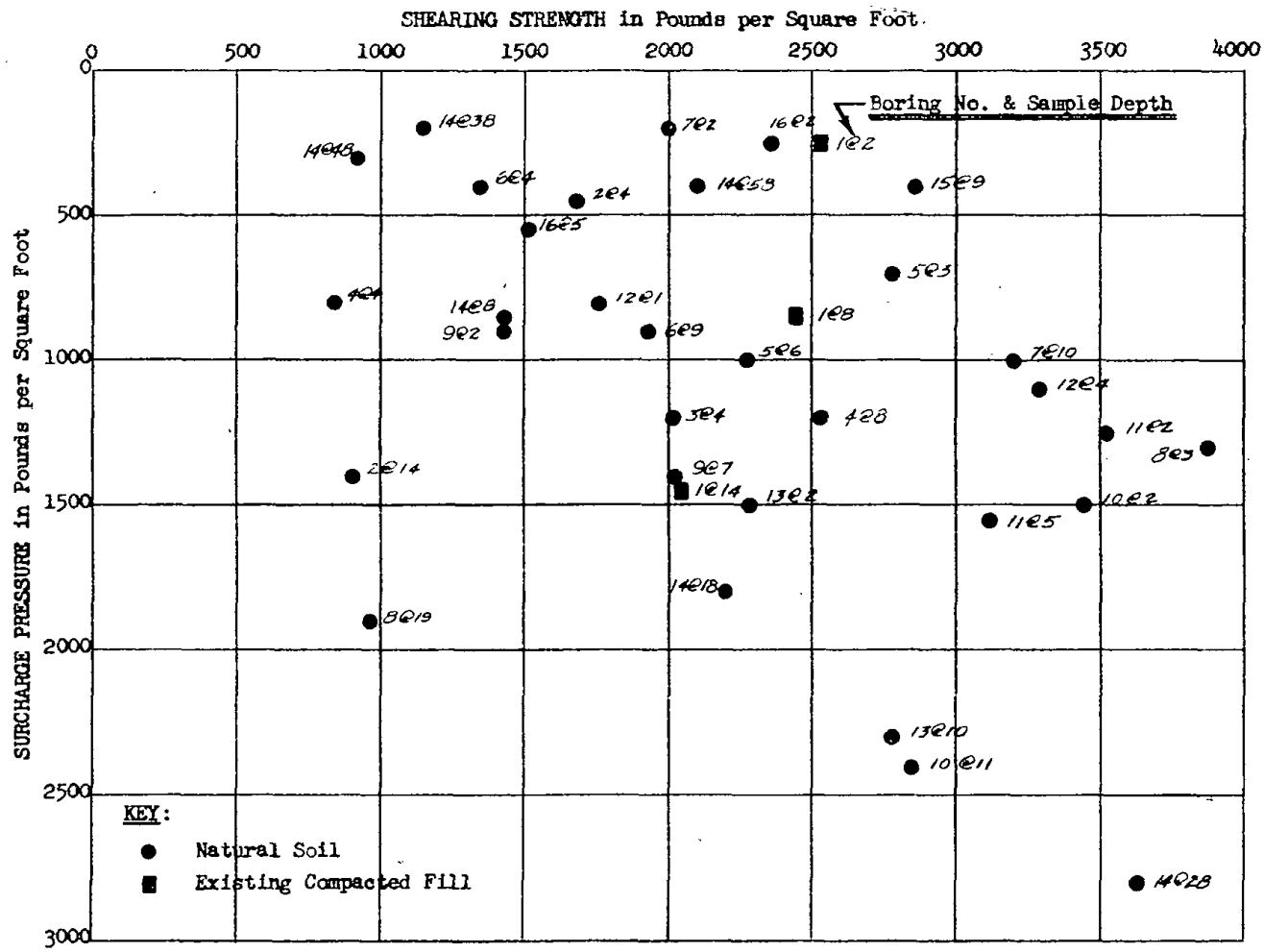
IDENTIFICATION, CLASSIFICATION AND DESCRIPTION OF SOILS

U. S. BUREAU OF RECLAMATION

MAJOR DIVISIONS & SUBDIVISIONS			STANDARD NAMES AND SOIL GROUP DESCRIPTIONS	SYMB.	DESCRIPTIVE INFORMATION TO BE ADDED TO THE STANDARD NAMES FOR DESCRIPTION
COARSE GRAINED SOILS Less than one-half the total soil passing the 200 mesh sieve.	GRAVELLY SOILS Less than one-half the coarse grains passing the No. 4 sieve	GRAVELS "clean" material Little or no fines	WELL GRADED GRAVEL Well-graded gravels or gravel-sand mixtures, little or no fines.		Maximum size, angularity and surface conditions, friability or hardness, and approximate percentage of sand, if any.
			POORLY GRADED GRAVEL Poorly graded gravels or sand-gravel mixtures, little or no fines.		Maximum size, predominant size, angularity, surface conditions, friability or hardness, and approximate percentage of sand, if any.
		GRAVEL WITH FINES "dirty" material Apprec. amount of fines	SILTY GRAVEL Silty gravels, or poorly graded gravel-sand-silt mixtures.		Maximum size, predominant size, friability or hardness; describe fines as being very silty, moderately silty, or slightly silty.
			CLAYEY GRAVEL Clayey gravels or gravel-sand-clay mixtures.		Well or poorly graded, maximum size, predominant size if poorly graded, angularity, friability or hardness; describe fines as slightly, moderately, or very clayey or type of binder in well graded gravels with clay binder.
	SANDY SOILS More than one-half the coarse grains passing the No. 4 sieve.	SANDS "clean" material Little fines	WELL GRADED SAND Well graded sands or gravelly sands, little or no fines.		Angularity, particle shape, friability or hardness, approximate color, percentage of gravel, if any.
			POORLY GRADED SAND Poorly graded sands or gravelly sands, little or no fines.		Coarse, medium, or fine particle, particle shape, clean or slightly dirty, approximate percentage of gravel, if any.
		SANDS WITH FINES "dirty" material Apprec. amount of fines	SILTY SAND Silty sands or poorly graded sand-silt mixtures.		Fine, medium, or coarse particles, shape and hardness of particles, large, medium or small proportion of silt, color, approximate percentage of gravel, if any.
			CLAYEY SAND Clayey sands or sand-clay mixture.		Well graded or poorly graded, predominant size if poorly graded, quality of binder if well graded, large medium, or small amount of clay, color, approximate percentage of gravel, if any.
FINE GRAINED SOILS More than one-half the total soil passing the 200 mesh sieve.	SILT AND CLAY SOILS with low compressibility		SILT Inorganic silts and very fine sand, silty or clayey fine sands.		Presence of clay or sand, and color, degree of plasticity, if any.
			LEAN CLAY Inorganic clays of low to medium plasticity, gravelly or sandy.		Degree of plasticity, silt, sand, or gravel content, and color.
			ORGANIC SILT Organic silts and organic silt-clays of low plasticity.		Visibility of organic material, odor, plasticity, and color.
	SILT AND CLAY SOILS with high compressibility		ELASTIC SILT Very compressible silts, micaceous or diatomaceous sandy or silt soil.		Presence of clay, degree of plasticity, and color.
			FAT CLAY Very compressible clays, inorganic clays of high plasticity.		Color, presence of gravel and other significant factors.
			ORGANIC CLAY Organic clays of medium to high plasticity, very compressible.		Odor, degree of plasticity, and color.
ORGANIC SOILS			PEAT Peat and other highly organic swamp soils.		Odor, presence of fibrous material, color.

LEROY CRANDALL & ASSOCIATES

JOB 57303 DATE 12/7/57 BY VDK

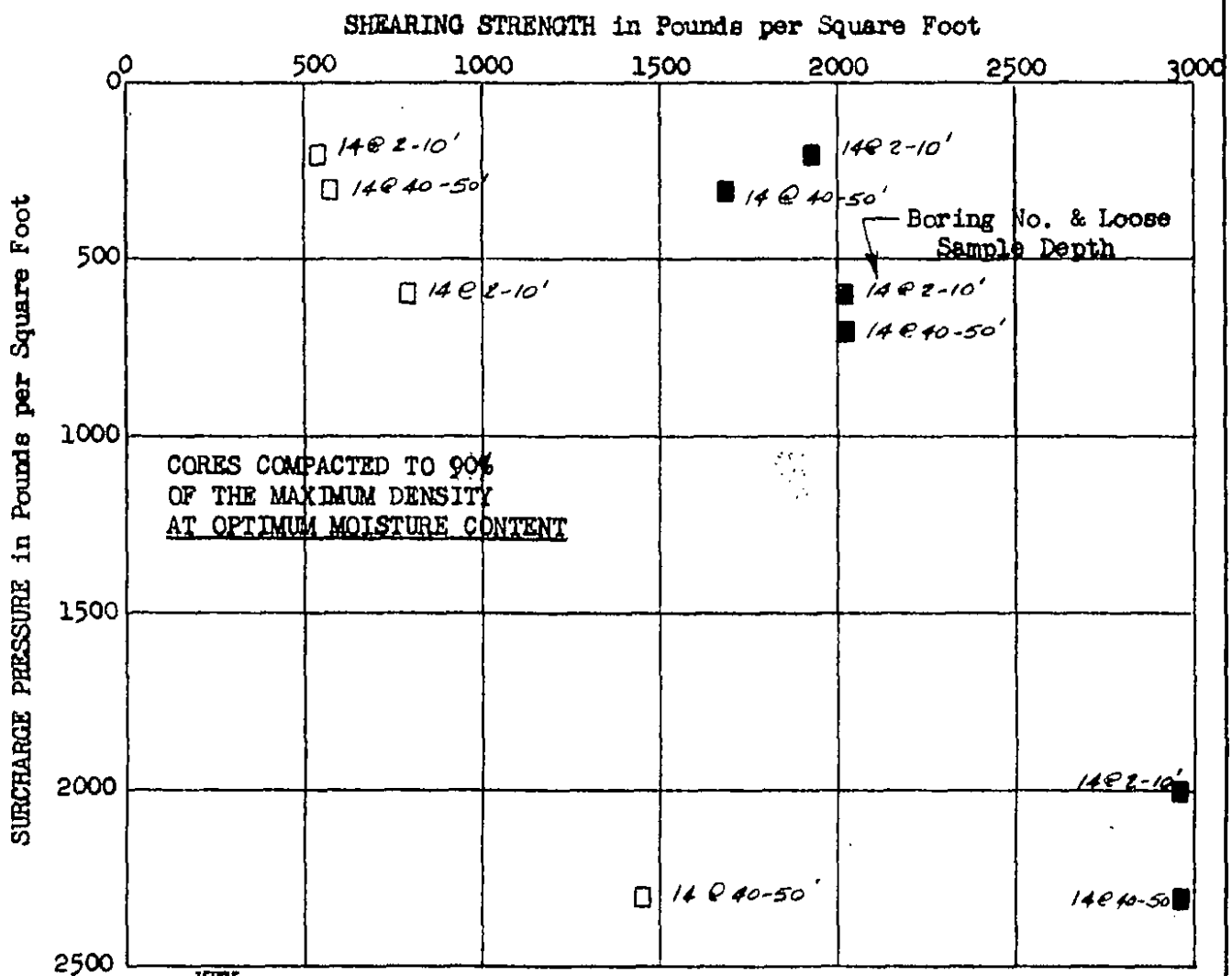


SHEAR SUMMARY
(UNDISTURBED SAMPLES)

LEROY CRANDALL & ASSOCIATES

PLATE A-3A

JOB 57303 DATE 12/7/57 BY JDK



KEY:

■ Tested at optimum moisture content

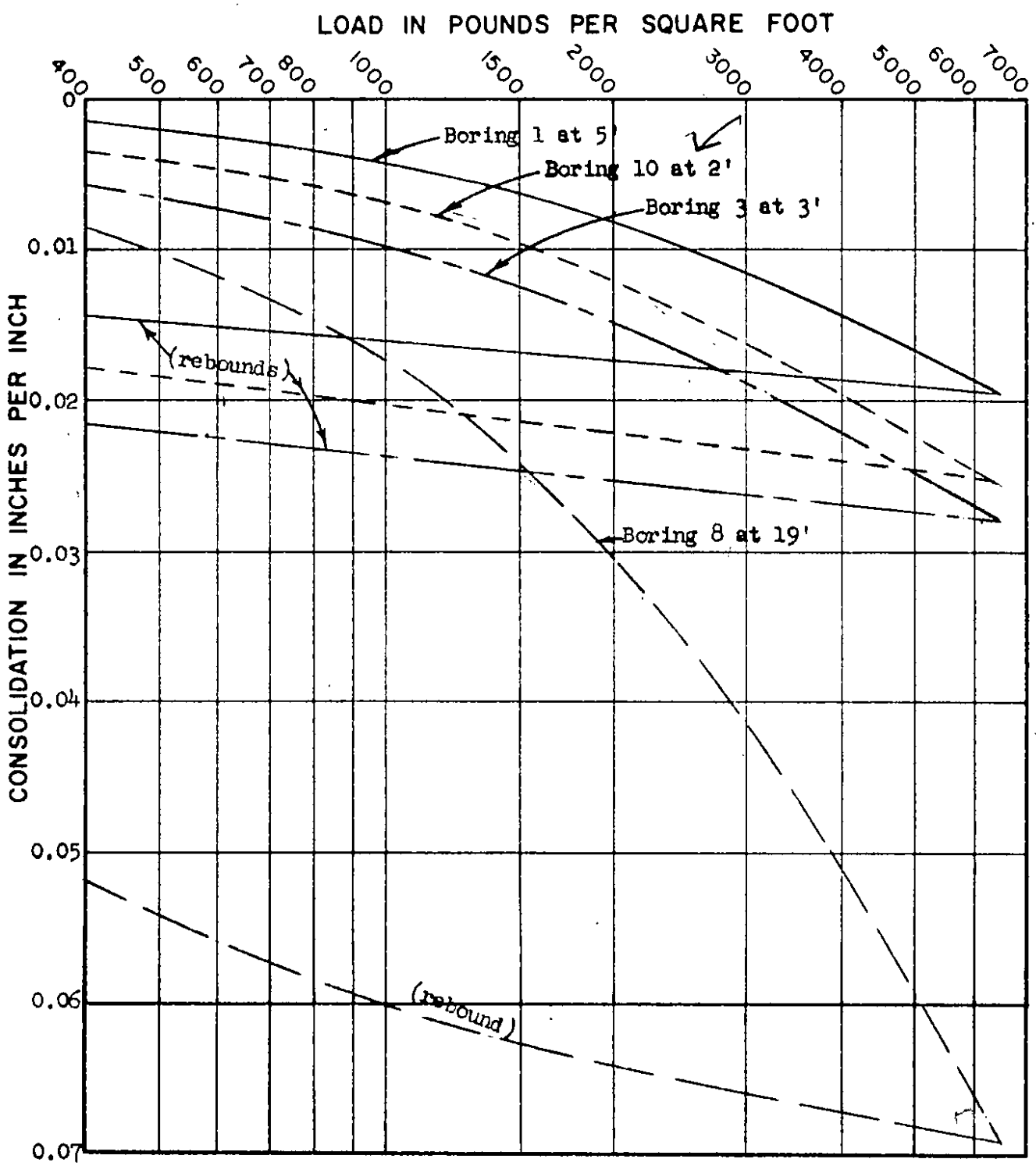
□ Tested at increased moisture content

SHEAR SUMMARY

REMOLDED CORES

LEROY CRANDALL & ASSOCIATES

PLATE A-3B



CONSOLIDATION TEST DATA

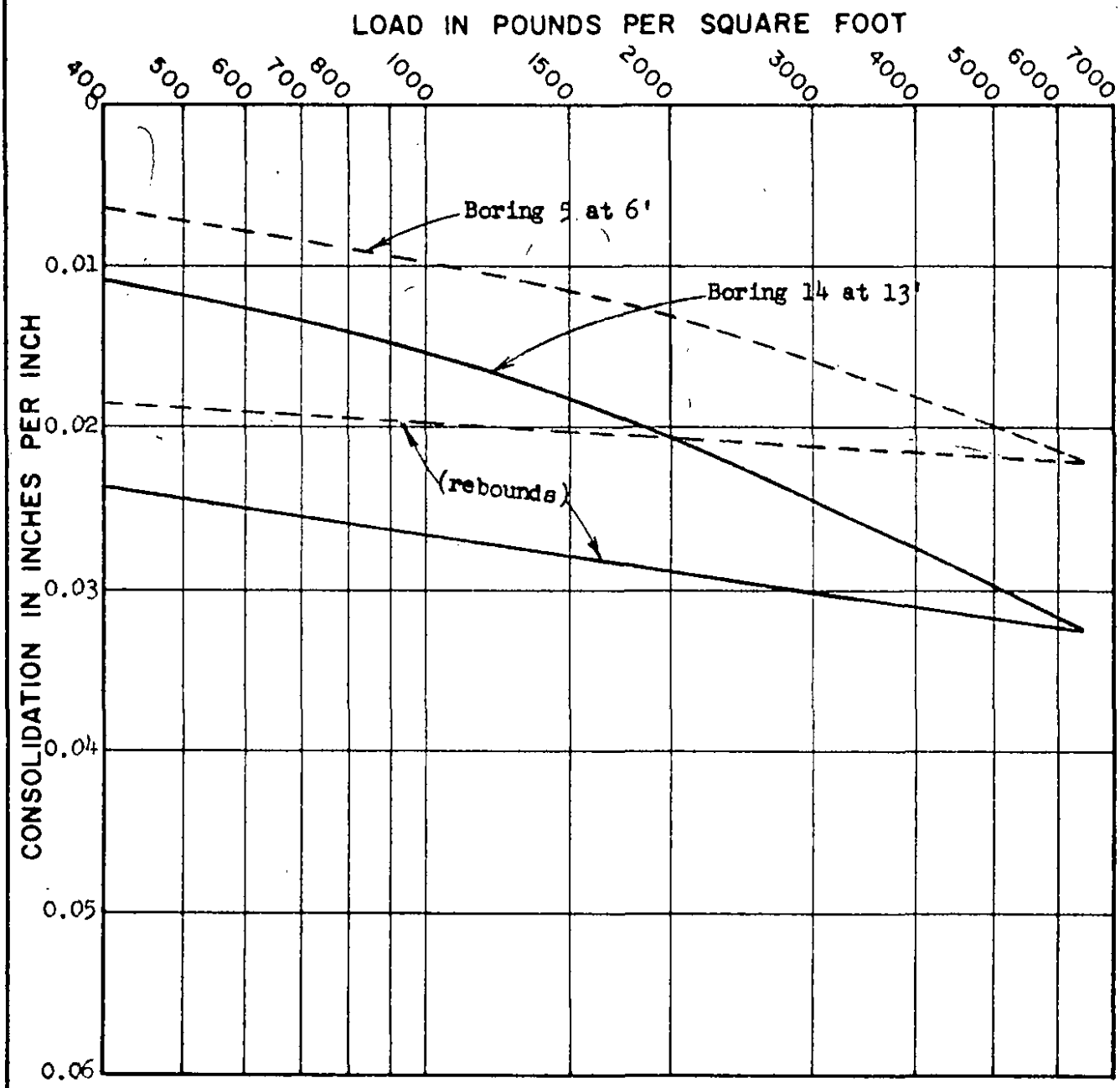
(UNDISTURBED SAMPLES)

LEROY CRANDALL & ASSOCIATES

PLATE A-4A

JOB 57303 DATE 12/7/57 BY JDK

JOB 57303 DATE 12/16/57 BY WDK

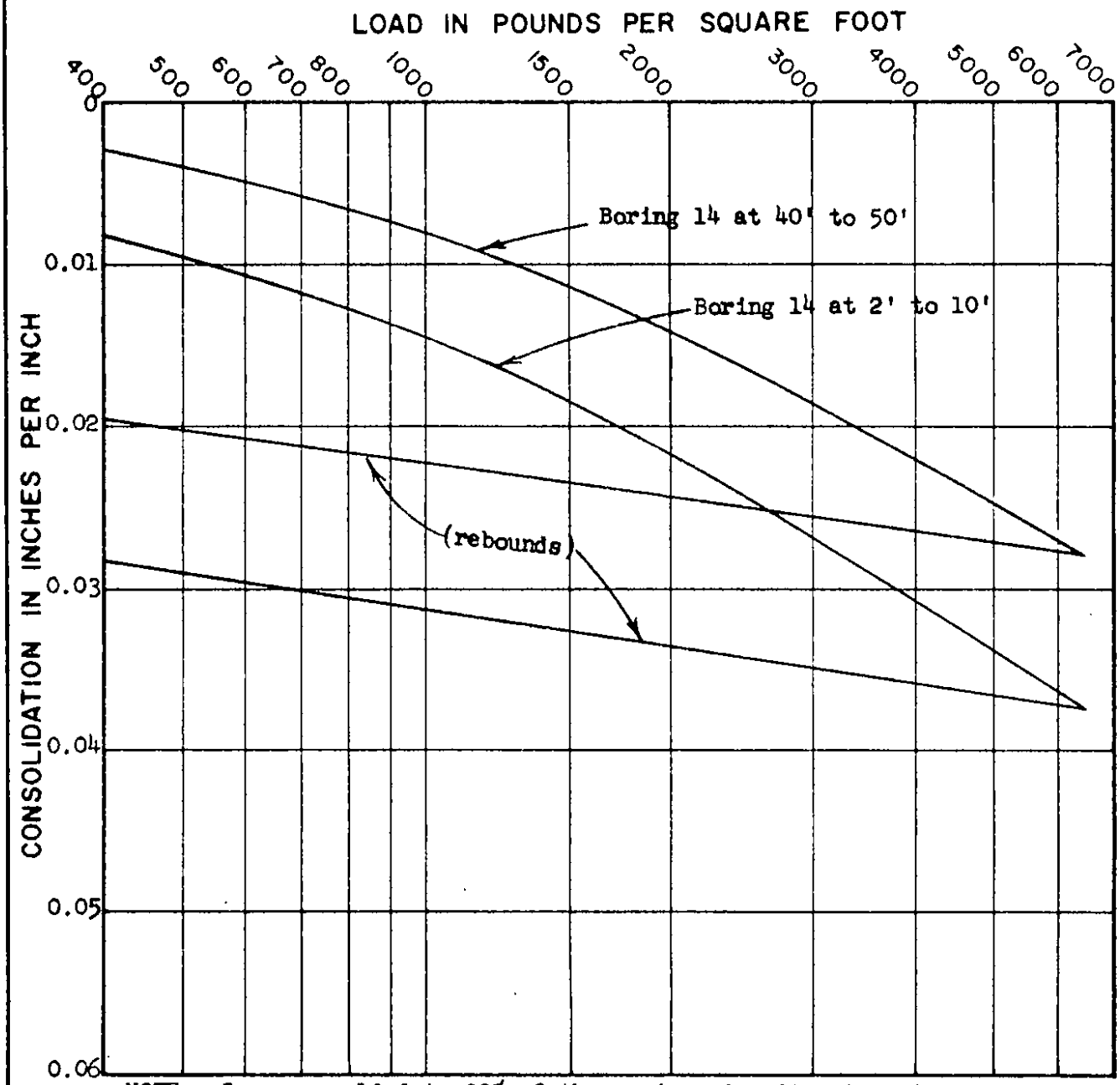


CONSOLIDATION TEST DATA

(UNDISTURBED SAMPLES)

LEROY CRANDALL & ASSOCIATES

PLATE A-4B



NOTE: Cores remolded to 90% of the maximum density at optimum moisture content.

CONSOLIDATION TEST DATA

REMOLDED CORES

LEROY CRANDALL & ASSOCIATES

PLATE A-40

JOB 57303 DATE 12/13/57 BY JDK

APPENDIX C

SOIL CORROSIVITY REPORT

June 1, 2017 via email: larry.hong@amecfw.com

AMEC FOSTER WHEELER
6001 Rickenbacker Road
Los Angeles, CA 90040

Attention: Mr. Larry Hong, PE

Re: Soil Corrosivity Study
LAUSD Taft High School
Woodland Hills, California
HDR #17-0311SCS, AMEC #4953-17-0421

Introduction

Laboratory tests have been completed on three batches of soil samples provided for the referenced project consisting of a total of eight samples in all. The first batch was tested in 2002, the second in 2011, and the most recent batch in 2017. The purpose of these tests was to determine whether the soils might have deleterious effects on underground utility piping, hydraulic elevator cylinders, and concrete structures. HDR Engineering, Inc. (HDR) assumes that the samples provided are representative of the most corrosive soils at the site.

The number of stories of the proposed project is yet to be determined; currently the project is planned to have one subterranean level. The site is located at 5461 Winnetka Avenue in Woodland Hills, California, and the water table is reportedly about 25 feet deep.

The scope of this study is limited to a of determination soil corrosivity and general corrosion control recommendations for materials likely to be used for construction. HDR's recommendations do not constitute, and are not meant as a substitute for, design documents for the purpose of construction. If the architects and/or engineers desire more specific information, designs, specifications, or review of design, HDR will be happy to work with them as a separate phase of this project.

431 W. Baseline Road, Claremont, CA 91711-1608
(909) 626-0967

Laboratory Soil Corrosivity Tests

The electrical resistivity of each sample was measured in a soil box per ASTM G187 in its as-received condition and again after saturation with distilled water. Resistivities are at about their lowest value when the soil is saturated. The pH of the saturated samples was measured per CTM 643. A 5:1 water:soil extract from each sample was chemically analyzed for the major soluble salts commonly found in soil per ASTM D4327, ASTM D6919, and Standard Method 2320-B[1]. Sulfide and oxidation-reduction (redox) potential were determined on two samples per ASTM G200 and AWWA C105 Appendix A. Laboratory test results are shown in the attached Table 1, Table 2, and Table 3.

Soil Corrosivity

A major factor in determining soil corrosivity is electrical resistivity. The electrical resistivity of a soil is a measure of its resistance to the flow of electrical current. Corrosion of buried metal is an electrochemical process in which the amount of metal loss due to corrosion is directly proportional to the flow of electrical current (DC) from the metal into the soil. Corrosion currents, following Ohm's Law, are inversely proportional to soil resistivity. Lower electrical resistivities result from higher moisture and soluble salt contents and indicate corrosive soil.

A correlation between electrical resistivity and corrosivity toward ferrous metals is:[2]

Soil Resistivity in ohm-centimeters	Corrosivity Category
Greater than 10,000	Mildly Corrosive
2,001 to 10,000	Moderately Corrosive
1,001 to 2,000	Corrosive
0 to 1,000	Severely Corrosive

Other soil characteristics that may influence corrosivity towards metals are pH, soluble salt content, soil types, aeration, anaerobic conditions, and site drainage.

---

[1] *American Public Health Association (APHA). 2012. Standard Methods of Water and Wastewater. 22nd ed. American Public Health Association, American Water Works Association, Water Environment Federation publication. APHA, Washington D.C.*

[2] *Romanoff, Melvin. Underground Corrosion, NBS Circular 579. Reprinted by NACE. Houston, TX, 1989, pp. 166–167.*

Electrical resistivities were in the mildy to severely corrosive categories with as-received moisture. When saturated, the resistivities were in the moderately to severely corrosive categories. Some of the resistivities dropped considerably with added moisture because the samples were dry as-received.

Soil pH values varied from 4.5 to 8.1. This range is very strongly acidic to moderately alkaline.[3] Soil with a pH less than 5.5 is considered aggressive to copper and concrete.

The soluble salt content was very high in the samples from boring 2 on Table 1 (2002) and sample 2 on Table 2 (2011) and less in the others. Sulfate salts were the predominant constituents. High concentrations of sulfate, as was measured in the mentioned soil samples, can react with components in concrete to cause degradation and reduced strength in a mechanism known as sulfate attack.

The ammonium concentrations measured on the samples from Boring 2 on Table 1 and sample 2 on Table 2 were high enough to be aggressive to copper.

Sulfide, which is aggressive to copper and ferrous metals, was found to be present in a qualitative test performed on the samples from Boring 2 on Table 1 and sample 2 on Table 2. The low and negative redox potentials measured on the samples indicate reducing conditions in which anaerobic, sulfide-producing bacteria may be active.

This soil is classified as severely corrosive to ferrous metals, aggressive to copper, severe for sulfate attack on concrete, aggressive with respect to exposure of concrete to acid attack, and could subject metal to microbially influenced corrosion.

Corrosion Control Recommendations

The life of buried materials depends on thickness, strength, loads, construction details, soil moisture, etc., in addition to soil corrosivity, and is, therefore, difficult to predict. Of more practical value are corrosion control methods that will increase the life of materials that would be subject to significant corrosion.

The following recommendations are based on the soil conditions discussed in the Soil Corrosivity section above. Unless otherwise indicated, these recommendations apply to the entire site or alignment.

---

[3] *Romanoff, Melvin. Underground Corrosion, NBS Circular 579. Reprinted by NACE. Houston, TX, 1989, p. 8.*

Steel Pipe

Implement *all* the following measures:

1. Underground steel pipe with rubber gasketed, mechanical, grooved end, or other nonconductive type joints should be bonded for electrical continuity. Electrical continuity is necessary for corrosion monitoring and cathodic protection.
2. Install corrosion monitoring test stations to facilitate corrosion monitoring and the application of cathodic protection:
    a. At each end of the pipeline.
    b. At each end of all casings.
    c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.
3. To prevent dissimilar metal corrosion cells and to facilitate the application of cathodic protection, electrically isolate each buried steel pipeline per NACE SP0286 from:
    a. Dissimilar metals.
    b. Dissimilarly coated piping (cement-mortar vs. dielectric).
    c. Above ground steel pipe.
    d. All existing piping.
4. Choose one of the following corrosion control options:

    OPTION 1

    a. Apply a suitable dielectric coating intended for underground use such as:
        i. Polyurethane per AWWA C222 *or*
        ii. Extruded polyethylene per AWWA C215 *or*
        iii. A tape coating system per AWWA C214 *or*
        iv. Hot applied coal tar enamel per AWWA C203 *or*

v. Fusion bonded epoxy per AWWA C213.

b. Apply cathodic protection to steel piping as per NACE SP0169.

OPTION 2

a. As an alternative to dielectric coating and cathodic protection, apply a ¾-inch cement mortar coating per AWWA C205 or encase in concrete 3 inches thick, using ASTM C150 Type V cement. Joint bonds, test stations, and insulated joints are still recommended for these alternatives.

NOTE: Some steel piping systems, such as for oil, gas, and high-pressure piping systems, have special corrosion and cathodic protection requirements that must be evaluated for each specific application.

Hydraulic Elevator

Implement *all* the following measures:

1. Choose one of the following corrosion control options for the hydraulic steel cylinders.

OPTION 1

a. Coat hydraulic elevator cylinders with a suitable dielectric coating intended for underground use such as:

i. Polyurethane per AWWA C222 or

ii. Extruded polyethylene per AWWA C215 or

iii. A tape coating system per AWWA C214 or

iv. Hot applied coal tar enamel per AWWA C203 or

v. Fusion bonded epoxy per AWWA C213.

b. Electrically insulate each cylinder from building metals by installing dielectric material between the piston platen and car, insulating the bolts, and installing an insulated joint in the oil line.

c. Apply cathodic protection to hydraulic cylinders as per NACE SP0169.

OPTION 2

a. As an alternative to electrical insulation and cathodic protection, place each cylinder in a plastic casing with a plastic watertight seal at the bottom.

2. The elevator oil line should be placed above ground if possible but, if underground, should be protected by one of the following corrosion control options:

OPTION 1

a. Provide a bonded dielectric coating.

b. Electrically isolate the pipeline.

c. Apply cathodic protection to steel piping as per NACE SP0169.

OPTION 2

a. Place the oil line in a PVC casing pipe with solvent-welded joints and sealed at each end to prevent contact with soil and moisture.

Iron Pipe

Implement *all* the following measures:

1. Conditions on-site have the potential to create a uniquely severe environment, as defined by AWWA C105 Appendix A. In these rare circumstances, polyethylene encasement is NOT advisable.

2. Electrically insulate underground iron pipe from dissimilar metals and from above ground iron pipe with insulating joints per NACE SP0286.

3. Bond all nonconductive type joints for electrical continuity. Electrical continuity is necessary for corrosion monitoring and cathodic protection.

4. Install corrosion monitoring test stations to facilitate corrosion monitoring and the application of cathodic protection:

a. At each end of the pipeline.

b. At each end of any casings.

c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.

5. Apply cathodic protection to cast and ductile iron piping as per NACE SP0169.

Copper Tubing

Implement *all* the following measures:

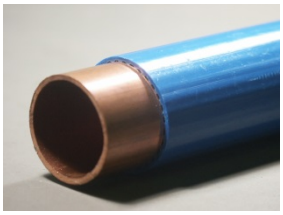
1. Electrically insulate underground copper pipe from dissimilar metals and from above ground copper pipe with insulating devices per NACE SP0286.

2. Electrically insulate cold water piping from hot water piping systems.

3. Protect buried copper tubing by one of the following measures:

   a. Prevention of soil contact. Soil contact may be prevented by placing the tubing above ground or encasing the tubing using PVC pipe with solvent-welded joints.

   b. Installation of a factory-coated copper pipe with a minimum 25-mil thickness such as Kamco's Aqua Shield™, Mueller's Streamline Protec™, or equal. The coating must be continuous with no cuts or defects.



   c. Installation of 12-mil polyethylene pipe wrapping tape with butyl rubber mastic over a suitable primer. Protect wrapped copper tubing by applying cathodic protection per NACE SP0169.

Plastic and Vitrified Clay Pipe

1. No special precautions are required for plastic and vitrified clay piping placed underground from a corrosion viewpoint.

2. Protect all metallic fittings and valves with wax tape per AWWA C217 or epoxy.

All Pipe

1. On all pipes, appurtenances, and fittings not protected by cathodic protection, coat bare metal such as valves, bolts, flange joints, joint harnesses, and flexible couplings with wax tape per AWWA C217 after assembly.

2. Where metallic pipelines penetrate concrete structures such as building floors, vault walls, and thrust blocks use plastic sleeves, rubber seals, or other dielectric material to prevent pipe contact with the concrete and reinforcing steel.

Concrete

1. Protect concrete structures and pipe from sulfate attack in soil with a severe sulfate concentration, from 0.20 to 2.0 percent. Use ASTM C150 Type V cement, a maximum water/cement ratio of 0.45, and minimum strength of 4,500 psi per applicable code.[4,5,6]

2. Concrete structures and pipe should be protected from acid attack because soil with a very strongly acidic pH of 4.5 was found on-site. Concrete can be protected by preventing contact with the moisture in acidic soil. Contact can be prevented with an impermeable, waterproof, acid resistant barrier coatings such as Grace PrePrufe®.

Expanded Analysis

1. Because a limited number of samples were submitted for soil corrosivity analysis, recommendations are based on a worst-case scenario. However, only one of the eight submitted samples indicate extremely acidic conditions. The owner may find it advantageous to consider retesting the site more extensively in order to allow for the appropriate scaling of mitigative measures to match the corrosivity of the various regions of the site, thereby removing the alternate need of applying the worst-case recommendations to the entire site.

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[4] *2015 International Building Code (IBC) which refers to American Concrete Institute (ACI) 318 Table 19.3.2.1*

[5] *2012 International Residential Code (IRC) which refers to American Concrete Institute (ACI) 318 Table 19.3.2.1*

[6] *2013 California Building Code (CBC) which refers to American Concrete Institute (ACI) 318 Table 19.3.2.1*

Closure

The analysis and recommendations presented in this report are based upon data obtained from the laboratory samples. This report does not reflect variations that may occur across the site or due to the modifying effects of construction. If variations appear, HDR should be notified immediately so that further evaluation and supplemental recommendations can be provided.

HDR's services have been performed with the usual thoroughness and competence of the engineering profession. No other warranty or representation, either expressed or implied, is included or intended.

Please call if you have any questions.

Respectfully Submitted,
HDR Engineering, Inc.

James Keegan

Greg Frost, PE

Enc: Table 1

17-0311SCS SCS JK-GF Rev02.docx

M. J. Schiff & Associates, Inc.

Consulting Corrosion Engineers - Since 1959

1308 Monte Vista Avenue, Suite 6
Upland, CA 91786-8224
Phone: 909/931-1360

Table 1 - Laboratory Tests on Soil Samples

Howard Taft High School, Los Angeles, CA
Your #70131-2-0058.0002, MJS&A #02-0312HQ
1-Apr-02

Sample ID			Boring 1 @ 10' Silty clay	Boring 2 @ 7' Silty Clay	Boring 3 @ 19' Siltstone
Resistivity		**Units**			
as-received		ohm-cm	680	690	1,300
saturated		ohm-cm	540	575	760
pH			6.9	5.7	4.5
Electrical Conductivity		mS/cm	0.76	1.13	0.59
Chemical Analyses					
Cations					
calcium	Ca^{2+}	mg/kg	561	1,784	441
magnesium	Mg^{2+}	mg/kg	153	370	85
sodium	Na^{1+}	mg/kg	260	89	143
Anions					
carbonate	CO_3^{2-}	mg/kg	ND	ND	ND
bicarbonate	HCO_3^{1-}	mg/kg	95	67	ND
chloride	Cl^{1-}	mg/kg	295	25	65
sulfate	SO_4^{2-}	mg/kg	2,019	5,834	1,605
Other Tests					
ammonium	NH_4^{1+}	mg/kg	4.3	35.9	14.9
nitrate	NO_3^{1-}	mg/kg	1.3	3.1	1.6
sulfide	S^{2-}	qual	na	Pos.	na
Redox		mv	na	-5	na

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed

Table 2 - Laboratory Tests on Soil Samples

AMEC E&I
LAUSD-Taft School
Your #4953-11-1001, HDR|Schiff #11-0838LAB
19-Aug-11

Sample ID			1 @ 1'-5' Fill - SM	2 @ 5'-7' Fill-ML/CL
Resistivity		**Units**		
as-received		ohm-cm	15,600	31,200
saturated		ohm-cm	2,480	640
pH			8.1	6.9
Electrical Conductivity		mS/cm	0.14	2.17
Chemical Analyses				
Cations				
calcium	Ca^{2+}	mg/kg	87	1,837
magnesium	Mg^{2+}	mg/kg	15	586
sodium	Na^{1+}	mg/kg	73	138
potassium	K^{1+}	mg/kg	14	266
Anions				
carbonate	CO_3^{2-}	mg/kg	6.0	ND
bicarbonate	HCO_3^{1-}	mg/kg	206	119
fluoride	F^{1-}	mg/kg	2.5	6.3
chloride	Cl^{1-}	mg/kg	2.3	13
sulfate	SO_4^{2-}	mg/kg	77	6,803
phosphate	PO_4^{3-}	mg/kg	2.3	ND
Other Tests				
ammonium	NH_4^{1+}	mg/kg	ND	12
nitrate	NO_3^{1-}	mg/kg	5.4	11
sulfide	S^{2-}	qual	na	Trace
Redox		mV	na	83

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed

Table 3 - Laboratory Tests on Soil Samples

AMEC Foster Wheeler
LAUSD Taft
Your #4953-17-0421, HDR Lab #17-0311SCS
10-May-17

Sample ID			1 @ 1 to 5	3 @ 1 to 5'	2 @ 1 to 5
Resistivity		**Units**			
as-received		ohm-cm	3,600	2,920	1,000
saturated		ohm-cm	760	1,400	960
pH			7.7	7.6	7.2
Electrical Conductivity		mS/cm	0.49	0.08	0.07
Chemical Analyses					
Cations					
calcium	Ca^{2+}	mg/kg	74	20	20
magnesium	Mg^{2+}	mg/kg	11	6.4	5.7
sodium	Na^{1+}	mg/kg	172	58	66
potassium	K^{1+}	mg/kg	50	5.4	7.0
Anions					
carbonate	CO_3^{2-}	mg/kg	ND	ND	ND
bicarbonate	HCO_3^{1-}	mg/kg	146	186	116
fluoride	F^{1-}	mg/kg	12	11	12
chloride	Cl^{1-}	mg/kg	24	ND	ND
sulfate	SO_4^{2-}	mg/kg	788	21	26
phosphate	PO_4^{3-}	mg/kg	1.6	2.1	4.0
Other Tests					
ammonium	NH_4^{1+}	mg/kg	ND	ND	ND
nitrate	NO_3^{1-}	mg/kg	31	ND	ND
sulfide	S^{2-}	qual	na	na	na
Redox		mV	na	na	na

Resistivity per ASTM G187, Cations per ASTM D6919, Anions per ASTM D4327, and Alkalinity per APHA 2320-B.
Electrical conductivity in millisiemens/cm and chemical analyses were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed

431 West Baseline Road · Claremont, CA 91711
Phone: 909.962.5485 · Fax: 909.626.3316

Appendix F

Phase I Environmental Site Assessment

September 19, 2017 | Phase I Environmental Site Assessment

William Howard Taft High School Modernization Project

5461 Winnetka Avenue, Woodland Hills, California 91364

Prepared for:

Los Angeles Unified School District
Contact: Contact Patrick Schanen
Environmental Health Manager
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Project Number:
LASD1-32.3

Prepared by:

PlaceWorks
700 S. Flower Street, Suite 600
Los Angeles, California 90017
213.623.1443
info@placeworks.com
www.placeworks.com

PLACEWORKS

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Executive Summary

The Los Angeles Unified School District (LAUSD) retained PlaceWorks to conduct a Phase I Environmental Site Assessment (Phase I ESA) for William Howard Taft High School (Taft HS), located at 5461 Winnetka Avenue, Woodland Hills, California 91364 (the "Site"). The Phase I ESA was completed as part of LAUSD's due diligence to support proposed modernization activities at the Site.

The Site is located in the neighborhood of Woodland Hills within the City and County of Los Angeles (See Figure 1). The Site is bordered on the north by Ventura Boulevard, a row of commercial properties, and the Ventura Freeway (101), and to the east by Winnetka Avenue and then a commercial mall and Thoreau High School. Del Moreno Drive and then commercial (along Ventura Blvd) and residential properties border the Site to the west, and on the south the Site is bordered by Santa Rita Road and residential properties. Figure 2 illustrates this further. The Los Angeles County Tax Assessor uses parcel number (APN) 2166-042-902 to identify the approximately 29-acre Site. Figure 3 was created from the Assessor Parcel Map for the Site.

The Site is currently developed as a high school campus with an Administrative Building, Classroom Buildings ("A" through "G"), Industrial Arts/Weight Room Building ("H"), Gymnasium, Athletic Stadium (Goetten Field), basketball courts and tennis courts, a baseball diamond, several "portable" classroom and miscellaneous buildings, parking lots, and walkways and landscaped areas.

The Site was used as early as 1928 for a crop that was bailed (likely straw or hay). A windrow of trees and an attraction that brought cars to the Site was present in 1952. Taft HS opened in 1960. An aerial photograph from 1964 illustrates that main structures of the campus have remained generally the same through the date of the Site inspection (June 2017).

Historical information from two service station with the USTs removed, a former service station that became a commercial building containing a former dry-cleaners, and the location of a dry -cleaners for the past 50 years (including currently) was reviewed and dismissed from further consideration as having the potential to have environmentally impacted the Site. Additional sites were identified between 0.25 and 1.0 mile of the Site in the EDR® Report (2016g). None of the off-site properties within 1 mile of the Site, including the above LUST sites, poses a significant environmental concern based on one or more of the following rationale: 1) their distance from the Site; 2) their downgradient location with respect to the assumed uppermost groundwater flow direction; 3) the absence of reported spills or releases; 4) the nature of any reported releases (e.g., contamination confined to soil media, no identified groundwater impacts, etc.); and/or 5) their regulatory status (e.g., case closed and "no further action" required)..

This Phase I ESA was performed in substantial conformance with the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E 1527-13), approved November 1, 2013. As part of its scope of work, PlaceWorks obtained and evaluated a report from EDR® that identified agency-listed sites of potential environmental interest within 1 mile of the

Site. Additionally, we contacted regulatory agencies, conducted agency file reviews, researched sources of historical information (e.g., Sanborn fire insurance maps, aerial photographs, topographic maps, city directories, etc.), and conducted an inspection of the Site.

It is PlaceWorks' professional opinion that an appropriate level of inquiry has been made into previous activities and uses of the Site in an effort to protect future occupants from significant exposures to hazardous substances. No Recognized Environmental Conditions (RECs) were identified in connection with the Site except for the following (recommendations included):

- **Historical Herbicide Uses** – LAUSD's prior practice of applying herbicides containing arsenic prior to the placement of asphalt concrete (AC) pavement may have left elevated concentration of arsenic in shallow soil. Prior to the removal of any AC pavement shallow (36-inch maximum) soil samples should be collected and analyzed for arsenic.

- **Storage of Petroleum Products** – Containers of gasoline for on-Site use are stored in a room within the Utility Buildings (see Photo 32 and Figures 5 and 6) and in the tanks of the gasoline powered equipment stored in the Gardeners Shed (see Photo No. 10). Both of these locations have no secondary containment. If a project is proposed to remove the Utility Building or Gardener's Shed, shallow (15-foot maximum) soil and soil vapor samples should be within or near each location and analyzed for total petroleum hydrocarbons with carbon chain speciation (TPH-cc).

- **Industrial Wastewater** – A three-stage clarifier is located underneath the arcade on the east side of the former Industrial Arts (Auto Shop) Building/current weight room (See Photo 28 and Figure 6). If a project is proposed within 25 feet of the clarifier, shallow (20-foot maximum) soil and soil vapor samples should be collected within 5 feet of the clarifier and analyzed for Title 22 metals, volatile organic compounds (VOCs) and TPH-cc. total petroleum hydrocarbons with carbon chain speciation

- **Potential Hydraulic Lifts** – Two bays with roll up doors are present on the east side of the former Industrial Arts (Auto Shop) Building/current weight room (See Photo 27 and Figure 6). This makes it likely that two interior hydraulic lifts were formerly present in this building. The floor is covered and no records were found documenting the removal of any hydraulic hoists. If a project proposes to place new flooring or remove the Industrial Arts (Auto Shop) Building/current weight room, all of existing flooring should be removed down to the concrete slab and inspected for signs of hydraulic hoist. If signs exist (e.g. sawcuts in the slab, concrete of different tint/finish, etc.) then a geophysical survey should be completed to determine if the hoist(s) is/are still present under the slab. If no signs are present, no further investigation is recommended. If the results of the geophysical survey support the hydraulic hoist(s) may still be present, then the concrete should be removed and the soil beneath it removed to explore for the hoist(s). Should the presence of a lift be confirmed, it should be removed in accordance with all current laws, regulation, and guidelines. If the geophysical survey indicates no signs of a hydraulic lift, shallow (15-feet maximum) soil samples should be collected from beneath the center of the "patch" and analyzed for PCBs and TPH-cc.

- **Historical Agricultural Use** – Historical aerial photographs and a client-supplied partial plot plan of the southwestern portion of the Site indicates that agricultural buildings and potential plots for planting were/are present in the southwestern portion of the Site (see Figure 7). Pesticides and herbicides may have been used for insect and weed control during this period of time. Organochlorine pesticides (OCPs) were first introduced into California agriculture in 1944 and reached peak usage in the 1960s. Arsenic in the form of arsenical herbicides has been applied to many agricultural properties and elevated levels of arsenic have been reported in the evaluation of these properties. If a project is proposed in the southwestern portion of the Site, then shallow (36-inch maximum) soil samples should be collected from biased and unbiased locations for OCPs.

- **Exterior Soil Contamination from Lead Based Paint (LBP) and Termiticides–** The primary buildings at the Site were constructed prior to 1964 and, therefore, the exposed soil around these buildings may contain elevated concentration of lead from LBP. In addition, exposed soil around any timber structures of this vintage may contain elevated concentration of OCPs from former termiticide applications. If any projects are proposed that remove any building that can't be documented to have been placed after the mid-1970s, then exposed soil within 25 feet of the structure should tested in accordance with DTSC's June 9, 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.*

- **Radon Gas –** The Site is located within a ZIP code where approximately one-third of the samples collected and analyzed by the CDPH for radon gas exceed the US EPA's action level of 4.0 pCi/l. If any projects are proposed to remove and replace any building that has not had its lowest level tested for radon gas, that lowest level should be tested. If a new building is proposed in a location with no prior construction, then the lowest level of the closest building should be tested. In either case, the proposed building should be designed and constructed with appropriate radon-resistant features (e.g. depressurization and venting).

- **LBP and Asbestos-Containing Building Materials (ACBM)** – The primary buildings at the Site were constructed prior to 1964 and, therefore, may contain LBP and/or ACBM. If any projects are proposed that remove any structure which the presence or absence of LBP and/ACBM has not been completely documented, then additional surveys should be completed until the location of all such materials have been identified. All materials with LBP and ACBM must be abated in accordance with all laws, regulation, and guidance prior to the demolition of the structures.

1. Introduction

1.1 PROJECT BACKGROUND

The Los Angeles Unified School District (LAUSD) retained PlaceWorks to conduct a Phase I Environmental Site Assessment (Phase I ESA) for William Howard Taft High School (Taft HS), located at 5461 Winnetka Avenue, Woodland Hills, California 91364 (the "Site"). The Phase I ESA was completed as part of LAUSD's due diligence to support proposed modernization activities at the Site.

1.2 OBJECTIVES

The primary objective of the Phase I ESA was to identify historical and/or current activities that resulted in, or potentially could have resulted in, environmental impairment to the Site through the release of hazardous substances (including petroleum compounds) to soil, soil vapor, groundwater, or surface water. Both on-site and off-site sources of potential environmental concern were considered. The possible presence of naturally-occurring hazardous materials, such as methane or radon, was also evaluated. Potentially hazardous environmental conditions, if identified, generally warrant additional investigation and/or a cleanup response.

1.3 SCOPE OF SERVICES

This Phase I ESA was conducted under the terms and conditions of PlaceWorks' proposal to LAUSD, dated May 30, 2017. The scope of services was performed in substantial conformance with the United States Environmental Protection Agency (USEPA) *Standards and Practices for All Appropriate Inquiries* (40 CFR 312), the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E 1527-13), and ASTM *Standard Practice for Vapor Encroachment Screening on Property Involved in Real Estate Transactions* (E 2600-15). Tasks undertaken for this assignment include the following:

- Visual observation of Site conditions and nearby land uses to evaluate the nature and type of activities that have been or are being conducted, particularly with respect to the potential for release of hazardous substances or petroleum products.

- Review of Federal, State, and local environmental database information within ASTM-specified distances from the Site using a private database service to access records.

- Solicitation and review of public agency environmental files pertaining to the Site and nearby properties with the potential to impact the Site.

- Acquisition and review of historical fire insurance maps, topographic maps, aerial photographs, and city-directory listings relevant to the Site and surrounding area.

- Research of the Site's physical setting (e.g., geology, hydrogeology, etc.) using topographic maps and other publicly available resources.
- Interpretation of information and data assembled as a result of the above tasks and formulation of conclusions regarding the potential presence and impact of recognized environmental conditions (RECs), as defined by the ASTM E 1527-13 standard.

Limitations of this Phase I ESA are discussed in Section 9.1.

2. Site Description

2.1 SITE LOCATION AND DESCRIPTION

The Site is located in the neighborhood of Woodland Hills within the City and County of Los Angeles (See Figure 1). The Site is bordered on the north by Ventura Boulevard, a row of commercial properties, and the Ventura Freeway (101), and to the east by Winnetka Avenue and then a commercial mall and Thoreau High School. Del Moreno Drive and then commercial (along Ventura Blvd) and residential properties border the Site to the west, and on the south the Site is bordered by Santa Rita Road and residential properties. Figure 2 illustrates this further. The Los Angeles County Tax Assessor uses parcel number (APN) 2166-042-902 to identify the approximately 29-acre Site. Figure 3 was created from the Assessor Parcel Map for the Site.

2.2 CURRENT SITE USES AND IMPROVEMENTS

The Site is currently developed as a high school campus with an Administrative Building, Classroom Buildings ("A" through "G"), Industrial Arts/Weight Room Building ("H"), Gymnasium, Athletic Stadium (Goetten Field), basketball courts and tennis courts, a baseball diamond, several "portable" classroom and miscellaneous buildings, parking lots, and walkways and landscaped areas.

2.3 DESCRIPTION OF ADJACENT OFF-SITE PROPERTIES

Based on observations during the Site reconnaissance, land uses for the properties that immediately border the Site are shown on Figure 4 and explained below.

North Ventura Boulevard, then a row of commercial properties (west from the northwest corner of Ventura Blvd and Winnetka Avenue; a former gas station, two hotels and a medical plaza), and then the Ventura Freeway (101)

East Winnetka Avenue and then a commercial mall anchored by a Ralph's grocery store (southeast corner of Ventura Blvd and Winnetka Avenue), and Thoreau High School (northeast corner of Winnetka Avenue and Santa Rita Street).

South Santa Rita Road and then residential properties (single family dwellings)

West Del Moreno Drive and then commercial (two separate multi-story office buildings over parking southeast corner of Ventura Blvd and Del Moreno Drive) and then residential properties for the more southerly portion.

The community that surrounds the Site currently is an urban mix of residential and commercial development, mostly comprised of single family homes.

3. Environmental Setting

3.1 TOPOGRAPHY

The Site and vicinity are depicted on the 2012 United States Geologic Survey (USGS) Canoga Park, California 7.5 Minute Quadrangle. The geographic coordinates for the approximate center of the Site are 34° 10' 9" North Latitude and -118° 34' 20" West Longitude. The Site lies at an approximate elevation of 848 feet above mean sea level (msl). The topography in the vicinity of the Site is generally contains hills to the west and then flows from south to north across the Site. Slopes from the western portions of Ventura Blvd and Santa Rita Street, all of Del Moreno Drive, are present down to the Site. This slope is highest at the northeast corner of Del Moreno Drive and Santa Rita Street.

3.2 GEOLOGY

The Site is located on the southern margin of the San Fernando Valley within the Transverse Ranges Geomorphic Province. The Transverse Ranges Geomorphic Province extends approximately 320 miles eastward from Point Arguello and San Miguel Island to the mountains of Joshua Tree National Park and is characterized by predominantly east-west trending mountains, faults and folds (Norris and Webb 1990). The San Fernando Valley is an alluvial valley in the south-central portion of the Transverse Ranges. The property itself sits atop Holocene and late Pleistocene alluvium (Yerkes and Campbell 2005).

3.3 HYDROGEOLOGY

The Site is situated within the southwestern portion of the San Fernando Valley, near the base of the convergence of the Santa Monica Mountains and the Chalk Hills. The San Fernando Valley is an alluvial plain that deepens toward the east and may reach 1,000 feet depth near the eastern end of the basin. The Site is located within the San Fernando Groundwater Basin of the Los Angeles-San Gabriel Hydrologic Unit. The San Fernando Basin, which occupies the entire valley south of the town of San Fernando, has a surface area of 96,200 acres, and is separated from other basins by a fault zone to the northeast, and the Santa Monica Mountains to the south.

The depth to groundwater in the vicinity of the Site is estimated to be approximately 10 feet below ground surface (bgs), based on well measurements from across Ventura Boulevard (ETIC Engineering, Inc., 2009). Groundwater is expected to flow in a northeasterly direction (ETIC Engineering, Inc. 2009).

3.3.1 Groundwater Supply Wells

The EDR GeoCheck® Physical Setting Source Addendum was unable to locate any groundwater supply wells within 1.25 miles of the Site.

The Los Angeles County Department of Public Works (LACoDPW) Groundwater Wells website was searched to obtain additional information regarding groundwater supply wells in the vicinity of the Site. Data for one groundwater production well located about 1.5 miles east of the Site is summarized below.

GROUNDWATER WELLS WITHIN 1.5 MILES OF THE SITE

Well ID	Distance/Direction from Site	Ground Surface Elevation (ft msl)	Most Recent Groundwater Depth (ft bgs)	Most Recent Groundwater Elevation (ft bgs)	Date Measured
3653	1.5 miles E	813.90	28.90	785.00	12/3/2009

Water is supplied to the Site by the City of Los Angeles via municipal supply lines and hookups.

3.4 SURFACE WATER

According to the United States Geologic Survey (USGS), 7.5-minute series "Canoga Park, California" quadrangle (1967), the nearest surface water body is an unnamed east/west portion of the Los Angeles River, located approximately 1.5 miles north of the Site. The Encino Reservoir is located approximately 3.5 miles east-southeast of the Site.

Several inlets spread throughout the Site convey water into pipes and discharge to the surrounding streets or storm drain pipes

3.5 SENSITIVE RECEPTORS AND ECOLOGICAL FEATURES

The EDR Geocheck® Report identified that the tip of a north/south running riverine wetland is within ¼ mile of the Site. The wetland runs to the stretch of the Los Angeles River located north of the Site. A check of the United States Fish and Wildlife Wetland Mapper website (FWS, 2017) characterized this wetland as follows:

- 3.42 acres, Riverine System (includes artificial channels), intermittent flow, streambed, temporarily flooded, with a man-made bottom.

Otherwise, the Site is located within an area that has been highly developed and urbanized for several decades. As such, sensitive environmental receptors such as wetlands or endangered species are not present on or near the Site. The Site and surrounding neighborhood do not readily support threatened or endangered species or their critical habitat, and there does not appear to a significant pathway of exposure to ecologically sensitive species.

Sensitive human receptor locations within ¼ mile of the Site include three child care facilities, one preschool, and two schools (counting the Site). These locations can be found on the Detail Map included in the EDR Agency Research Report (Appendix H).

3.6 POTENTIAL OIL FIELD ISSUES AND METHANE HAZARDS

The EDR Physical Setting Addendum (Appendix H) indicates that there are no oil/gas wells located within one mile of the Site: On-line maps prepared by the California Department of Conservation -- Division of Oil, Gas, and Geothermal Resources (DOGGR, 2017) were also reviewed to determine whether petroleum exploration and/or production have occurred on or near the Site.

According to the on-line DOGGR maps, the Site is not located within an oil field and no oil or gas wells are located on the Site. The nearest well to the Site is a wildcat well located approximately 1.6 miles south-southeast of the Site, near Vanalden and Greenbriar in the Braemar Housing Tract. The well is recognized as #1 (API #03705801) with an Operator of Richgrove Oil Co. A *Memorandum of Closing Well Record* filed on June 21, 1977 documented that the well could not be found and classified the well as "Deserted". A December 16, 1921 *Notice of Test of Water Shut-off* the well is 476 feet deep and is plugged or bridged from 220 to 250 feet below ground surface.

According to the on-line DOGGR maps, the Site is not located within an oil field. The nearest oil field is the abandoned Pacoima Oil Field located approximately 9-1/4 miles to the north-northeast, according to the DOGGER website.

The City of Los Angeles identifies properties they have determined to be in either a *Methane Buffer Zone* or *Methane Zone*. Per their Zoning and Map Access System (Zimas, 2017) website, the Site is not in either of these zones.

3.7 OTHER POTENTIAL SAFETY HAZARDS

Other potential safety hazards that could impact the development of the Site for a school are reviewed below:

- Earthquake Faults – The Site is not located within the boundaries of a designated Alquist-Priolo special study zone. The nearest fault zone identified in accordance with the Alquist-Priolo Earthquake Fault Zoning Act is located approximately 4 miles northeast of the Site (Hart and Bryant, 2002). The Site is not located within an identified earthquake fault zone as defined by the Alquist-Priolo Earthquake Fault Zoning Act.

- Liquefaction and Landslide Zones – Geologic limits that are generally susceptible to liquefaction include late Quaternary alluvial and fluvial sedimentary deposits and artificial fill, which include areas where depth to groundwater is 40 feet or less (California Department of Conservation, 1997). The area of the Site is composed of young alluvium (Qyf2), which has a high susceptibility to surface liquefaction where historical groundwater levels have been more than 40 feet of the surface. Based on a review of the Canoga Park Quadrangle of the State of California Seismic Hazard Zones Map (California Department of Conservation, 1998), the Site is located within an area where historic occurrence of liquefaction, or local topographic, geological, geotechnical or groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required. Earthquake-induced landslide zones were delineated by Department of Conservation, Division

of Mines and Geology using criteria adopted by the California State Mining and Geology Board. Earthquake-induced landslide hazard zones are defined as areas that have been identified having experienced landslide movement in the past, or areas where the geologic and geotechnical data analyses indicate that the earth materials may be susceptible to earthquake-induced slope failure. The Seismic Hazard Zones Map for the Canoga Park Quadrangle indicates that the Site is in the vicinity of areas characterized for the potential for a landslide (California Department of Conservation, 1998).

- Flooding – According to the Federal Emergency Management Agency flood insurance rate map prepared for Los Angeles County (FEMA, 2008; flood map number 06037C1290F), the Site does not lie within a flood inundation zone. The Site lies within an area designated as Zone X, which is defined as "an area determined to be outside the 0.2% annual chance floodplain." According to the City of Los Angeles (ZIMAS, 2017), the Site is not located within a Flood Zone.

- Airports – No airports are present within 2 miles of the Site. The nearest airport is Van Nuys Regional Airport, which is located approximately 5 miles west, northwest of the Site (airnav.com).

- Hazardous Pipelines – According to the National Pipeline Mapping System, no hazardous liquid or gas transmission pipelines border the Site (NPMS, 2017). The nearest pipeline is an east/west natural gas line located on the north side of Highway 101 approximately 1/3-mile north of the Site.

4. Historical Document Review

4.1 AERIAL PHOTOGRAPHS

Historical aerial photographs of the Site and surrounding area were obtained from Environmental Data Resources, Inc., (EDR®) for the period 1928 to 2012 (EDR 2017a). The EDR® aerial photograph service includes a search of local public and private aerial photograph collections that include photographs acquired and made available by the USGS, the United States Department of Agriculture (USDA) National Agriculture Imagery Program, and other collections. The photographs were reviewed to identify historical features of the Site and the surrounding area. In some instances, other historical information and visual observations from the Site reconnaissance were consulted to help identify features of potential interest. Interpretations of Site features and conditions based on the aerial photograph review are summarized below; copies of photographs are provided in Appendix A:

1928 – Site: The Site appears to be developed for agricultural uses (grass crops). A small dirt road trending west-southwest to east-northeast is apparent on the northeast portion of the Site. Ephemeral drainages are visible transecting the Site, draining toward the north and northeast. A hill is located on the south portion of the Site.

Off-Site: Ventura Blvd. is located to the north-northwest of the Site. Structures which may have been farm buildings are visible east of the Site, along with some dirt roads. A new orchard is apparent to the northeast, across Ventura Blvd., and to the west another orchard is visible across Ventura Blvd.

1938 – Site: Three clusters of small white rectangles (likely hay bales) are evident in the aerial. Most of the ephemeral drainages are no longer apparent. The remainder of the Site, including the hill on the southern portion, appears relatively unchanged in comparison with the 1928 aerial photograph.

Off-Site: Additional clusters of small white rectangles (likely hay bales) are evident surrounding the Site. With the exception of an orchard located northeast of the Site, the adjoining properties appear relatively unchanged in comparison with the 1928 aerial photograph.

1947 – Site: The white rectangles ae gone and the Site appears relatively unchanged in comparison with the 1938 aerial photograph.

Off-Site: Part of Ventura Blvd. northwest of the Site was realigned (more linear). Residential dwellings are visible east and south, southeast of the Site.

1952 – Site: A windrow of trees transects the eastern portion of the Site. Parked cars are visible on the northeast corner of the Site.

Off-Site: An east/west windrow of trees is visible south of the eastern portion of the Site. Additional residential dwellings are visible northeast, east, and southeast of the Site. Winnetka Avenue exists north of Ventura Blvd.

1964 – Site: The Site is developed with Taft High School. The Site appears to have been graded, as the hill on the south portion of the Site and the ephemeral drainages are no longer apparent.

Off-Site: Extensive residential development is visible to the north, south and east of the Site. U.S. 101 Freeway is visible north of the Site, opposite and roughly parallel with Ventura Blvd. Del Moreno Drive is visible to the west of the Site, and Santa Rita Street is visible to the south of the Site. A shopping center is located east of the Site, at the southeast corner of Ventura Blvd. and Winnetka Avenue. A possible gas station is located at the northeast corner of Ventura Blvd. and Winnetka Ave; otherwise the land west of Winnetka Avenue between Ventura Blvd and the U.S. 101 Freeway is vacant. The orchard located northeast of the Site is now gridded with streets and some residential structures ae apparent.

1967 Site: Nine structures (likely portable classrooms) are apparent on the northeast corner of the Site. The remainder of the Site appears relatively unchanged in comparison with the 1964 aerial photograph.

Off-Site: Additional residential dwellings and graded land are visible west of the Site. Two additional structures are apparent at the northwest corner of Winnetka Avenue and Ventura Blvd (possible gas pump canopies). A commercial building is in the 20400 block of Ventura Blvd (between the 101 Freeway and Ventura Blvd).

1972 Site: The portable classrooms are no longer visible on the northeast corner of the Site as this area has been turned into a parking lot. The remainder of the Site appears relatively unchanged in comparison with the 1967 aerial photograph.

Off-Site: Commercial development is apparent north of the Site, opposite Ventura Blvd. Another possible gas station is located northeast of the Site, across Ventura Blvd. and Winnetka Ave. The footprint of main structure at the northwest corner of Winnetka Avenue and Ventura Blvd has changed, while the two newer structures (canopies) remain the same.

1977 Site: The Site appears relatively unchanged in comparison with the 1972 aerial photograph.

Off-Site: Commercial development is apparent north of the Site, opposite Ventura Blvd. Another possible gas station is located northeast of the Site, across Ventura Blvd. and Winnetka Ave. The footprint of the main structure at the northwest corner of Winnetka Avenue and Ventura Blvd has changed, while the two later structures have remained the same. The remaining adjoining properties appear relatively unchanged in comparison with the 1967 aerial photograph.

1981 Site: The Site appears relatively unchanged in comparison with the 1977 aerial photograph.

Off-Site: Additional development has occurred along Ventura Blvd to the north and south. The remaining adjoining properties appear relatively unchanged in comparison with the 1977 aerial photograph.

1983 Site: The Site appears relatively unchanged in comparison with the 1981 aerial photograph.

Off-Site: Office buildings are apparent west of the Site along Ventura Blvd. The remaining adjoining properties appear relatively unchanged in comparison with the 1983 aerial photograph.

1989 Site: Five structures (likely portable classrooms) are visible on the southwest portion of the Site.

Off-Site: Office buildings are apparent west of the Site along Ventura Blvd. The potential gas station at the northwest corner of Ventura Blvd. and Winnetka Ave. has been reconfigured and matches the current configuration. The other potential gas station at the northeast corner of Ventura Blvd. and Winnetka Avenue is no longer apparent as the property is generally vacant. The remaining adjoining properties appear relatively unchanged in comparison with the 1981 aerial photograph.

1995 Site: The Site appears relatively unchanged in comparison with the 1989 aerial photograph.

Off-Site: The commercial development located at the northeast corner of Winnetka Avenue and Ventura Blvd and is complete. The remaining adjoining properties appear relatively unchanged in comparison with the 1989 aerial photograph.

2002 Site: An additional building is apparent west of the portable buildings on the southwest corner of the Site. The remainder of the Site appears relatively unchanged in comparison with the 1995 aerial photograph.

Off-Site: A structure with the same footprint as the current Extended Stay America Hotel is apparent north of the Site. The remaining adjoining properties appear relatively unchanged in comparison with the 1995 aerial photograph.

2005-2009 The Site and adjoining properties appear relatively unchanged in comparison with the 2002 aerial photograph.

2010 Site: The Site appears relatively unchanged in comparison with the 1989 aerial photograph.

Off-Site: A rectangular white rectangle is no longer present. This may be the detached car wash that is discussed further in Section 4.4. Otherwise; the adjoining properties appear relatively unchanged in comparison with the 2009 aerial photograph

2012 Site: The parking lot on the northeast portion of the Site is developed with solar panels. The remainder of the Site appears relatively unchanged in comparison with the 2010 aerial photograph.

Off-Site: The adjoining properties appear relatively unchanged in comparison with the 2010 aerial photograph.

4.2 SANBORN FIRE INSURANCE MAPS

Historical fire insurance maps that depict local land uses were requested from The Sanborn Library Collection that is owned and maintained by EDR®. These maps can provide useful information regarding residential, commercial, and industrial property uses over time. Activities of potential environmental interest often can be identified from the maps for follow-up field evaluation and records review. EDR® reported that the Site in unmapped (2017b). The EDR® Sanborn Fire Insurance Map Report is provided in Appendix B.

4.3 TOPOGRAPHIC MAPS

Historical topographic maps published by the USGS were obtained from EDR® (EDR 2017c) to help evaluate former land uses at the Site and in the surrounding neighborhood. Topographic maps were provided for years between 1903 and 2012. Observations based on these maps are summarized below; copies of the maps are provided in Appendix C.

1903 – Calabasas 15-minute Quadrangle: The Site and adjoining land are undeveloped. Ventura Blvd. is depicted, but not labeled, north of the Site.

1928 – Reseda 7.5-minute Quadrangle: Ventura Blvd is labeled and a pattern of streets is evolving (e.g. Tampa and Corbin are labeled). Several black squares are present to indicate structures off-Site, but none on-Site. Otherwise; the Site and adjoining land are unchanged in comparison with the 1903 topographic map.

1944 – Calabasas 15-minute Quadrangle: The Site is unchanged in comparison with the 1928 topographic map. Structures along additional roads are depicted to the east, northeast and southwest of the Site. Orchards are on most flat areas in every direction from the Site. A north/south drainage course is identified less than 500 feet southeast of the southeast corner of the Site.

1947 – Calabasas 15-minute Quadrangle: The Site and adjoining land are unchanged in comparison with the 1944 topographic map.

1952 – Canoga Park 7.5 Quadrangle: The Site is unchanged in comparison with the 1947 topographic map. Adjoining land to the northeast is depicted with house omission tint. Additional residential dwellings are depicted east and west, southwest of the Site. The hills west of the Site are labeled as Chalk Hills. Winnetka Avenue is present, but unlabeled, north of Ventura Blvd. The "CW Pierce School of Agr"[iculture] is identified approximately ¾ mile north of the Site.

1967 – Canoga Park 7.5-minute Quadrangle: The Site is depicted with Taft High School. Winnetka Avenue now extends south of Ventura Blvd. A shopping center is depicted east of the Site, across Winnetka Avenue. U.S. 101 is depicted north of the Site. Del Moreno Drive and Santa Rita Street are depicted, but not labeled. Additional surrounding land to the north, south, east and west is depicted with house omission tint.

2012 – Canoga Park 7.5-minute Quadrangle: Significantly less detail is shown on this map compared to the 1967 map. No development is depicted. Surrounding streets are labeled.

4.4 BUILDING PERMITS

The EDR Building Permit Report provided by EDR® (EDR 2017d) identified a single building permit for the Site address of 5461 Winnetka Avenue between 1988 and 2017. It was a September 1, 2016 "Use of Land Permit for Pumpkin Sales." The lack of permits is expected because as a public school, construction at the Site falls under the jurisdiction of the Division of the State Architect and not the Los Angeles Department of Building and Safety (LADBS).

The majority of the records for the adjoining properties are for routines items such as replacing roofing materials, installing water heaters, and completing tenant improvements. However, 20101 Ventura Blvd (northwest corner of Winnetka Avenue and Ventura Blvd.) did receive permits as follows:

- October 20, 1997 Replace 4 gas dispensers
- November 3, 1991, Leak detection system
- September 20, 2001, Repipe – no new breakers or circuits (gas station)
- September 18, 2006, Create 3 openings (6'8" X 8') at south side of car wash building
- December 20, 2007, Proposed 6'-4 X 6'-7" concrete slab with 11"-0" high screening for above ground gas vapor tank."
- July 7. 2009, Demolish Approx 15' X40' one story detached car wash; use handwrecking method, sewer cap and fence required.
- July 21, 2009, Grading Permit – Removal of Underground Storage Tank and Product piping, fill and recompaction
- July 21, 2009, Sewer Cap for Water Clarifier.

The EDR Building Permit report is included as Appendix D.

4.5 CITY DIRECTORY REVIEW

The EDR® City Directory Abstract (2017e) provides historical address listings obtained from business, city, and telephone directories for the years spanning 1920 to 2014. The search compiled information by plotting the latitude and longitude for the site of interest and obtaining data concerning properties within 1/8 mile (660 feet) of the selected location. A copy of the EDR® City Directory Abstract is provided in Appendix E. Site addresses and occupants of interest listed in the City Directory Abstract are summarized below:

4. Historical Document Review

DIRECTORY LISTINGS FOR SITE ADDRESS (5461 WINNETKA AVENUE)

Address	Occupant	Years
5461 Winnetika [sic] Avenue	Taft Willian Howa RD [sic] High	1965
5461 Winnetka Avenue	Taft High School	1980-2004
	Los Angeles Unified School District	2010-2014

Occupants with potential commercial/industrial occupants are summarized in the following table: Note that listings in the EDR Abstract with only names or businesses within apartment buildings or single family dwellings are assumed to be residences and are not included in the table.

DIRECTORY LISTINGS FOR OFF-SITE ADDRESSES OF INTEREST

Address	Occupant	Years
5429 Quakertown Avenue	Los Angeles Unified School District	2010-2014
	Thoreau High School	1985-2004
	Thorel Marcel	1991
20098 Ventura Boulevard	Coyote One Hour Photo	2004
20100 Ventura Boulevard	St Andrews Golf Fairways/Horne Sid St Andrews Golf Fairways	1950
20101 Ventura Boulevard	SJay Rays Service Garage	1965
	Retail Development Center	1975
	Mobil Oil Corporation Retail Development Centers	1976
	Mobil Service Station Dealers Van Nuys	1980
	Mobil Oil Corporation	1980-1985
	No info	2004
20120 Ventura Boulevard	No info	2004
20121 Ventura Boulevard	Woodland Hills, Stabile Realty	1975
	K West Engineering & Grading/Schindler Norman S & Associates Inc	1976
	Numerous white-collar offices (Certified public accountants, real estate agencies, financial planners, insurance, etc.)	1980-2004
20123 Ventura Boulevard	Farmers Insurance Group Agent Woodland Hills Office	1980
20137 Ventura Boulevard	Hobo Joes	1980
	Dennys Restaurant	1991-2004
20157 Ventura Boulevard	Woodland Hills	1975-1991
	Vagabond Motor Hotel Local Locations	1980
	Crites L D	1980-1991
	Red Roof Inn, Comfort Inn	2004
20205 Ventura Boulevard	Extended Stay America	2004
5460 Winnetika [sic] Avenue	Colfax Cleaners / Dyers	1965
5460 Winnetka Avenue	Bell Boy Cleaners	1980-1991
	No info	2004
5464 Winnetika [sic] Avenue	Ladds Coin-Op Cleaners	1965
5464 Winnetka Avenue	Casa De Laundry Woodland Hills	1980
5472 Winnetika [sic] Avenue	Gpay-n-s Ave Drugs	1965
5336 Winnetka Avenue	Sherwood Cndmnums Hmwners Assn	2010
	Massachi Isaac	2010-2014

DIRECTORY LISTINGS FOR OFF-SITE ADDRESSES OF INTEREST

Address	Occupant	Years
5346 Winnetka Avenue	Bell Garden	2010
	Loma Vista Investment LLC	2014
5472 Winnetka Avenue	Taft Pharmacy	1980-1995
	Corbln Village Pharmacy	1995
5550 Winnetka Avenue	Winnetka & Ventura	1975
	Hedrick Chevron/Chevron U S A Inc	1980
	Chevron Service Center	1980-1985
	C Js Pizza	1985

Note that the stores within Taft Plaza (20040 to 20060) used to have Winnetka Avenue, and not Ventura Blvd addresses. For example, Taft Pharmacy was 5472 Winnetka Avenue and is currently 20056 Ventura Blvd. In addition, Fresh Cleaners operating at 20050 Ventura Blvd is at the same location as the locations of Colfax Cleaners/Dyers and Bell Boy Cleaners; 5460 Winnetka Avenue.

In addition, the address 5550 Winnetka Avenue has changed to 20051 Ventura Blvd.

4.6 HISTORICAL USES AND OPERATIONS OF THE SITE

The following overview of the Site history is based on the review of historical aerial photographs, Sanborn maps, topographic maps, city directory searches, building permits, and on-line research.

The Site was used as early as 1928 for a crop that was bailed (likely straw or hay). A windrow of trees and an attraction that brought cars to the Site was present in 1952. Taft HS opened in 1960. An aerial photograph from 1964 illustrates that main structures of the campus have remained generally the same through the date of the Site inspection (June 2017).

4.7 HISTORICAL USES OF SURROUNDING PROPERTIES

Irrigated agricultural uses are evident to the west and northeast of the Site from at least 1928 to about 1952. Adjoining land surrounding the Site appears to have been used for grass crops from at least 1928 to about 1947. Orchards began to appear in the

A possible gas station was apparent northeast of the Site at the northeast corner of Ventura Boulevard and Winnetka Avenue from at least 1964 to about 1989. Another possible gas station was apparent at the northwest corner of Ventura Boulevard and Winnetka Avenue from 1977 to the present, although the facility appears to be currently idle and a permit to remove the USTs was pulled in 2009.

A strip mall has been located east of Winnetka Avenue since at least 1964. A dry-cleaners was located within this mall from at least 1965 to about 1991. A dry-cleaners is currently located within this mall. Single family residential has been located to the south and west of the Site since about 1964. A mixture of office buildings, and commercial development including hotels and restaurants has been located across Ventura Boulevard starting in about 1964 and expanding until about 2002 when the last parcel was no longer vacant.

5. Site Environmental Assessment

5.1 SITE INSPECTION

Mr. Carl Lotzgesell of PlaceWorks conducted a Site inspection with the assistance of Mr. Andrew Modugno of the Los Angeles Unified School District's Office of Environmental Health and Safety (OEHS) on June 27, 2017 to assess current conditions and features of potential environmental interest. A reconnaissance of the surrounding neighborhood also was conducted to identify potential activities that could impact the Site. William Howard Taft High School is located at 5461 North Winnetka Avenue, Woodland Hills, California 91364 (Site) The weather was sunny and hot at the time of the Site inspection. Site and surrounding development features are shown on Figure 4; representative photographs taken during the inspection are provided in Appendix F and referenced in the descriptions below.

The school was constructed in the late 1950s and was first opened in 1960. The Site consists of an administration building, seven permanent classroom buildings, ten portable classroom buildings, a gymnasium, a cafeteria building and several small accessory buildings (Photos 1 thru 8, 17, 18 and 27). A small utility building (Plant Manager's office and facilities storage) located to the east of the football field was used to store cleaning supplies and two drums of gasoline (used to power on-Site vehicles and equipment). The gasoline was stored in a separate flammable liquids storage room which had fresh air vents built into the walls (photos 31 and 32). A small storage shed behind the utility building which reportedly used by a full-time gardener to store equipment and chemicals. Although a flammable liquids sigh is posted on the door of the shed it is currently used to store a vintage tractor and golf cart. Several small storage rooms associated with chemistry and biology classrooms in Building C contained small amounts of various chemicals presumably used for classroom experiments. The former Industrial Arts building has been converted to regular classrooms. The heating, ventilation and air conditioning (HVAC) thermostats in the Industrial Arts building appear to be the type that uses mercury (photo 23). The two-bay automotive repair shop is currently being used as a weight room for the football team, and due to carpeting on the floor signs of in-ground hydraulic lifts were not able to be observed. A three-stage clarifier was observed outside of the building (photos 27 thru 29). A large electrical transformer enclosure containing three large transformers is located immediately south of the former auto shop building (photos 13 and 14). No evidence of releases was observed around the transformers.

Directly across Ventura Boulevard to the north at the intersection of Winnetka Avenue is a former (abandoned) Mobil gas station. To the west from the Mobil station is a three-story office building, a Denny's restaurant, a Comfort Inn Hotel and an Extended Stay America Hotel. To the east of the Mobil station (northeast corner of Ventura Blvd and Winnetka Avenue) is a commercial shopping center with various businesses including coin laundry (Suite A), a vacancy (Suite H), and an animal hospital (Suite M).

Directly across Winnetka Avenue to the east of the site is a retail center anchored by a Ralphs Grocery store, which includes a dry-cleaners (Fresh Cleaners at 20050 Ventura Blvd, photo 32). Also to the east is a large

paved area used for student parking and the portable classroom buildings that are Thoreau Continuation High School.

The southern and much of the western perimeter of the site consists of single family residences. Two small office buildings are located near the intersection of Del Moreno Drive and Ventura Boulevard.

5.2 ISSUES OF ENVIRONMENTAL INTEREST

The following issues of potential environmental interest were assessed for this Phase I ESA. The described conditions are based on a combination of information gleaned from agency records and observations during the Site inspection.

5.2.1 Chemical and Hazardous Material Handling and Storage

Significant quantities of hazardous materials or hazardous wastes were not observed during the Site inspection. However, two 55-gallon drums of gasoline are stored in the utility building. Also, small quantities of oil may leak from automobiles in the parking lot. However, the no evidence of significant spills or releases was observed.

5.2.2 Aboveground Storage Tanks

No aboveground storage tanks were observed at the Site during the inspection. Agency records provide no evidence that aboveground storage tanks were ever present at the Site.

5.2.3 Underground Storage Tanks

No underground storage tanks (USTs) were observed at the Site during the inspection, including evidence of fill ports, vent lines, or patched pavement. Agency records provide no evidence that such features were ever present, nor are they likely to have been used given historical and current land uses of the Site.

5.2.4 Drums and Totes

Two drums containing gasoline were observed in the Flammable Liquids storage room at the utility building. No other drums or large containers that could have been used for the storage of hazardous materials or hazardous wastes were observed at the Site during the inspection.

5.2.5 Naturally Occurring Hazardous Materials

Sampling for radon gas in Site buildings was not included in the Phase I ESA scope of work. However, a United States Environmental Protection Agency (USEPA, 1993) map of radon zones in California lists Los Angeles County as Zone 2, where residents may have a moderate potential of exposure to radon with average indoor concentrations ranging from 2.0 to 4.0 picocuries/liter (pCi/l). The California Department of Public Health (CDPH, 2016) tests various structures throughout California and posts the results by Zip code on their website. Based on the list updated in February 2016, the Site's Zip code, 91364, has been tested 328

times and highest concentration of the108 tests (32.9%) that exceeded 4 pCi/L was 85.8 pCi/l. Radon is considered a REC for the Site.

According to the California Division of Mines and Geology (CDMG, 2000), no naturally occurring serpentine rock or rock formations that may contain a significant quantity of asbestos are located in the greater Los Angeles area.

Because the Site is not located within or near an oil field (see Section 3.6) or other methane-generating source (e.g., a landfill, se Section 6.3.2), naturally-occurring methane or other oil field-related gases are unlikely to be present beneath the Site.

5.2.6 Polychlorinated Biphenyls (Transformers, Elevators, Lifts)

Prior to 1978, polychlorinated biphenyls (PCBs) were widely used as dielectric and coolant fluids in transformers, capacitors, and hydraulic lifts. Leaks and releases from transformers, causing PCB contamination, have been documented (DTSC, 2006) at other sites. Production of PCBs was banned in the United States by the Toxic Substances Control Act (TSCA) in 1978 due to evidence of accumulation in the environment and a link to harmful health effects. However, they continued to be allowed in "totally enclosed uses" such as transformers and capacitors, which, in certain failure modes or out-of-specification conditions, can leak, catch fire, or explode. PCBs are listed as carcinogens by the State of California.

Hydraulic lifts or elevators were not observed during the Site inspection. Hydraulic lifts may still be in the former automotive repair building, but due to carpeting on the floor of the weight room no signs were visible. There is no evidence that elevators or any such equipment would previously have been used based on historical and current land uses. A transformers enclosure (Station 403) containing three large transformers is located south of the auto shop building. No visible signs of leakage or spills were noted around the transformers. For more information on these transformers, see Section 6.3.7.

5.2.7 Asbestos

Asbestos-containing building materials (ACBM) were commonly used in a wide range of building products prior to 1976. These products included roofing shingles, composite siding, linoleum flooring, acoustic ceiling tiles, furnace and water heater exhaust piping and insulation, glues and mastics, joint compounds, and composite wallboards. The Phase I ESA scope of work did not include the performance of an asbestos survey or testing of building materials. However, given to the age of the Site buildings they could contain ACBM.

A large basement boiler room at the east end of the main Industrial Arts building contained piping and equipment with Caution Asbestos Hazardous labels posted on them (photos 25 and 26). Further inspection and testing for possible ACBM should be conducted prior to any renovation or demolition of the structures.

5.2.8 Lead-Based Paint

Lead-based plumbing and/or paints could be present in buildings constructed prior to the early 1970s, at which time lead-based paints (LBP) were phased out of production. Exposure to lead is possible if the paint is in poor condition or during demolition, maintenance or removal activities. The Phase I ESA scope of work did not include the testing of building materials. However, given to the age of the buildings at the Site, they could contain LBP. Further inspection and testing for possible LBP should be conducted prior to any renovation or demolition of the structures.

5.2.9 Fill Material and Stockpiled Soil

The Site is relatively flat with steeply sloped sides to the west and southwest (from Site up to street level). Based on a review of the historical topographical map and aerial photography at least two hills of soil would have needed to be removed to create the current Site configuration: one in the southwest corner and the other relatively at the current location of classroom buildings E, F, and G. Thus, it is much more likely that soil was exported from the Site instead of imported to the Site when the campus was built.

No soil stockpiles were observed during the Site inspection.

5.2.10 Agricultural Use

Historical aerial photographs, particularly from 1938, depict agricultural activities or suggest they were conducted at the Site. The crop appeared to have been baled (i.e. hay or straw)

5.2.11 Pesticide Application

According to the California Department of Toxic Substances Control (DTSC, 2006), organochlorine pesticides (OCPs) were commonly used for termite control around structures prior to the USEPA ban on chlordane use in 1988. OCPs gained widespread use in the late 1940s and termiticides containing chlordane, lindane, heptachlor, and aldrin (which readily converts to dieldrin) were applied or injected to soil surrounding building foundations in an effort to isolate wood structures from termite nests. In addition, large-scale agricultural activities, as well as small-scale gardening activities, may have involved the application of pesticides that are now banned, but are persistent in the environment. Given the age of the Site structures, pesticides are considered to be a REC for the Site.

A review of historical records – particularly an aerial photograph from 1938, provides some evidence that agricultural activities have occurred at the Site.

5.2.12 Stormwater Discharge and Drainage

Storm water drainage is through a network of underground piping connected to catch basins and curb gutters throughout the Site for collection and conveyance through the municipal storm drainage system. No observations of environmental concern with respect to these conditions were noted during the Site inspection.

5.2.13 Floor Drains, Sumps, and Clarifiers

A three-stage clarifier was observed next to the former auto shop. The location of this clarifier is illustrated on Figure 5. No other sumps or clarifiers were observed during the Site inspection. With the exception of the auto shop clarifier, wastewater discharges are not considered to represent a significant environmental concern.

5.2.14 Septic Systems

The construction of adjacent streets preceded development of the Site and public sewer lines were likely in place when the current buildings were constructed. Therefore, it is unlikely that septic systems were ever employed at the Site.

5.2.15 Monitoring, Water Supply, or Dry Wells

No evidence of groundwater monitoring wells, water supply wells, or dry wells was observed at the Site during the inspection or identified from agency records.

5.2.16 Pits, Ponds and Lagoons

No pits, ponds or lagoons were observed on or in the vicinity of the Site during the inspection.

5.2.17 Stained Soil, Pavement, and Concrete

Stained soil, pooled liquids, or other evidence of environmental releases were not observed during the Site inspection. The parking lot had numerous cracks, as would be expected for asphalt pavement that has been in place for an extended period of time. Minor oil stains were also observed in the parking lot, consistent with its historical use, but such releases are not considered to be of environmental concern.

5.2.18 Stressed Vegetation

Stressed or dying vegetation was not observed during the Site inspection. None of the landscape trees appeared to be stressed or in a condition that would suggest they were impacted by chemical releases.

5.2.19 Odors

Odors were not detected during the Site inspection or reconnaissance of the surrounding neighborhood.

5.2.20 Cellular Phone Towers

The Federal Communications Commission (FCC) has a website that contains all of the locations with registered antenna structures such as cellular phone towers (FCC, 2017). Per this website, no cellular phone towers are located within the zip code of the Site (91364).

5.2.21 CDE Checklist

As requested by the LAUSD OEHS, a Preliminary Environmental Screening of Proposed Project at Existing School Site checklist was completed as part of this Phase I ESA. The project reviewed for the checklist included the following elements:

- Remove two 2-story pre-fabricated classroom buildings,
- Modernize two Industrial Arts Buildings
- Remove and Replace the Administrative and Multipurpose Buildings

The California Department of Education (CDE) Checklist results indicate that the project will not create or exacerbate risks. A copy of the checklist is included in Appendix G.

5.3 PREVIOUS SITE ENVIRONMENTAL INVESTIGATIONS

No information regarding previous Site environmental investigations was located during the agency file reviews or provided by LAUSD.

6. Regulatory Agency Information

6.1 REGULATORY DATABASE RESEARCH

A search of available Federal, State, and local environmental database records for the Site and nearby properties was obtained from EDR® (2017f). In general, the databases reviewed by EDR® include facilities that generate, store, treat, or dispose of hazardous substances, as well as facilities where hazardous substance releases have contaminated soil and/or groundwater. Facilities of particular interest include those with historical or active USTs, especially in instances where the USTs have leaked. The EDR® Report meets the government records search requirements of ASTM E 1527-13; search distances were in accordance with this standard. A copy of the EDR® Report (entitled "Radius Map™ with Geocheck®") is provided in Appendix H.

6.1.1 On Site Results

The Site address (5461 Winnetka Avenue, Woodland Hills, CA) was identified in the EDR® Report on the HAZNET, EMI, and FINDS databases. HAZNET is a database that collects facility and manifest data for transport of hazardous waste. The HAZNET database indicates that five manifests for the transport of hazardous waste originated from the site: four for asbestos containing waste in 2007, 2008, 2,009, and 2015; and one for waste category not reported in 2013. The Emissions Inventory or EMI is a database that lists toxics and criteria pollutant emissions data collected by the California Air Resources Board. The site has a 1990 listing in the EMI database, which indicated that no pollutants were detected in air. The Facility Index System/Facility Registration System or FINDS database lists facility information and is maintained by the U.S. Environmental Protection Agency. The site is listed on the FINDS database because it has an EPA Identification No. (CAD982039422).

6.1.2 Off Site Results

The following off-site facilities were identified within 1.0 mile of the Site:

EDR®-LISTED FACILITIES WITHIN 1.0 MILE OF THE SITE

Name [EDR No.]	Address	Distance/ Direction (1)	Database	Environmental Issue(s)
Bell Boy Cleaners [4], [D13]	5460 Winnetka Ave (20050 Ventura Blvd)	~ 45 (258) feet east (E) downgradient	EDR Hist Cleaner	Listings from 1970 to 2014. Not listed in agency databases; no documentation of release.
Mobil 11 183 [B5]	20101 Ventura Blvd	~ 208 feet north-northeast (NNE) of Site; downgradient	EDR Hist Auto	Listings as a gasoline service station from 2002 to 2014; no releases reported.

6. Regulatory Agency Information

EDR®-LISTED FACILITIES WITHIN 1.0 MILE OF THE SITE

Name [EDR No.]	Address	Distance/ Direction (1)	Database	Environmental Issue(s)
Mobil Oil Station [B6]	20101 Ventura Blvd	~ 208 feet north-northeast (NNE) of Site; downgradient	SWEEPS UST; HIST UST; CA FID UST; CHMIRS	The facility was listed in 2012 as having a 280-gallon waste oil UST, a 6,000-gallon gasoline UST, at least one (5 separate entries) 8,000-gallon gasoline UST, a 9,940-gallon gasoline UST, an 8,000-gallon diesel UST, and a 10,000-gallon methanol UST. One-half gallon of gasoline was spilled onto the ground at the facility on June 14, 2005 when the auto shut off at the pump failed.
Mobil SMI [B7]			HIST UST	The facility was listed for historically having a 280-gallon waste oil UST installed in 1969, a 6,000-gallon gasoline UST installed in 1971, an 8,000-gallon gasoline UST installed in 1969, and a 9,940-gallon gasoline UST installed in 1969. No violations found.
Mobil 18183 [B8]			LUST; LA Co. Site Mitigation	The facility experienced a gasoline release that potentially could have impacted groundwater used for drinking water supply in 2001. The facility received case closed status from the Water Board in 2010 LA Co. Site Mitigation database indicates the facility was abated in 2010.
Mobil Service Station 183 [B9]			UST	Underground storage tank (UST) listed at the address; no release reported.
Exxonmobil Oil Corporation 11473 [B10]			RCRA-LQG	The facility was listed as a Large Quantity Generator beginning in 1999 for ignitable waste and benzene. No violations were found.
rePlanet LLC [C11]	20060 Ventura Blvd	~215 feet east-northeast (ENE) of Site; downgradient	SWRCY	The recycling facility is listed as starting operations in 2012.
Ramco Fuel & Service [12]	20350 Ventura Blvd, Suite 23	~215 feet west (W) of Site; upgradient	EDR Hist Auto	The facility was listed from 2007 to 2008 as a gasoline service station. Not listed in agency databases; no documentation of release.
Prime Cleaners [D14]	20051 Ventura Blvd, Suite H (See also 5550 Winnetka below)	393 (505) feet northeast (NE) of Site; downgradient	EDR Hist Cleaner	Listings from 1994 to 2014 (currently vacant, see Section 5.1).
Prime Cleaners [D17]			RCRA NonGen/NLR; DRYCLEANERS	The facility is listed as a location that does not presently generate hazardous waste. The facility is listed as a dry-cleaners by the EPA (created 1990, inactive 2012). No violations found.
Prime Cleaners [D18]			RCRA-SQG; FINDS; ECHO;	Small quantity generator since 1993. No violations found.

6. Regulatory Agency Information

EDR®-LISTED FACILITIES WITHIN 1.0 MILE OF THE SITE

Name [EDR No.]	Address	Distance/ Direction (1)	Database	Environmental Issue(s)
Thoreau Continuation High School [15]	5429 Quakertown Ave	852 feet east (E) of Site; downgradient	RCRA-LQG	Large Quantity Generator listing since November 14, 1989, when an unknown amount (>100 kilograms) of waste with waste code is for lead was removed from the Site. No violations were found
Bens Carpet Care [C16]	5480 Quakertown Ave	480 feet east-northeast (ENE) of Site; downgradient	EDR Hist Cleaner	Listings from 2002 to 2008 for Carpet and Upholstery Cleaning. Not listed in agency databases; no documentation of release.
Nix Auto Services [D19]	20032 Ventura Blvd	515 feet northeast (NE) of Site; downgradient	LUST; HIST CORTESE	The facility experienced a solvent or non-petroleum hydrocarbon release into groundwater potentially used for drinking supply in 1994. The facility received case closed status in 2009.
Nix Frank ARCO Service [D20]			EDR Hist Auto	The facility is listed as a gasoline service station from 1969 to 2014.
ARCO Service Station [D21]			SWEEPS UST; CAL FID UST	The Site was listed for one 250-gallon waste oil UST installed in 1988, three 4,000-gallon gasoline USTs installed in 1988, one 6,000-gallon gasoline UST installed in 1988
ARCO Service Station [D22]			HIST UST	1988 records for four USTs installed in 1960 (3 gasoline and 1 waste oil), one gasoline UST installed in 1972
Chevron Service Center [E23]	5550 Winnetka Ave	612 feet north-northeast (NNE) of Site; downgradient	SWEEPS UST; CA FID UST	The facility is listed as inactive. No further information provided.
Mac Bhupinder Singh [E24]			EDR Hist Auto	Listings from 1982 to 1988 for a gasoline service station.
Chevron Station 9 9460 [E25]			RCRA-SQG; FINDS; ECHO	Small quantity generator. No violations found. FINDS database points to ECHO entry for facility. ECHO entry points to RCRA generator status.
99460 [E26]			HIST UST	Listing for five USTs that were installed in 1979.
Chevron #9-9460 (Former) [E27]			LUST; HIST CORTESE	Leaking UST. Gasoline contaminated groundwater. Case opened in 1988; case completed and closed in 1996, per RWQCB's GeoTracker database.
Mission Carwash [F28]	20021 W Ventura Blvd	678 feet northeast (NE) of Site; downgradient	UST	Registered UST.
Woodland Hills 76 [F29]			UST	Registered UST.
Woodland Hills Nissan [F30			RCRA-SQG; FINDS; ECHO	Small quantity generator. No violations found. FINDS database points to ECHO entry for facility. ECHO entry points to RCRA generator status.
Unknown [F31]			SWEEPS UST; CA FID UST	Historical USTs. Inactive.

EDR®-LISTED FACILITIES WITHIN 1.0 MILE OF THE SITE

Name [EDR No.]	Address	Distance/ Direction (1)	Database	Environmental Issue(s)
Woodland Hills Auto (Former) [F32]	20021 W Ventura Blvd	678 feet northeast (NE) of Site; downgradient	LUST; HIST CORTESE	Leaking UST. Solvent or non-petroleum hydrocarbon contamination in groundwater. Case opened in 1992; case completed and closed in 1996, per RWQCB's GeoTracker database.
Corbin Village Cleaners [33]	19812 Ventura Blvd	0.357 mile east-northeast (ENE) of Site; downgradient	RCRA-SQG; SLIC; FINDS; ECHO; EMI; HAZNET; WDS	Small quantity generator starting in 1987. No violations found. In 2002 0.16 and 0.12 tons of waste with halogenated solvents was removed from the site. The site is contaminated with PCE in soil and groundwater, and has been undergoing remediation since 2009.
Gasoline Serv. Station Former [G34, G35]	20641 Ventura Blvd	0.390 mile west (W) of Site; upgradient	LUST HIST CORTESE	Leaking UST. Gasoline contamination in groundwater. Case opened in 1985; case completed and closed in 1996.
Oso Avenue Elementary School [36]	5724 Oso Avenue	0.425 mile northwest (NNW) of Site; cross-gradient	ENVIROSTOR; SCH	Inactive school site. Phase I submitted in 2003; only identified RECs ACBM and LBP.
Chime Charter Elementary School Expansion [37]	19722 Collier Street	0.507 mile east-southeast (ESE) of Site; downgradient	ENVIROSTOR SCH	Past land uses: agricultural orchard, livestock and row crops; PEA submitted in 2010 (February); No further action in 2010 April).
Los Angeles Pierce College [38]	6201 Winnetka Avenue	0.792 mile north northwest (NW) of Site; cross-gradient	ENVIROSTOR;	A preliminary assessment report was conducted in 1996 and a no further action determination was made. In 2016 the site was reopened, Lead and mercury contaminated soil was removed, and NFA was again issued in 2017
Pierce College [38]			GeoTracker; LUST; VCP; HIST CORTESE; NPDES	A gasoline leak was reported in 1992. The case was closed in 1996. Leaking UST. Diesel contamination in soil. Case opened in 2005. Case completed and closed in 2008. Various NPDES construction permits were active from 2010 to 2016.
Kaiser Permanente Medical Ctr [39]	5601 De Soto Ave	0.814 mile west (W) of Site; upgradient	RCRA-SQG; ENVIROSTOR; FINDS; ECHO; EMI	Small quantity generator. No violations found. Air monitoring by the South Coast AQMD has been conducted at the facility since 1987 for release of various gases, NOX, etc.

(1) Direction refers to the location of the off-site facility relative to the Site, assuming a northeasterly groundwater flow direction (also see Section 3.3.1).

A review of the EDR® Report "orphan list" found no additional properties of apparent interest with respect to the Site.

6.2 OTHER RECORD SOURCES

Various State, regional, and local environmental regulatory agencies were contacted to determine if information relevant to the preparation of this Phase I ESA was available for the Site. Information requests

were tendered for the Site address (5461 Winnetka Avenue) and the Site APN (2166-042-902). In addition, agency records were accessed and reviewed from on-line databases, where available. Information obtained from the agency information requests and on-line research is summarized in the following sections; copies of the agency correspondence and files are provided in Appendix I.

6.2.1 California Environmental Protection Agency

The California Environmental Protection Agency (CalEPA) has implemented a website that is capable of collecting and housing environmental data from many diverse sources across its Boards, Departments, and Offices and is expandable to other environmental agencies. The CalEPA Regulated Site Portal (CalEPA, 2017) provides a modern, intuitive interface allowing users to search for items of environmental interest using both geospatial (map-driven) and tabular (criteria-driven) approaches. CalEPA incorporates the following data sources:

- **CERS** – The California Environmental Reporting System was developed by CalEPA to support the reporting of information by regulated businesses and Certified Unified Program Agencies (CUPAs) pertaining to hazardous materials and hazardous waste throughout the state.

- **EnviroStor** – Developed for the Department of Toxic Substances Control, this database contains information pertaining to state and federally listed cleanup sites, along with hazardous waste permitted and corrective action facilities.

- **GeoTracker** – Developed for the State Water Resources Control Board, this database contains information about impacted groundwater sites within the state, such as leaking underground storage tanks, cleanup sites, and permitted facilities such as landfills and operating underground storage tank facilities.

- **CIWQS** – The California Integrated Water Quality System (CIWQS) was developed by the State Water Board to manage permitting, compliance and enforcement activities related to sites which discharge to surface water (or otherwise affect surface water quality) throughout the state.

- **TRI** – The Toxics Release Inventory (TRI) is a federal database that contains detailed information on nearly 650 chemicals and chemical categories that over 1,600 industrial and other facilities in the state manage through disposal or other releases, recycling, energy recovery, or treatment. The data is collected from these facilities by USEPA. The collected data is exchanged to CalEPA and updated automatically through the CalEPA exchange node.

Properties within ¼ mile of the Site (nearest to farthest) in one or more of the above databases and not presented above consist of the following:

- Taft High School, 5461 Winnetka Avenue, target property – Chemical Storage Facility (CSF), start date 7/10/2013, compliance Evaluation Inspections conducted on 4/17/2013, 5/12/2016, and 6/9/2017, no violations noted.

- Ralphs Grocery Store, 200060 Ventura Blvd, approximately 120 feet west of the Site – CSF (R-22, helium, lead acid batteries, and LPG), start date 7/10/2013; Hazardous Waste Generator, start date 7/10/2013, last inspected 8/11/2016, no violations noted.

- ACCESS Specialty Animal Hospital, 20051 Ventura Blvd, Ste I, approximately 240 feet northeast of the Site – CSF (oxygen), start date 2/7/2017.

- Veterinary Specialty Center, 20051 Ventura Blvd, approximately 240 feet northeast of the Site – CSF, start date 2/7/2017, 11 violations on 1/4/2017 for failure to prepare, submit, etc. a Hazardous materials Release Response Plan.

- Hank's Tire Service Center, 19951 W Ventura Blvd, approximately 1,100 feet east-northeast of the Site – CSF (oil, waste oil, and waste coolant), start date 7/10/2013; last evaluation 4/25/2016, no violations noted.

6.2.2 California Department of Toxic Substances Control

The California Department of Toxic Substances Control (DTSC) regulates hazardous waste in California primarily under the authority of the Federal Resource Conservation and Recovery Act of 1976 (RCRA), and the California Health and Safety Code. DTSC's responsibilities include permitting, inspection, compliance, and corrective action programs for facilities that generate, transport, or disposal of hazardous waste. This agency also oversees the investigation and cleanup of hazardous substance release sites, which are listed on its EnviroStor database. In response to a request for information, the DTSC responded that it had no records for the Site. An on-line search confirmed that the Site is not listed in the DTSC's EnviroStor database.

6.2.3 California Department of Resources Recycling and Recovery

The California Department of Resources Recycling and Recovery (CalRecycle; formerly the California Integrated Waste Management Board) administers various programs that promote waste reduction and recycling. It also regulates nonhazardous (solid) waste facilities through permitting, inspection and enforcement programs and oversees the cleanup of abandoned solid waste sites. Agency records for solid waste facilities are maintained in discrete facility permit files. CalRecycle did not begin collecting data on landfills until mid-1974 and did not begin regulating landfills until about 1977; therefore, it may not have all historical information for a given site. In response to an information request, CalRecycle indicated that it had no records for the Site.

6.2.4 South Coast Air Quality Management District

The South Coast Air Quality Management District (SCAQMD) is the air pollution control agency for all of Orange County and the urban portions of Los Angeles, Riverside, and San Bernardino counties. The SCAQMD is responsible for controlling emissions primarily from stationary sources of air pollution. Rules are adopted to reduce emissions from various sources, including specific types of equipment, industrial processes, paints and solvents, and consumer products. The SCAQMD issues permits to businesses and

industries to ensure compliance with air quality rules and conducts periodic inspections to ensure compliance with these requirements. An information request was submitted to the SCAQMD for six categories of information: permit applications, permits to operate, site inspection reports, equipment list reports, notices of violation, and asbestos notifications. In response to the request, the SCAQMD indicated that it had records for applications, permits to operate, equipment list reports, site inspection reports and asbestos records from the Site. The SCAQMD also mentioned that Notices of Violation were not found for the Site.

SCAQMD provided 82 records in response to the request. The specific records include Rule 1415 permits for air conditioning systems, installation and alterations to the boilers, site inspection records, equipment lists and asbestos records. Asbestos removal activities in various buildings throughout the campus were performed between November 2004 and January 2016.

6.2.5 Los Angeles Regional Water Quality Control Board

Los Angeles Regional Water Quality Control Board (RWQCB) records include information for several agency programs, including the Underground Storage Tank (UST) Unit, Spill Leaks Investigation and Cleanup Unit (SLIC), Well Investigation Program Unit (WIP), National Pollutant Discharge Elimination System (NPDES) Unit, and Stormwater Unit. In addition, environmental data, documents, and activity summaries for RWQCB cases are posted on the State Water Resources Control Board's (SWRCB's) GeoTracker website. In response to an information request, the RWQCB indicated that it had no records for the Site. An on-line search confirmed that the Site is not listed in the GeoTracker database.

6.2.6 Los Angeles County Department of Public Health

The Los Angeles County Department of Public Health – Public Health Investigation (PHI) Unit previously maintained records involving hazardous material inventories, business plans, waste generator permits, California Accidental Release Prevention (Cal-ARP) Program, and spills. As of July 1, 2017, all PHI record requests are handled by the Los Angeles County Fire Department (See Section 6.2.8 below).

6.2.7 Los Angeles County Department of Public Works

The Los Angeles County Department of Public Works (LACoDPW) Environmental Programs Division maintains responsibility for environmental matters related to industrial waste, underground storage tanks, clarifiers, and stormwater. In response to the information request, the LACoDPW indicated that it had no records for the Site.

6.2.8 Los Angeles County Fire Department

The Los Angeles County Fire Department-Health Hazardous Materials Division (HHMD)is part a Certified Unified Program Agency (CUPA) and maintains records involving hazardous material inventories, business plans, waste generator permits, Cal-ARP Program, and spills and conducts inspections. In response to an information request HHMD' provided the following records for the Site.

- Disposal Documents (i.e. Bill of Lading, Uniform Hazardous Waste Manifest, PBR Shipping Paper)

- Consolidated Contingency Plan from 1/3/2012 with locations of various systems, equipment, and chemicals redacted.
- Consolidated Permit for hazardous waste generation and inventory valid from 7/1/2011 through 6/30/2012.
- Health and Safety Training Form from 4/8/2013, *Environmental Guidance for Plant Managers*
- Inspection Reports from 04/17/2013 and 06/09/2017 with no violations.

6.2.9 Los Angeles County Sanitation District

The Los Angeles County Sanitation District is responsible for wastewater and solid waste programs on a regional scale, including the operation of wastewater treatment plants, solid waste landfills, energy recovery facilities, and materials recycling/transfer facilities. In response to an information request, the Los Angeles County Sanitation District the Site was outside their service area and they had no records.

6.2.10 Los Angeles City Fire Department

The City of Los Angeles Fire Department (LAFD, 2017) maintains records of inspections, investigations, polices reports etc. They maintain lists of Active and Inactive CUPA facilities for USTs, ASTs and hazardous materials and Historical USTs. The Site showed up once with a facility ID of F0013541 for active hazardous material CUPA sites. In response to an information request, the LAFD indicated they had no information on file for the Site.

6.2.11 Los Angeles Department of Water and Power

The Los Angeles Department of Water and Power (LADWP) is the largest municipal electrical utility in the nation and supplies power to approximately 1.4 million residential and business customers including the Site. The three transformers on the Site belong to LADWP. In response to an information request concerning those three transformers2001, LADWP indicated that they all had been replaced in 2001, more than 20 years after the ban on PCBs. Therefore, they are not a REC for the Site due to potential PCBs inside them.

6.2.12 Los Angeles Bureau of Sanitation

The Los Angeles Bureau of Sanitation (LABS) handles mainly trash and wastewater for City residents. The Industrial Waste Management Division (IWMD) within LABS maintain the health and safety of the public and environment while protecting the City's water reclamation plants and their byproducts, bio-solids, and treated wastewater. In response to a written request IMWD indicated permits have been issued for the Site and the Site has not received any violations in the past five years.

6.3 POTENTIAL FOR VAPOR ENCROACHMENT

The possibility that volatile organic compounds (VOCs) are present beneath the Site was evaluated using the information gathered during preparation of this Phase I ESA. The vapor encroachment screen (VES) process was consistent with a Tier 1 Screening Assessment, as outlined in ASTM Standard 2600-15, Standard Practice for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (VES Standard). The goal of conducting a VES, as established by this guidance, is to identify a potential vapor encroachment condition (VEC), which is defined as the presence or likely presence of VOC vapors in the subsurface of the target property caused by the release of vapors from contaminated soil or groundwater either on or near the property.

VOCs could be present beneath a property either as the result of past or current on-site releases of volatile chemicals or encroachment from adjacent or nearby properties via soil vapor or groundwater migration pathways. VOCs can migrate into the airspace of buildings via foundation cracks or other openings and pose a potential health risk to building occupants in a process referred to as the indoor air vapor intrusion pathway. If such conditions are known or suspected, further assessment in the form of soil vapor testing and health risk modeling is generally recommended. The most common sources of chemicals that can migrate in soil vapor are leaking underground storage tanks or discharges of hazardous materials/waste at facilities that handle petroleum hydrocarbon fuels (particularly gasoline) and organic solvents, such as service stations, dry cleaners, auto repair shops, plating shops, and laboratories.

Depending on the regulatory database that lists a property, the VES Standard recommends that neighboring properties up to 1/10 mile (528 feet) and 1/3 mile (1,760 feet) be screened for petroleum hydrocarbon chemicals of concern (COCs) and non-petroleum hydrocarbon COCs, respectively. The difference is due to the tendency of the former to attenuate near the source via natural biodegradation processes. Listing on certain databases for the target property makes it suitable for additional screening.

The first step in the VES Standard is to identify if any Sites fall into the following categories:

- Is the target property on the federal RCRA generator, institutional control/engineering control (IC/EC), and/or Emergency Response Notification System registry(ies)?
  No, no further research/investigation necessary

- Is the target property on the State or tribal registered storage tank and/or IC/EC registry(ies)?
  No, no further research/investigation necessary

- Due to petroleum hydrocarbon contamination, are any properties within 1/10 mile (528 feet) of the target property on the federal National Priority List (NPL, or State or tribal equivalent), federal Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS, or State or tribal equivalent), federal RCRA Corrective Action Report (CORRACTS), federal RCRA non-CORRACTS transfer, storage and disposal (TSD), State or tribal landfill or solid waste disposal site, State and tribal leaking storage tank (LST), State and tribal voluntary cleanup, State and tribal brownfield Sites?
  Formerly three downgradient properties had petroleum releases from USTs. The last one received closure in 2010. No further research/investigation necessary

- Due to non-petroleum hydrocarbon contamination, are any properties within 1/3 mile (1,760 feet) of the target property on the federal NPL (or State or tribal equivalent), federal CERCLIS (or State or tribal equivalent), federal RCRA CORRACTS, federal RCRA non-CORRACTS TSD, State or tribal landfill or solid waste disposal site, State and tribal LST, State and tribal voluntary cleanup, State and tribal brownfield Sites?
  Three dry-cleaners are located approximately 1/3 mile or less downgradient of the Site. The two closest have no documented releases and the one that does is a little over 1/3 mile away. None of the Dry Cleaners within 1/3 mile had a record of any releases, no further investigation/ research necessary

Based on the above, further investigation for VOCs in soil gas due to off-site sources is not warranted. The potential for past leaks to the subsurface from two on-site hazardous material storage areas are considered RECs.

6.4 USER-PROVIDED INFORMATION

ASTM E 1527-13 requires disclosure in the Phase I ESA as to whether the user of the report has specialized knowledge about previous ownership or uses of the property that may be material to identifying RECs, or whether the user has determined that the property's title contains environmental liens or other information related to environmental conditions of the property, including engineering and institutional controls and activity and use limitations (AULs), as defined by ASTM. A comprehensive lien search for title records or environmental liens are due diligence activities that normally are undertaken by the buyer prior to property transactions. The user of this Phase I ESA (i.e., Los Angeles Unified School District) has not indicated that it has specialized knowledge regarding the property that would be material to identifying RECs.

The environmental assessment package obtained from EDR® (EDR 2017g) included a screening level environmental lien and AUL search for the Site (see Appendix J). The report identified no environmental liens or AULs for the Site.

LAUSD has informed PlaceWorks that it was their standard practice to apply herbicides to the soil prior to paving. These herbicides often contained arsenic. Given the age and amount of pavement at the Site, herbicides containing arsenic are considered to be a REC for the Site.

6. Regulatory Agency Information

Documents provided by the client included the following:

- Electrical Utilities for Mechanical Buildings, Partial Part Plan, Single Line Diagram, Sheet 6 of 6, prepared by School Facilities Services, August 1996
- Part Plot Plan, Taft High School [Industrial Art, Audio Visual, and Utility Buildings and east end of stadium], Sheet 4 of 8, prepared by and date illegible
- Part Plot Plan, Taft High School [southwest portion of Site], Sheet 8 of 8, prepared by and date illegible
- Part Plot Plan, Taft High School [Industrial Arts Building "I" and other buildings southeast corner of stadium], Sheet 1-1, prepared by and date illegible

7. Potential Off-Site Issues

A review of agency records and the Site reconnaissance identified the following off-site facilities and properties of potential environmental interest with respect to the Site (in order of distance from the Site):

- 20101 Ventura Blvd (approximately 210 feet north-northeast and down gradient of the Site). This property has been a service station since at least 1964 and is currently surrounded with temporary chain link fence. A LUST investigation was initiated in 2001, USTs were removed in 2009, and case was closed in 2010. This down-gradient off-site property does not constitute a REC with respect to the Site.

- 5460 Winnetka Ave/20050 Ventura Blvd (approximately 250 feet west and downgradient of the Site). This space has likely been used consistently for a dry-cleaners since the commercial center opened in the mid-1960s. No leaks or violations are documented for this space. This down-gradient off-site property does not constitute a REC with respect to the Site.

- 5550 Winnetka Ave/20051 Ventura Blvd (approximately 400 feet northeast and downgradient of the Site). Currently a commercial shopping center with a veterinary hospital is located on this property. The address 5550 Winnetka was used when the site was a service station from at least 1977, a LUST case was opened in 1988 and closed in 1996. In 1995 the commercial shopping center was in place and a dry-cleaners occupied Suite H. No violations were found for this dry-cleaners that became inactive in 2014. Suite H is currently vacant and a coin operated laundry is located in Suite A. This down-gradient off-site property does not constitute a REC with respect to the Site.

- 20032 Ventura Blvd (approximately 520 feet northwest and downgradient of the Site). Currently this property appears to be former gas station with the dispensers removed Records indicate this property may have been a service station as far back as 1960. A solvent or non-petroleum hydrocarbon LUST case was opened in 1994 and closed in 2009. This downgradient off-site property does not constitute a REC with respect to the Site.

Additional sites were identified between 0.25 and 1.0 mile of the Site in the EDR® Report (2016g). None of the off-site properties within 1 mile of the Site, including the above LUST sites, poses a significant environmental concern based on one or more of the following rationale: 1) their distance from the Site; 2) their downgradient location with respect to the assumed uppermost groundwater flow direction; 3) the absence of reported spills or releases; 4) the nature of any reported releases (e.g., contamination confined to soil media, no identified groundwater impacts, etc.); and/or 5) their regulatory status (e.g., case closed and "no further action" required)..

8. Conclusions and Recommendations

8.1 CONCLUSIONS

PlaceWorks has performed a Phase I ESA in conformance within the scope and limitations of ASTM E 1527-13 for William Howard Taft High School, 5461 Winnetka Avenue, Woodland Hills, California. No significant data gaps were identified during the performance of the Phase I ESA. In accordance with guidance presented in the ASTM standard, the purpose of a Phase I ESA is to determine whether or not there are any recognized environmental conditions (RECs) at the Site. ASTM E 1537-13 defines a REC as follows:

> "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property (1) due to a release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimus conditions are not recognized environmental conditions."

Further guidance is provided in the ASTM standard for the identification of "historical" RECs, where past releases have been addressed to the satisfaction of the applicable regulatory authority or the property has been cleaned up to a level that allows for unrestricted land use such that the property is not subject to any controls (e.g., land use restrictions, institutional controls, or engineering controls). Finally, "controlled" RECs are defined as properties where previous releases have been addressed to the satisfaction of the applicable regulatory authority and met risk-based closure criteria, but contaminants were allowed to remain in place under certain land use restrictions or conditions.

It is PlaceWorks' professional opinion that an appropriate level of inquiry has been made into previous activities and uses of the Site in an effort to protect future occupants from significant exposures to hazardous substances. No RECs were identified in connection with the Site except for the following:

- **Historical Herbicide Uses** – LAUSD's prior practice of applying herbicides containing arsenic prior to the placement of asphalt concrete (AC) pavement may have left elevated concentration of arsenic in shallow soil. The soil underneath all areas of AC pavement is considered a REC.

- **Storage of Petroleum Products** – Containers of gasoline for on-Site use are stored in a room within the Utility Buildings (see Photo 32 and Figures 5 and 6) and in the tanks of the gasoline powered equipment stored in the Gardeners Shed (see Photo No. 10). Both of these locations have no secondary containment. A potential accidental release from either location is considered a REC.

- **Industrial Wastewater** – A three-stage clarifier is located underneath the arcade on the east side of the former Industrial Arts (Auto Shop) Building/current weight room (See Photo 28 and Figure 6). Although designed to be water tight, this clarifier is considered a REC.

- **Potential Hydraulic Lifts** – Two bays with roll up doors are present on the east side of the former Industrial Arts (Auto Shop) Building/current weight room (See Photo 27 and Figure 6). This makes it likely that two interior hydraulic lifts were formerly present in this building. The floor is covered and no records were found documenting the removal of any hydraulic hoists. The potential presence of two hydraulic hoists underneath this building is a REC.

- **Historical Agricultural Use** – Historical aerial photographs and a client-supplied partial plot plan of the southwestern portion of the Site indicates that agricultural buildings and potential plots for planting were/are present in the southwestern portion of the Site (see Figure 7). Pesticides and herbicides may have been used for insect and weed control during this period of time. Organochlorine pesticides (OCPs) were first introduced into California agriculture in 1944 and reached peak usage in the 1960s. Arsenic in the form of arsenical herbicides has been applied to many agricultural properties and elevated levels of arsenic have been reported in the evaluation of these properties. Because the this portion of the Site apparently was used for agricultural purposes the time of heighted pesticide use, this historical activity is considered a REC for this portion of the Site.

- **Exterior Soil Contamination from Lead Based Paint (LBP) and Termiticides –** The primary buildings at the Site were constructed prior to 1964 and, therefore, the exposed soil around these buildings may contain elevated concentration of lead from LBP. In addition, exposed soil around any timber structures of this vintage may contain elevated concentration of OCPs from former termiticide applications. The potential presence of soil with elevated concentrations of lead and/or OCPs in exposed soil around pre-1970s buildings is considered a REC.

- **Radon Gas –** The Site is located within a ZIP code where approximately one-third of the samples collected and analyzed by the CDPH for radon gas exceed the US EPA's action level of 4.0 pCi/l. Radon gas is considered a REC.

- **LBP and Asbestos-Containing Building Materials (ACBM)** – The primary buildings at the Site were constructed prior to 1964 and, therefore, may contain LBP and/or ACBM. LBP and ACBM are considered a REC.

8.2 RECOMMENDATIONS

The recommendations for each of the RECS identified in Section 8.1 are presented below:

- **Historical Herbicide Uses** – Prior to the removal of any AC pavement shallow (36-inch maximum) soil samples should be collected and analyzed for arsenic.

- **Storage of Petroleum Products** – If a project is proposed to remove the Utility Building or Gardener's Shed, shallow (15-foot maximum) soil and soil vapor samples should be within or near each location and analyzed for total petroleum hydrocarbons with carbon chain speciation (TPH-cc).

9. Conclusions and Recommendations

- **Industrial Wastewater** – If a project is proposed within 25 feet of the clarifier, shallow (20-foot maximum) soil and soil vapor samples should be collected within 5 feet of the clarifier and analyzed for Title 22 metals, volatile organic compounds (VOCs) and TPH-cc. total petroleum hydrocarbons with carbon chain speciation

- **Potential Hydraulic Lifts** – If a project proposes to place new flooring or remove the Industrial Arts (Auto Shop) Building/current weight room, all of existing flooring should be removed down to the concrete slab and inspected for signs of hydraulic hoist. If signs exist (e.g.. sawcuts in the slab, concrete of different tint/finish, etc.) then a geophysical survey should be completed to determine if the hoist(s) is/are still present under the slab. If no signs are present, no further investigation is recommended. If the results of the geophysical survey support the hydraulic hoist(s) may still be present, then the concrete should be removed and the soil beneath it removed to explore for the hoist(s). Should the presence of a lift be confirmed, it should be removed in accordance with all current laws, regulation, and guidelines. If the geophysical survey indicates no signs of a hydraulic lift, shallow (15-feet maximum) soil samples should be collected from beneath the center of the "patch" and analyzed for PCBs and TPH-cc.

- **Historical Agricultural Use** – If a project is proposed in the southwestern portion of the Site, then shallow (36-inch maximum) soil samples should be collected from biased and unbiased locations for OCPs.

- **Exterior Soil Contamination from LBP and Termiticides –** If any projects are proposed that remove any building that can't be documented to have been placed after the mid-1970s, then exposed soil within 25 feet of the structure should tested in accordance with DTSC's June 9, 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.*

- **Radon Gas –** If any projects are proposed to remove and replace any building that has not had its lowest level tested for radon gas, that lowest level should be tested. If a new building is proposed in a location with no prior construction, then the lowest level of the closest building should be tested. In either case, the proposed building should be constructed with appropriate radon-resistant features (e.g. depressurization and venting).

- **LBP and ACBM** – If any projects are proposed that remove any structure which the presence or absence of LBP and/ACBM has not been completely documented, then additional surveys should be completed until the location of all such materials have been identified. All materials with LBP and ACBM must be abated in accordance with all laws, regulation, and guidance prior to the demolition of the structures.

9. Limitations and Exceptions

9.1 LIMITATIONS

This Phase I ESA was designed to assess the likelihood that soil, soil vapor, and/or groundwater beneath the subject Site have been impacted by releases of hazardous substances or wastes, including petroleum compounds. The assessment was performed in substantial conformance with ASTM E 1527-13 (November 2013) and is consistent with good commercial and customary practice for the conduct of environmental site assessments. Services were provided within the time and cost limitations of the Scope of Work contained in PlaceWorks' May 30, 2017 proposal to the Los Angeles Unified School District. No warranty or guarantee of Site conditions is expressed or implied.

This report does not warrant against future operations or conditions, nor does it warrant against:

- Operations that are not in evidence from visual observations or search of published agency records, or facts that were concealed, withheld, or not fully disclosed at the time the inspection was conducted.
- Conditions that could only be determined by physical sampling or intrusive testing, except as discovered by a separately commissioned Phase II field investigation.
- Conditions at locations other than the client-provided Site address and/or legal parcel description.

The opinions, conclusions, and recommendations expressed in this Phase I ESA are based on professional interpretations and judgments; they are not legal opinions. They apply to property conditions at the time the assessment was performed. The passage of time may result in significant changes in Site conditions, technology, or economic conditions that could alter the findings and/or recommendations of the report. Therefore, PlaceWorks endorses the ASTM recommendation that Phase I ESAs older than 180 days only be used subject to certain limitations and update procedures. PlaceWorks is not responsible for the accuracy or completeness of information provided by other individuals or entities that were relied upon in this report.

9.2 PROPRIETARY NOTICE

This report and its contents are privileged and confidential information and should not be duplicated or copied under any circumstances without the expressed permission of PlaceWorks. Any unauthorized reuse of PlaceWorks' reports or data will be at the unauthorized user's sole risk and liability. The report is intended solely for use by the client: Los Angeles Unified School District. The scope of services for this assessment may not be appropriate to the needs of other users. Therefore, any unauthorized use of this document, or of the findings, conclusions, and/or recommendations presented herein, is at the sole risk of the third party.

10. Statement of Qualifications

This Phase I ESA was prepared in a manner consistent with the level of care and skill ordinarily exercised by professional engineers, geologists, and environmental scientists, under the technical direction of the undersigned. Eric Longenecker has been providing environmental consulting services for more than 12 years. Relevant qualifications and experience include numerous projects involving site investigation, remediation, regulatory/permitting assistance, risk assessment, and environmental compliance. Mr. Longenecker is a licensed civil engineer in California and has personally prepared numerous Phase I ESAs in the course of his environmental practice.

I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional, as defined in 40 CFR Section 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject Site. I have developed and performed the "all appropriate inquiries" in conformance with the standards and practices set forth in 40 CFR Part 312. A copy of my resume is included in Appendix K.

PlaceWorks:

Eric B Longenecker, PE
Associate Principal

September 19, 2017
Date

11. References

Document and Map References

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11. References

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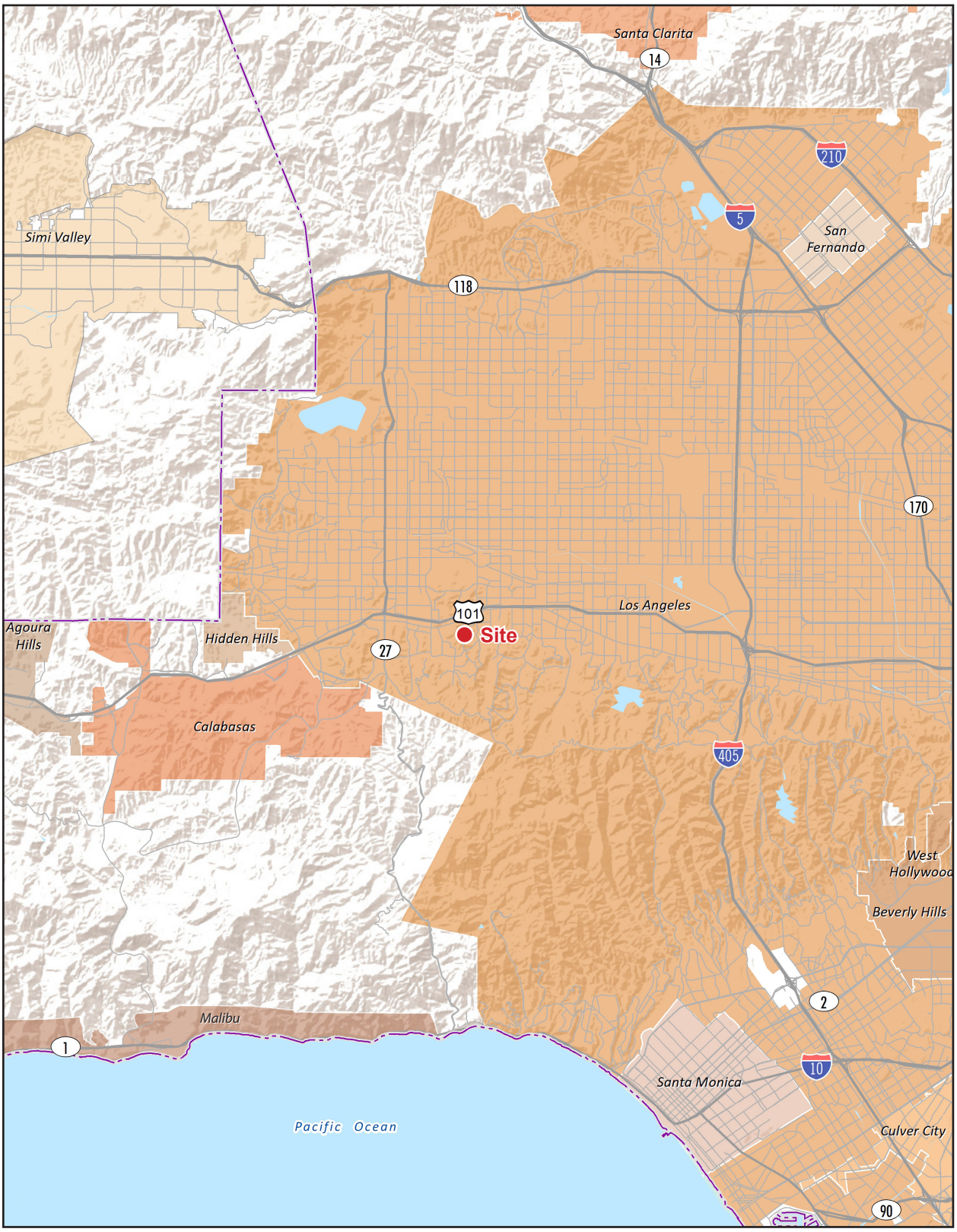
Figures

Figure 1 - Regional Location



Note: Unincorporated county areas are shown in white.

0 3
Scale (Miles)

Source: ESRI, 2016

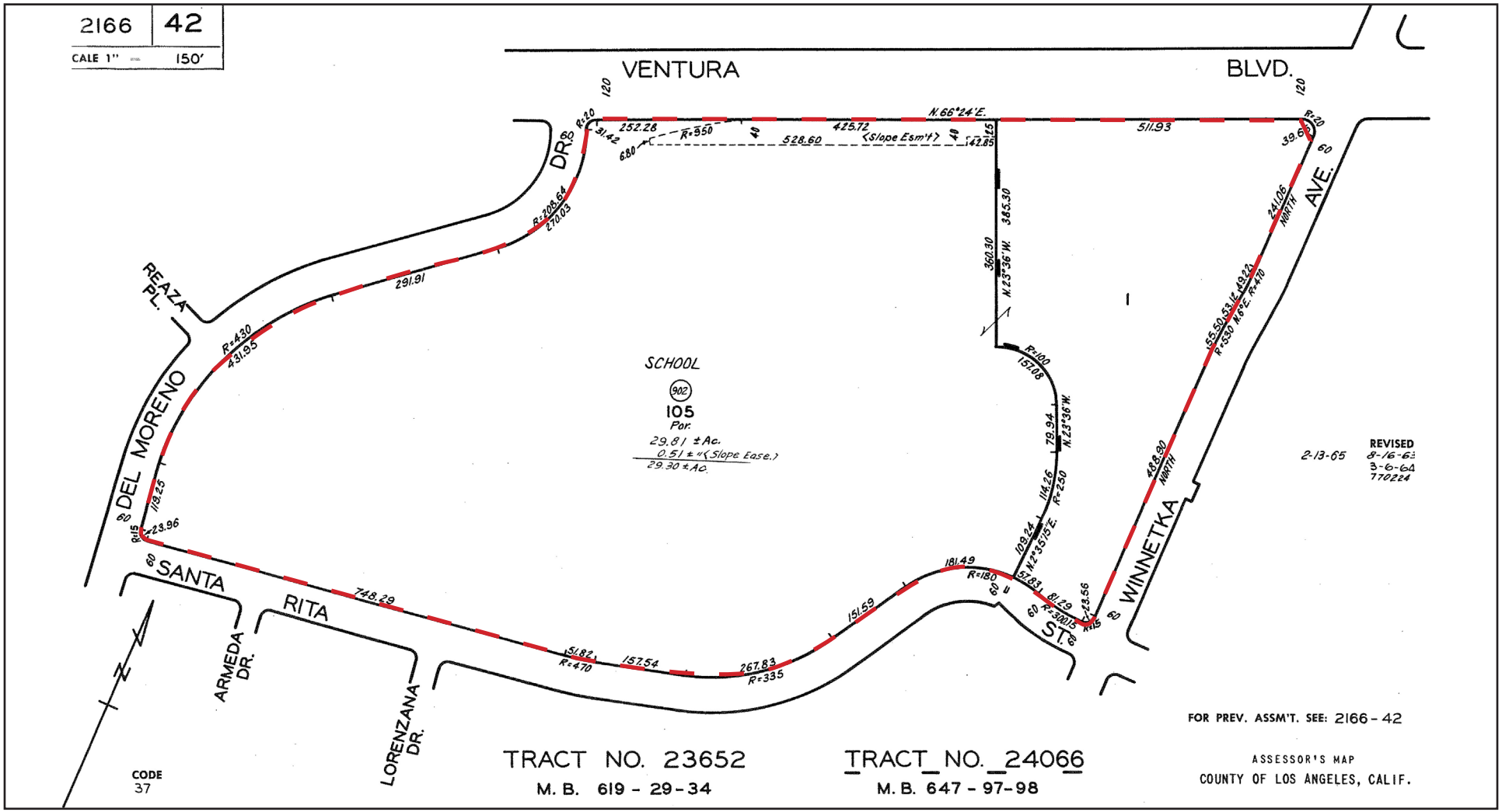
Figure 2 - Aerial Photograph

School Boundary

0 250
Scale (Feet)

Source: Google Earth Pro, 2017

Figure 3 - Tax Assessor's Map

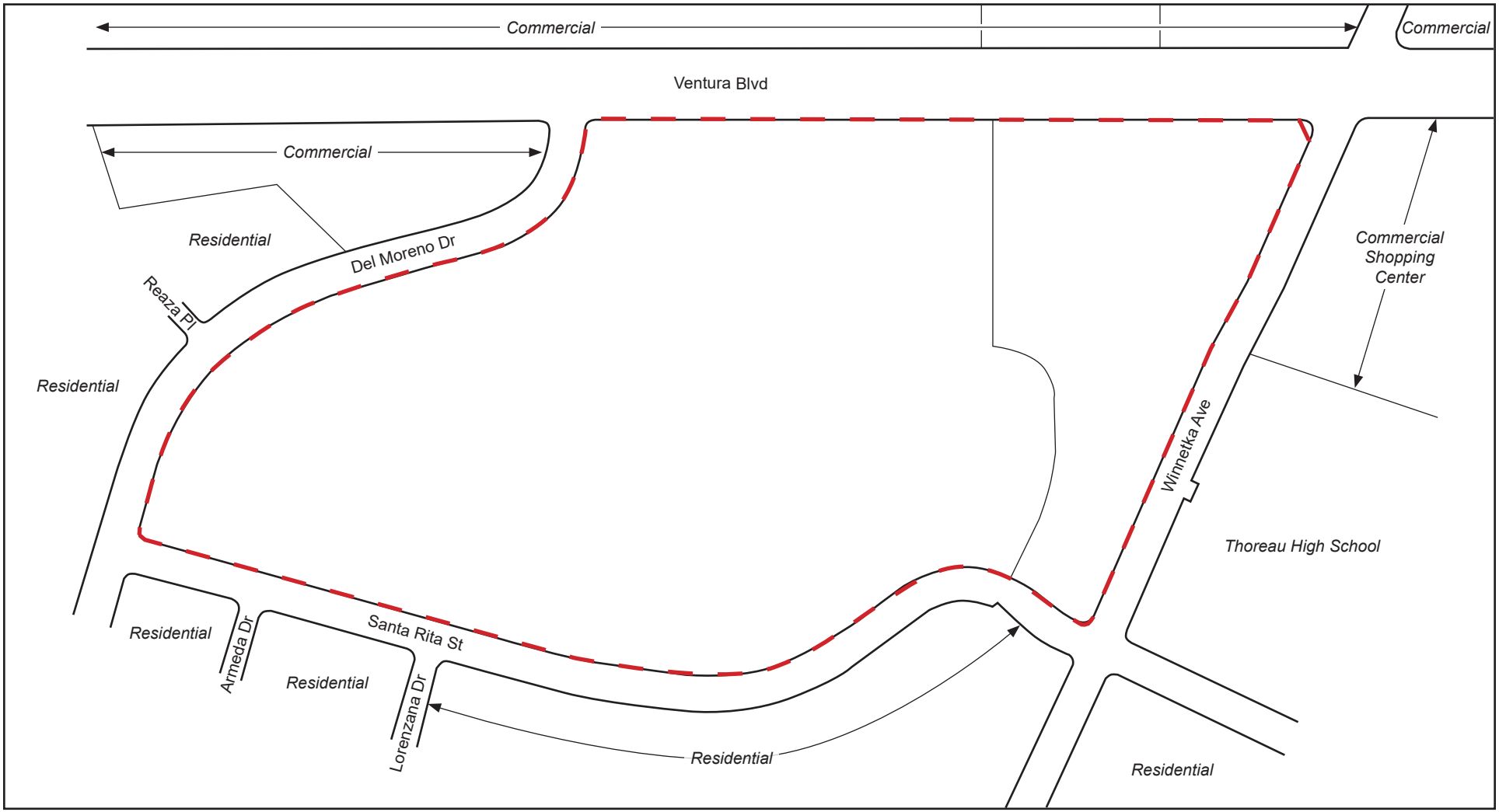


School Boundary

0 250
Scale (Feet)

Source: Los Angeles County Tax Assessor

Figure 4 - Site and Surrounding Land Use



School Boundary

0 250
Scale (Feet)

Source: Los Angeles County Tax Assessor

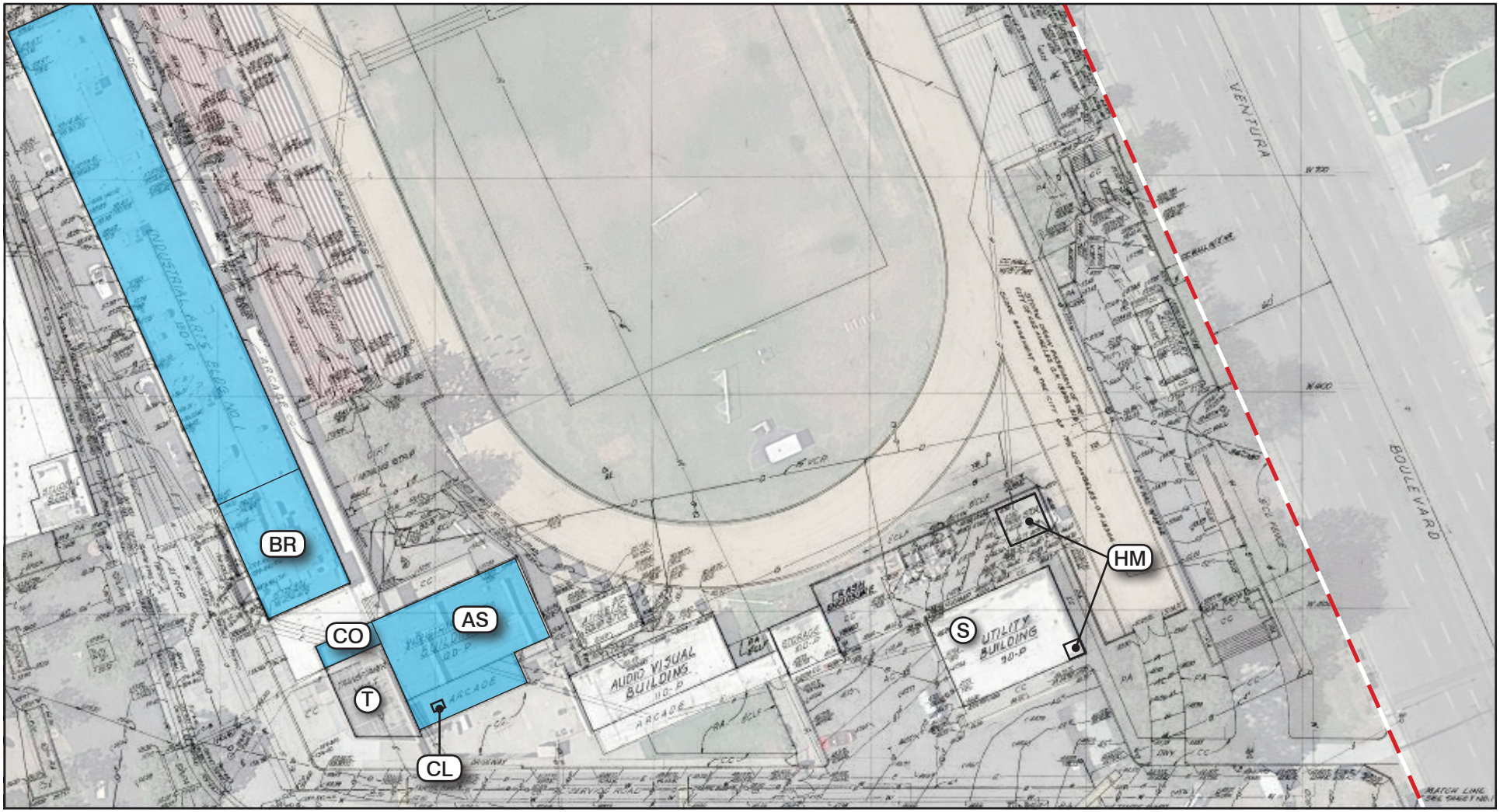
Figure 5 - Breakout Map and Off-site Issue Locations

School Boundary

Source: Google Earth Pro, 2017

0 250
Scale (Feet)

Figure 6 - Detail Map 1



School Boundary

Buildings to be Modernized

Source: Google Earth Pro, 2017; PART PLOT PLAN, Taft High School, Sheet 4/8"

AS Former Auto Shop (See Photos 27 and 29)

BR Basement Boiler Room (See Photos 24 and 26)

CL 3-Stage Clarifier (See Photo 28)

CO Co-Generation Room with 2 Transformers (See Photo 30)

HM Hazardous Materials Storage (See Photos 9, 10, and 32)

S Cleaning Supplies Storage (See Photo 31)

T High Voltage Transformer Enclosure (See Photos 13-14)

0 70
Scale (Feet)

Figure 7 - Detail Map 2

School Boundary

Ag Former Agricultural

AgU Agricultural Unit

GH Green House

LH Lath House

0 100
Scale (Feet)

Source: Google Earth Pro, 2017; 1977 from EDR Report, and PART PLOT PLAN, Taft High School, Sheet 8/8"

Appendix A. Historical Aerial Photographs

Taft High School

5461 Winnetka Ave

Woodland Hills, CA 91364

Inquiry Number: 5037330.12

August 30, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/30/17

Site Name:

Taft High School
5461 Winnetka Ave
Woodland Hills, CA 91364
EDR Inquiry # 5037330.12

Client Name:

PlaceWorks
700 S. Flower Street #600
Los Angeles, CA 90017
Contact: Robyn Chaconas

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1995	1"=500'	Acquisition Date: October 03, 1995	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 19, 1983	EDR Proprietary Brewster Pacific
1981	1"=500'	Flight Date: February 21, 1981	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: April 25, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: November 09, 1972	EDR Proprietary Brewster Pacific
1967	1"=500'	Flight Date: August 13, 1967	USGS
1964	1"=500'	Flight Date: July 28, 1964	USGS
1952	1"=500'	Flight Date: March 11, 1952	USDA
1947	1"=500'	Flight Date: August 15, 1947	USGS
1938	1"=500'	Flight Date: May 13, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	USGS

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INQUIRY #: 5037330.12
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 5037330.12

YEAR: 2010

= 500'

N

EDR

INQUIRY #: 5037330.12
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 5037330.12
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 5037330.12
YEAR: 2002
= 500'
N
EDR

INQUIRY #: 5037330.12

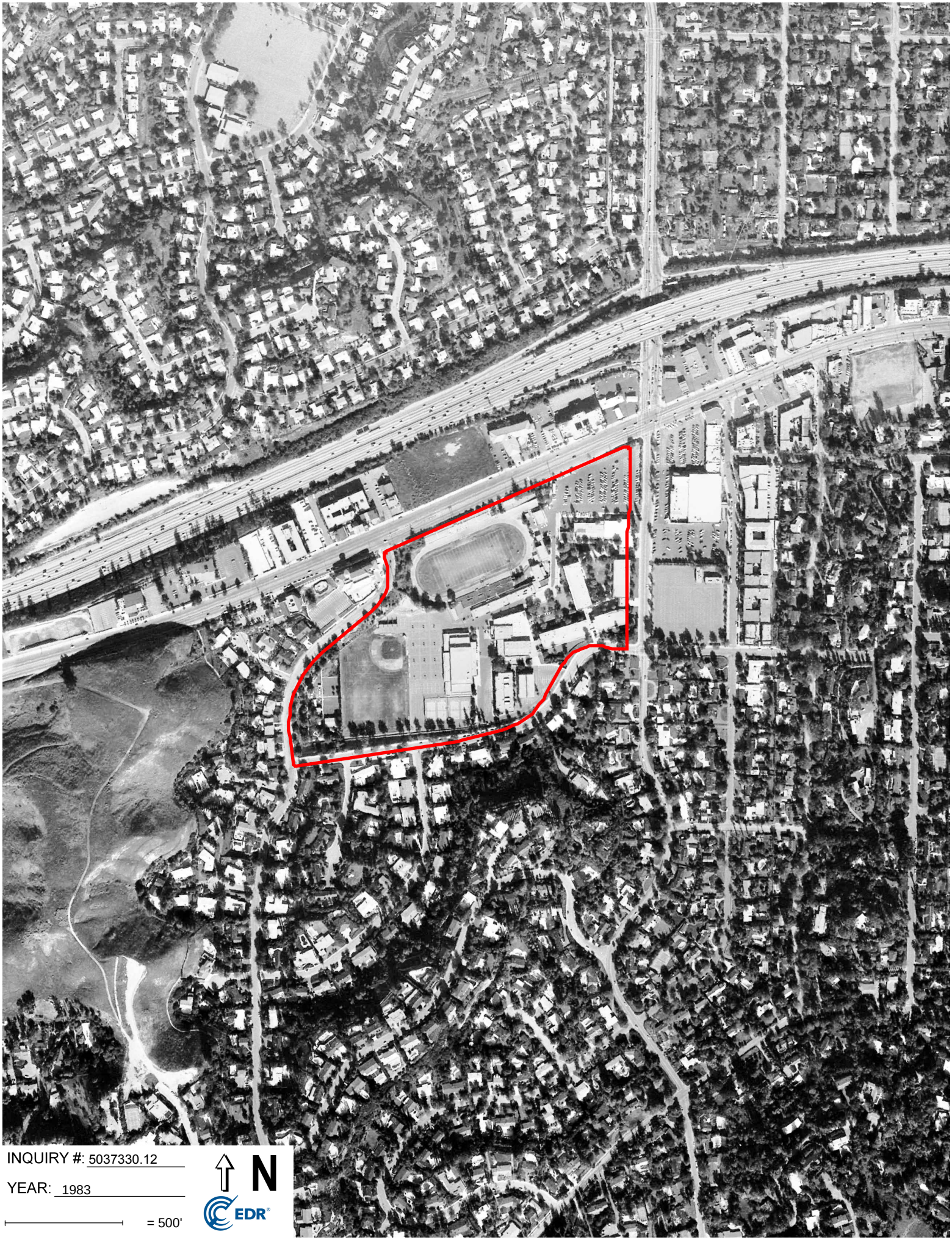
YEAR: 1995

= 500'

N

EDR

INQUIRY #: 5037330.12
YEAR: 1989
= 500'
N
EDR



INQUIRY #: 5037330.12

YEAR: 1983

= 500'

N

EDR

INQUIRY #: 5037330.12

YEAR: 1981

= 500'

N

EDR

INQUIRY #: 5037330.12
YEAR: 1977
= 500'
N
EDR

INQUIRY #: 5037330.12

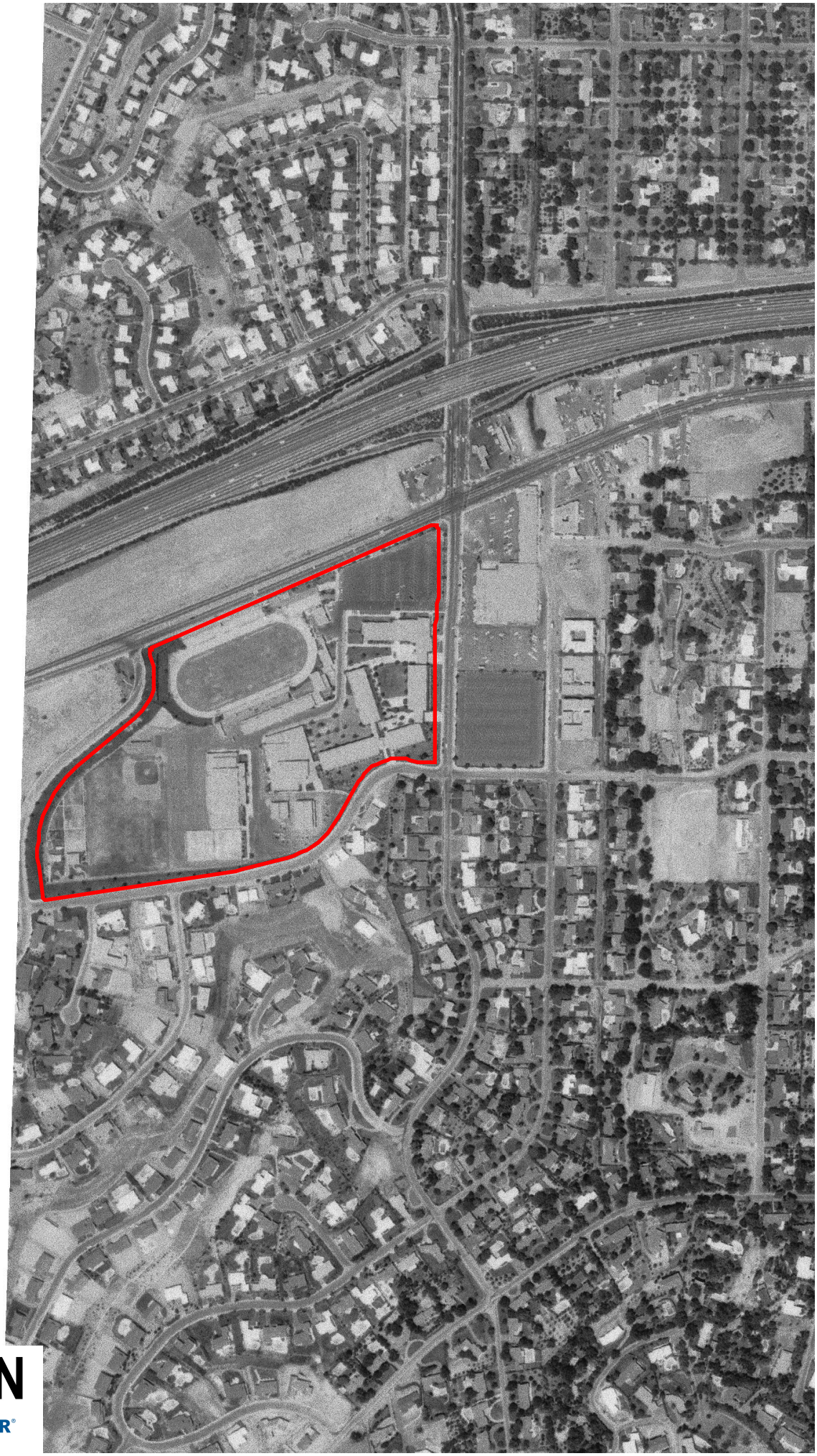
YEAR: 1972

= 500'

N

EDR

INQUIRY #: 5037330.12
YEAR: 1967
= 500'
N
EDR



INQUIRY #: 5037330.12

YEAR: 1964

= 500'

N

EDR

INQUIRY #: 5037330.12

YEAR: 1952

= 500'

N

EDR

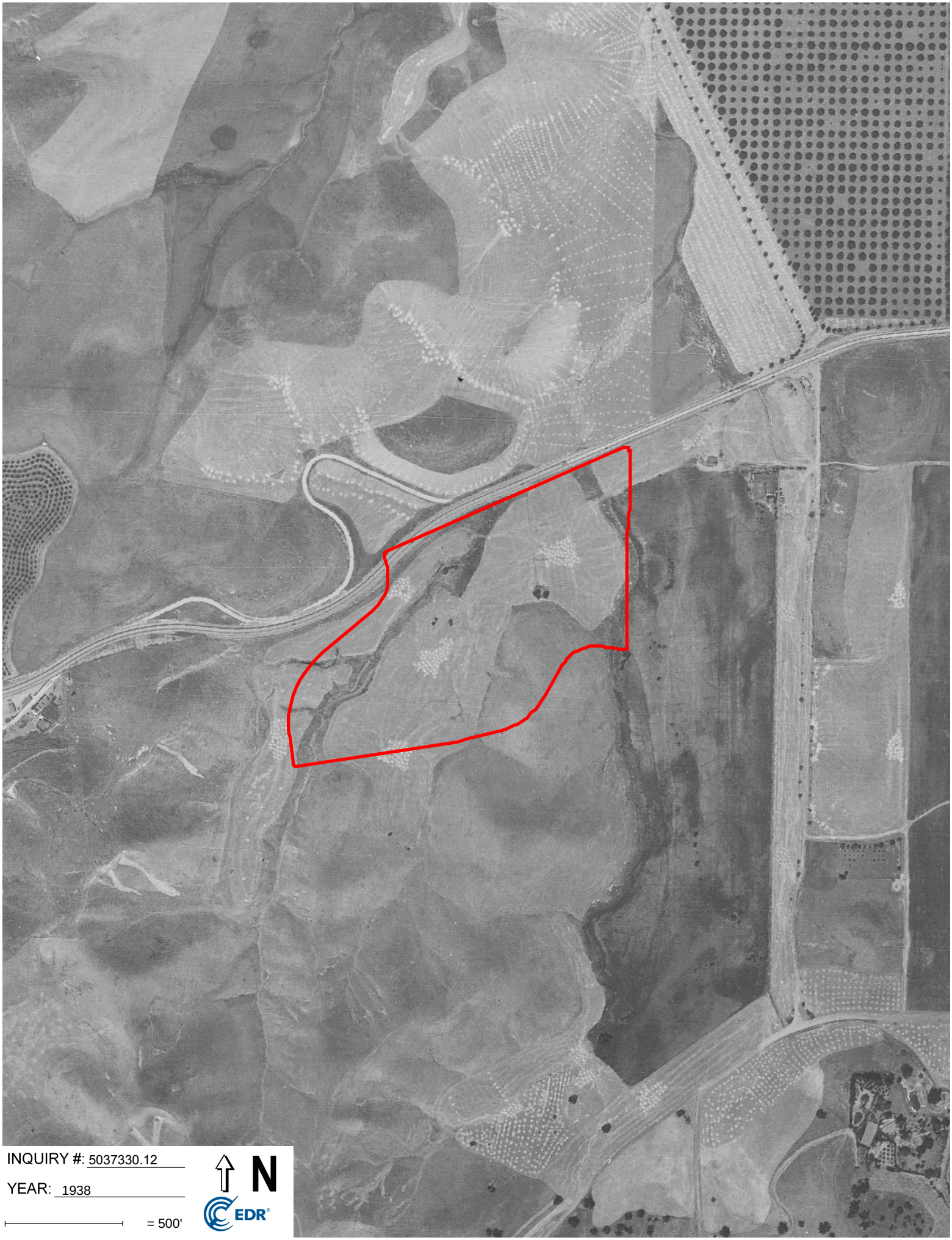
INQUIRY #: 5037330.12

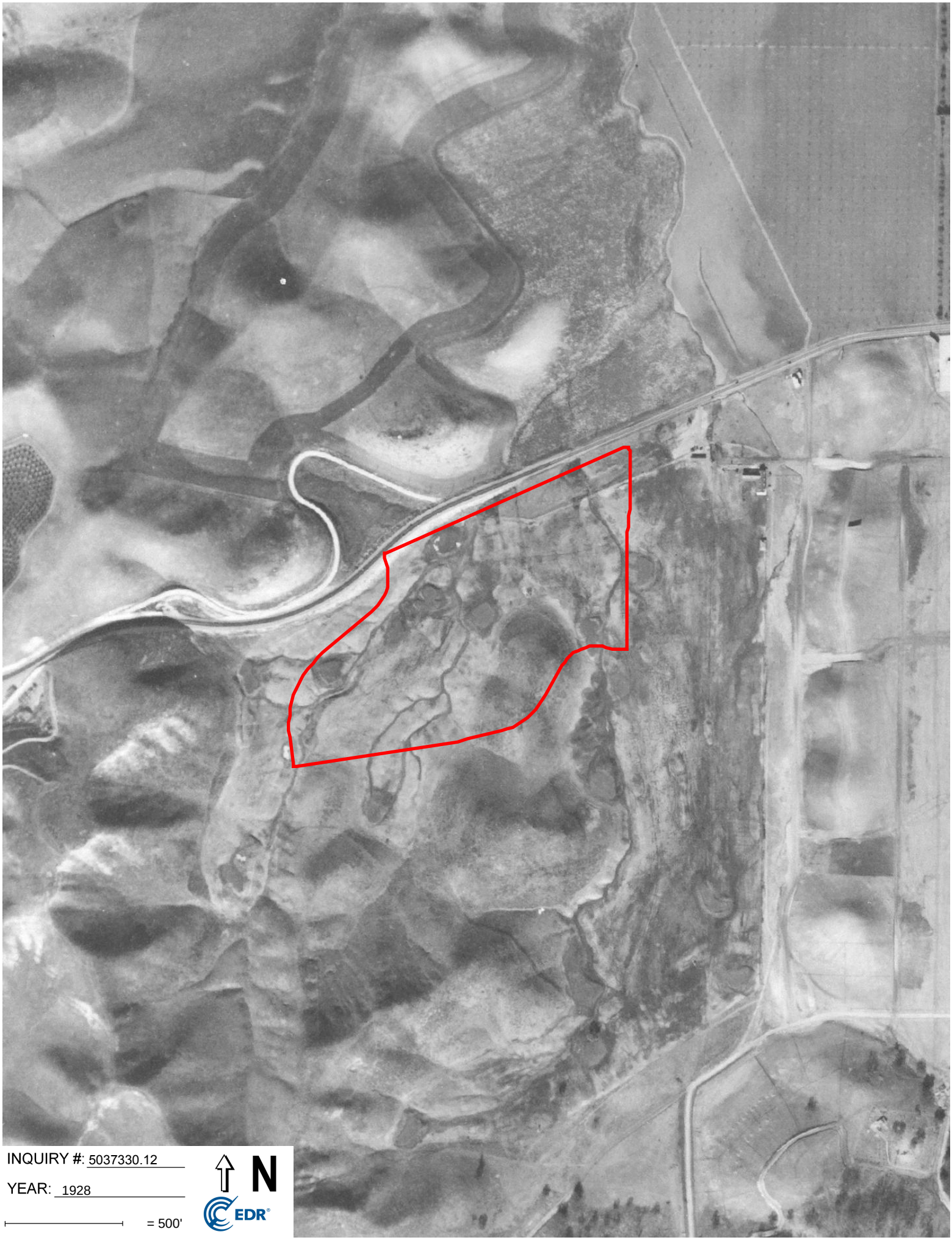
YEAR: 1947

= 500'

N

EDR


INQUIRY #: 5037330.12
YEAR: 1938
= 500'
N
EDR



INQUIRY #: 5037330.12

YEAR: 1928

= 500'

N

EDR

Appendix B. Sanborn Fire Insurance Maps

Taft High School

5461 Winnetka Ave

Woodland Hills, CA 91364

Inquiry Number: 5037330.3

August 30, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/30/17

Site Name:	Client Name:
Taft High School	PlaceWorks
5461 Winnetka Ave	700 S. Flower Street #600
Woodland Hills, CA 91364	Los Angeles, CA 90017
EDR Inquiry # 5037330.3	Contact: Robyn Chaconas

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by PlaceWorks were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # A84D-4C6B-939F

PO # NA

Project Taft High School

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: A84D-4C6B-939F

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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PlaceWorks (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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Appendix C. Historical Topographic Maps

Taft High School

5461 Winnetka Ave

Woodland Hills, CA 91364

Inquiry Number: 5037330.4

August 30, 2017

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

08/30/17

Site Name:	Client Name:
Taft High School	PlaceWorks
5461 Winnetka Ave	700 S. Flower Street #600
Woodland Hills, CA 91364	Los Angeles, CA 90017
EDR Inquiry # 5037330.4	Contact: Robyn Chaconas

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by PlaceWorks were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	NA	**Latitude:**	34.168525 34° 10' 7" North
Project:	Taft High School	**Longitude:**	-118.57336 -118° 34' 24" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	354984.39
		UTM Y Meters:	3781960.37
		Elevation:	842.00' above sea level

Maps Provided:

2012
1967
1952
1947
1944
1928
1903

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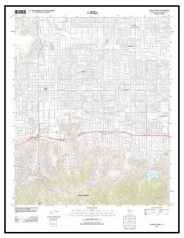
Topo Sheet Key

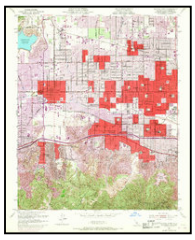
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Canoga Park
2012
7.5-minute, 24000

1967 Source Sheets

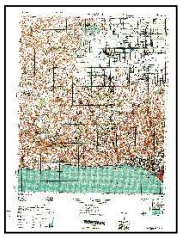


Canoga Park
1967
7.5-minute, 24000
Aerial Photo Revised 1967

1952 Source Sheets

Canoga Park
1952
7.5-minute, 24000
Aerial Photo Revised 1947

1947 Source Sheets



CALABASAS
1947
15-minute, 50000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1944 Source Sheets

Calabasas
1944
15-minute, 62500
Aerial Photo Revised 1938

1928 Source Sheets

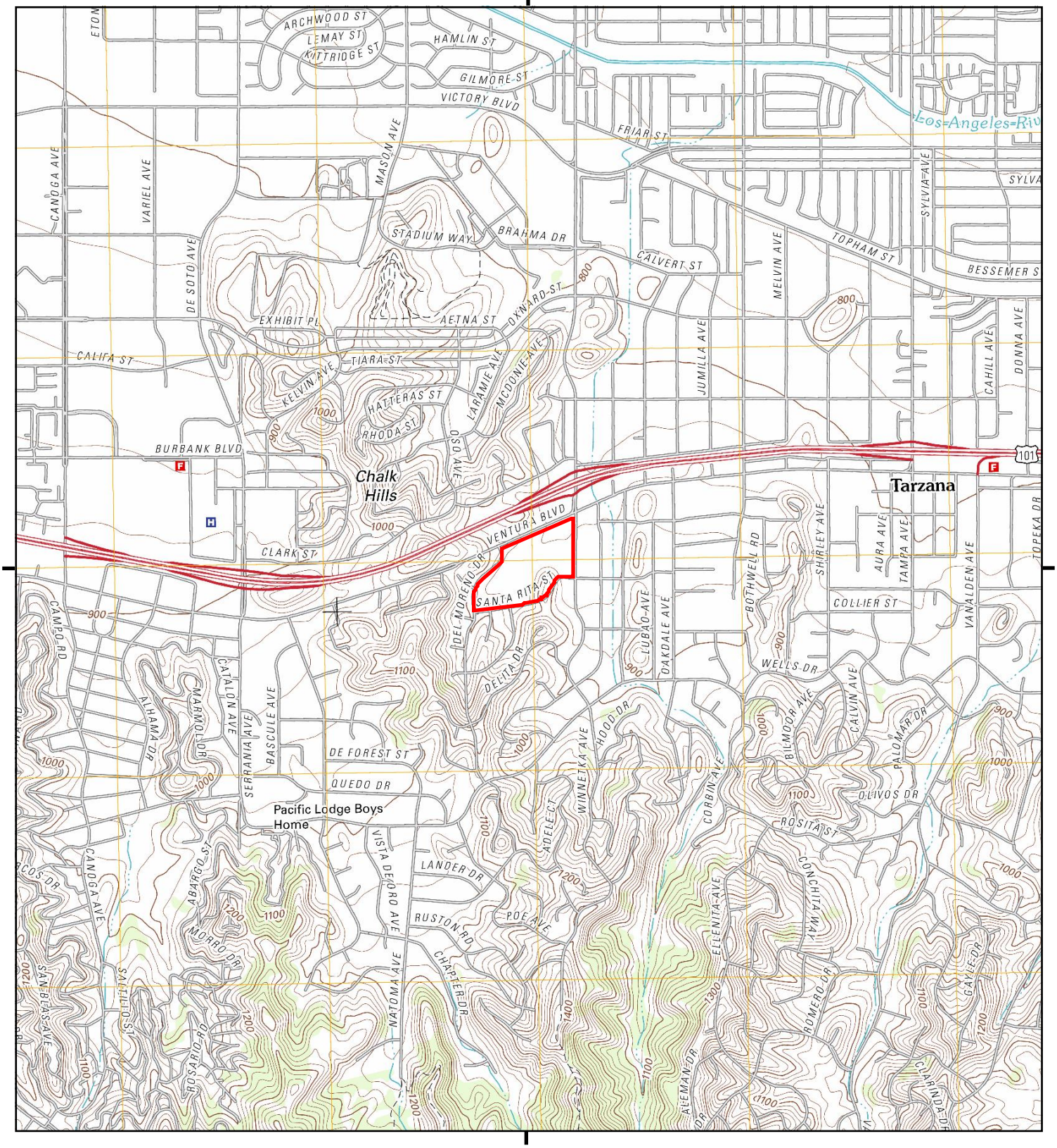
Reseda
1928
7.5-minute, 24000

1903 Source Sheets

Calabasas
1903
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

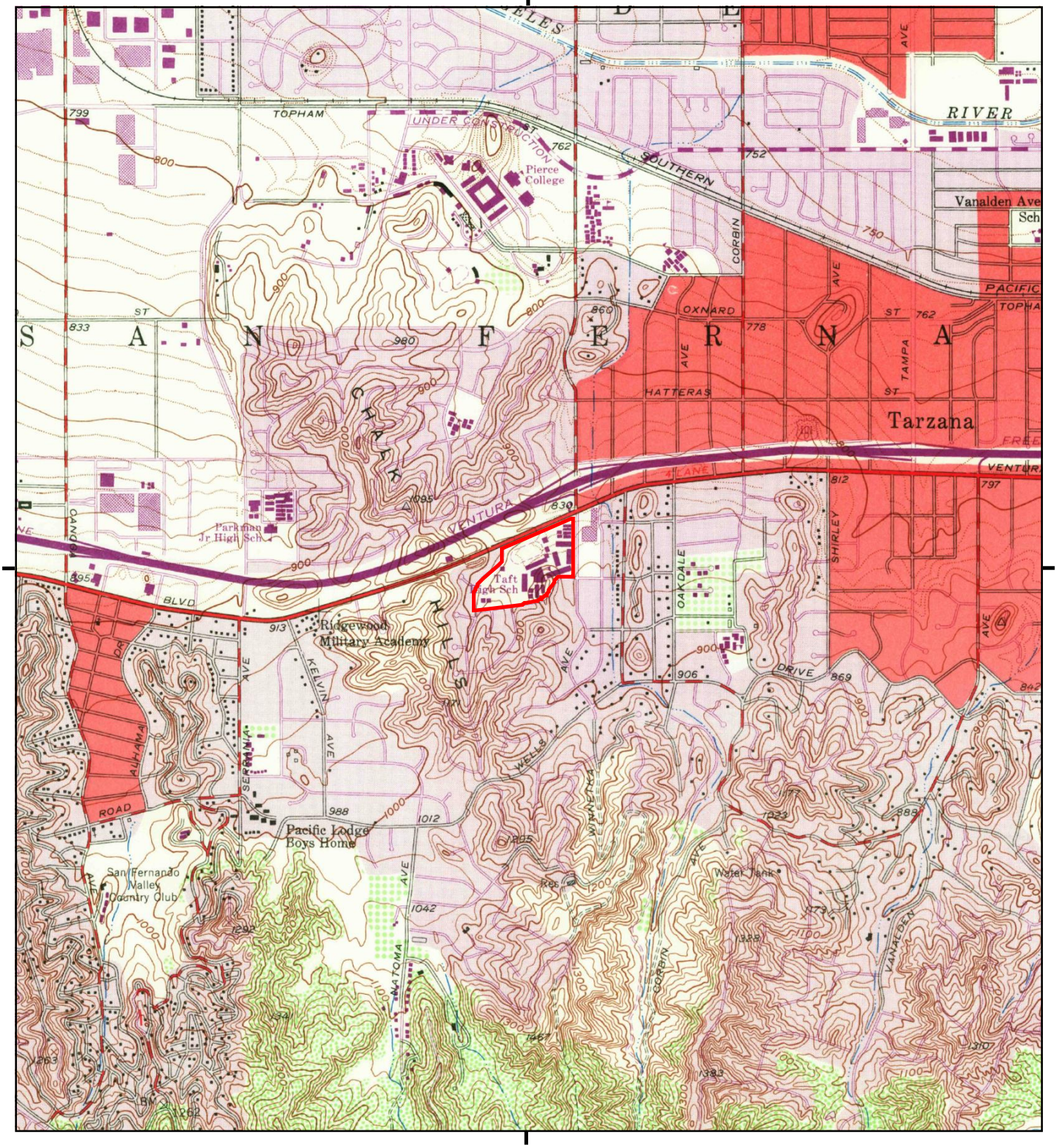
TP, Canoga Park, 2012, 7.5-minute

SITE NAME: Taft High School
ADDRESS: 5461 Winnetka Ave
Woodland Hills, CA 91364
CLIENT: PlaceWorks

N

Historical Topo Map

1967



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

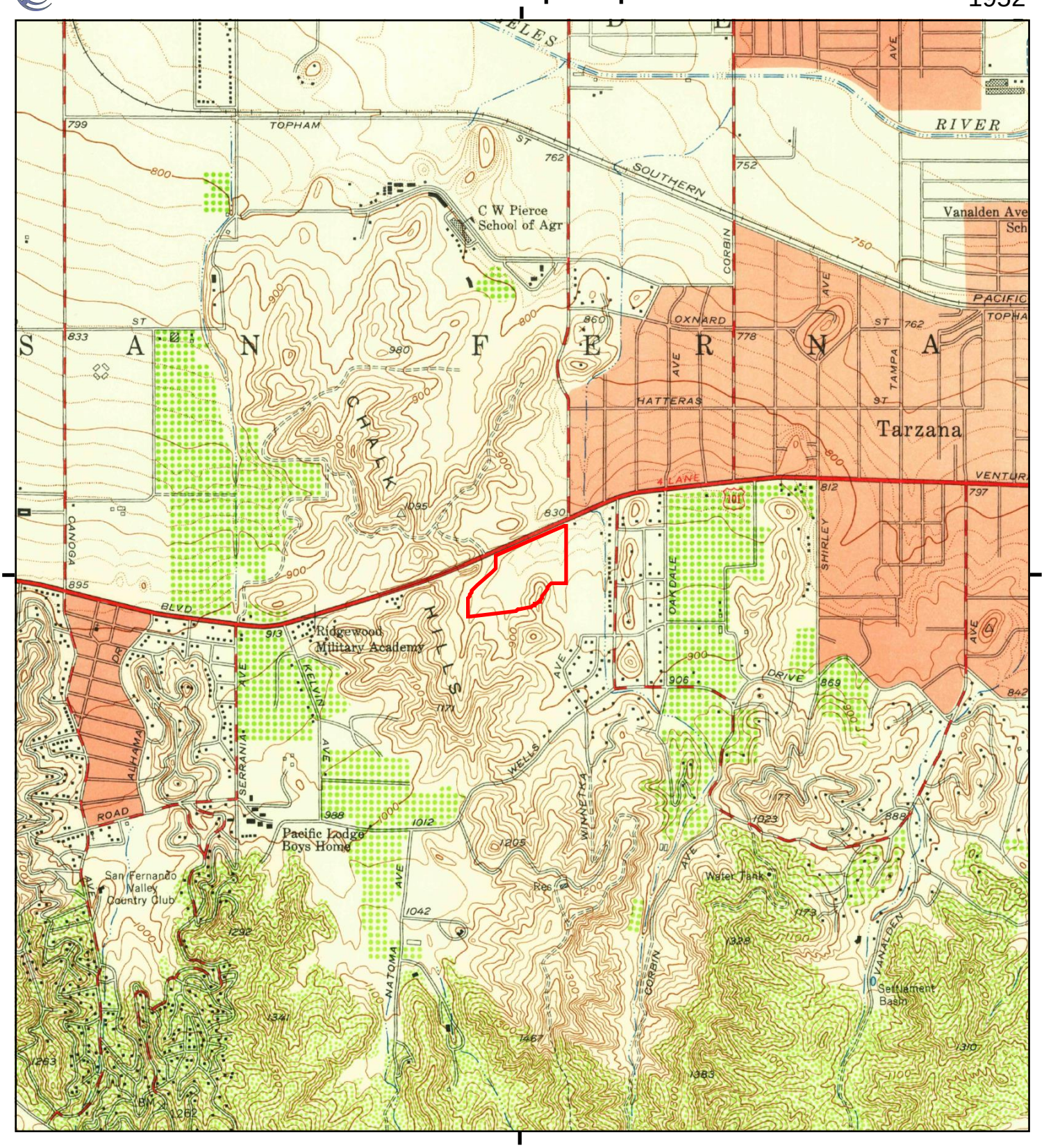
TP, Canoga Park, 1967, 7.5-minute

SITE NAME: Taft High School
ADDRESS: 5461 Winnetka Ave
Woodland Hills, CA 91364
CLIENT: PlaceWorks

N

Historical Topo Map

1952



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

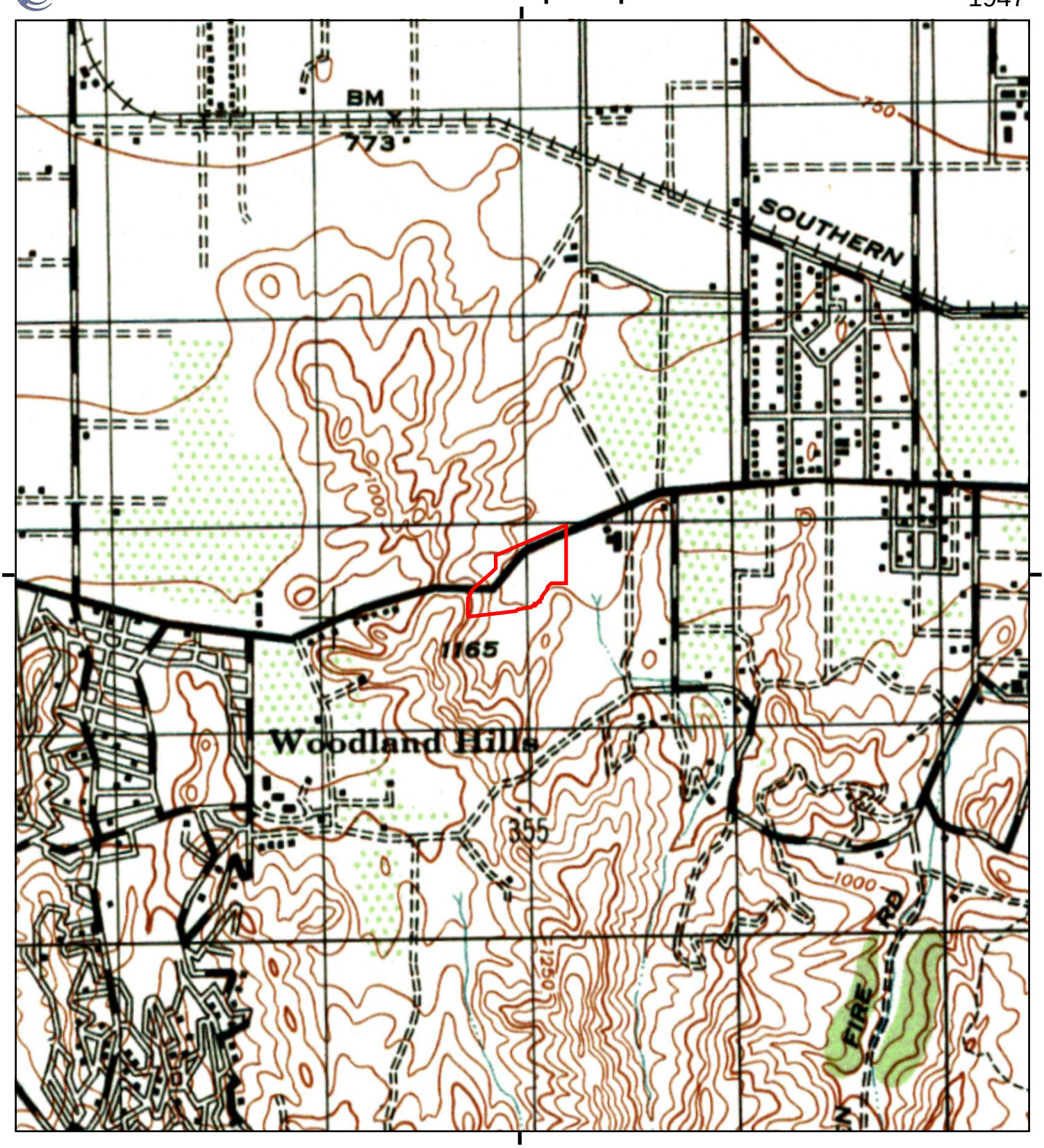
TP, Canoga Park, 1952, 7.5-minute

SITE NAME: Taft High School
ADDRESS: 5461 Winnetka Ave
Woodland Hills, CA 91364
CLIENT: PlaceWorks

N

Historical Topo Map

1947



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

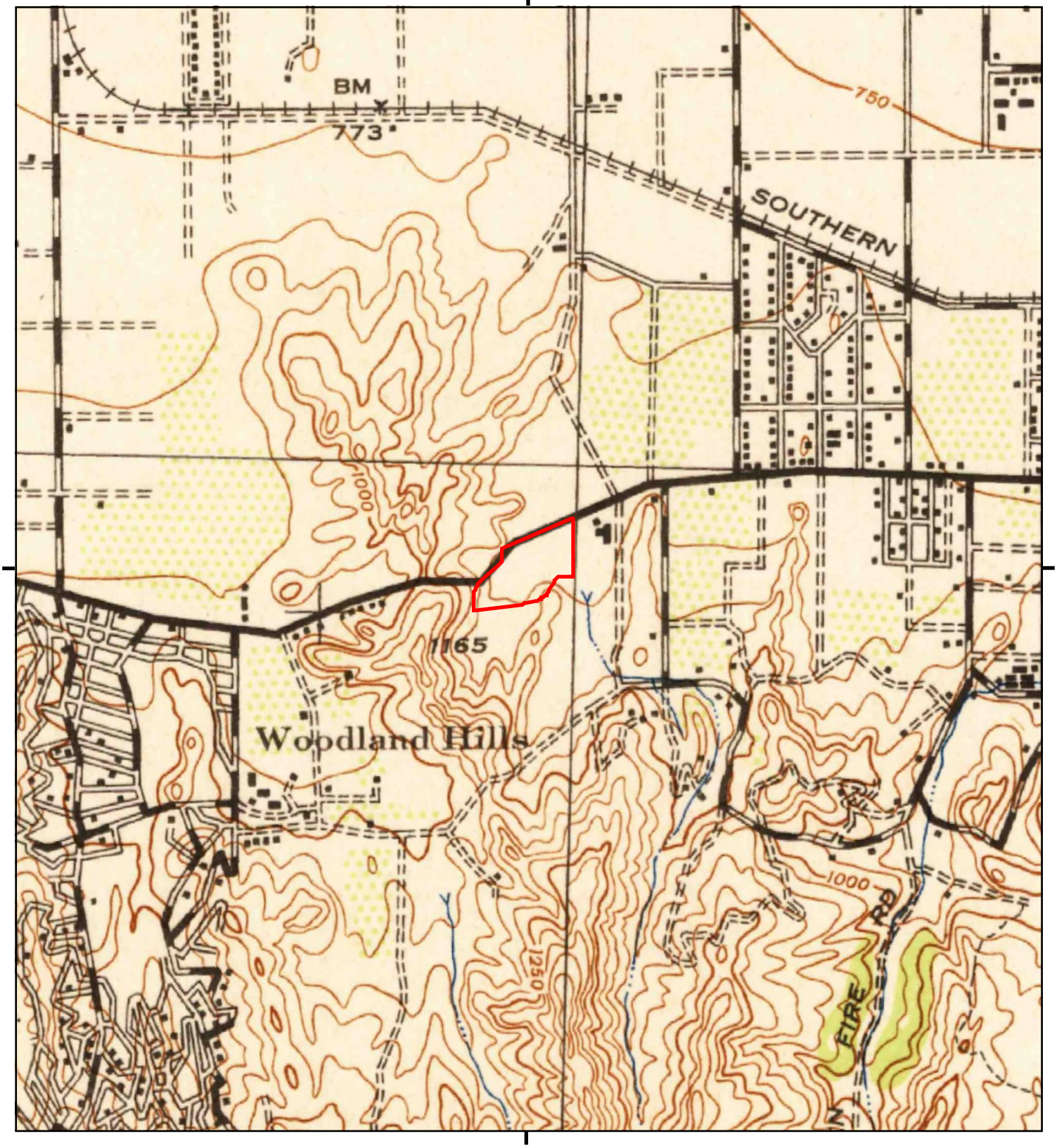
TP, CALABASAS, 1947, 15-minute

SITE NAME: Taft High School
ADDRESS: 5461 Winnetka Ave
Woodland Hills, CA 91364
CLIENT: PlaceWorks

N

Historical Topo Map

1944



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

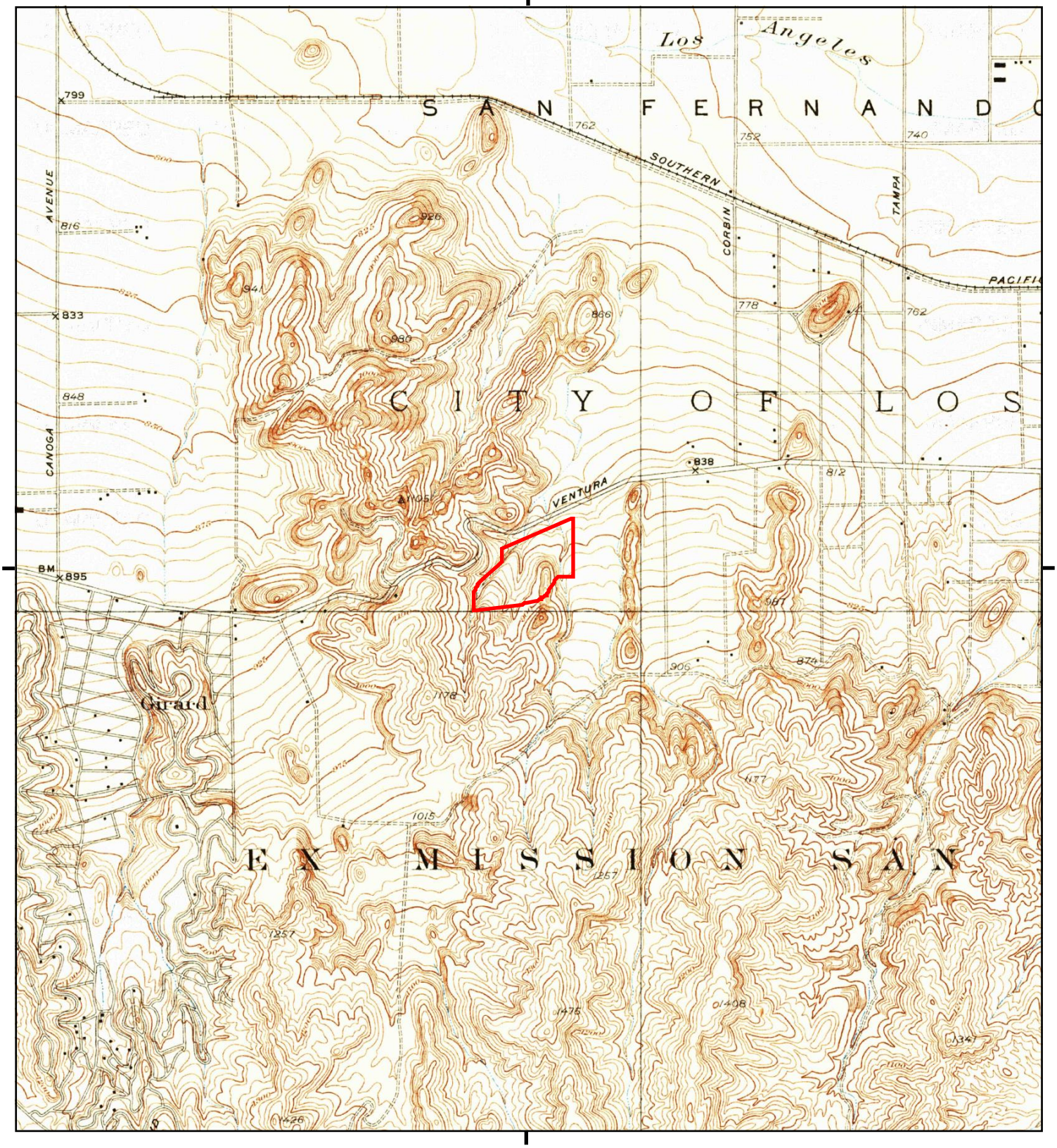
TP, Calabasas, 1944, 15-minute

SITE NAME: Taft High School
ADDRESS: 5461 Winnetka Ave
Woodland Hills, CA 91364
CLIENT: PlaceWorks

N

Historical Topo Map

1928



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

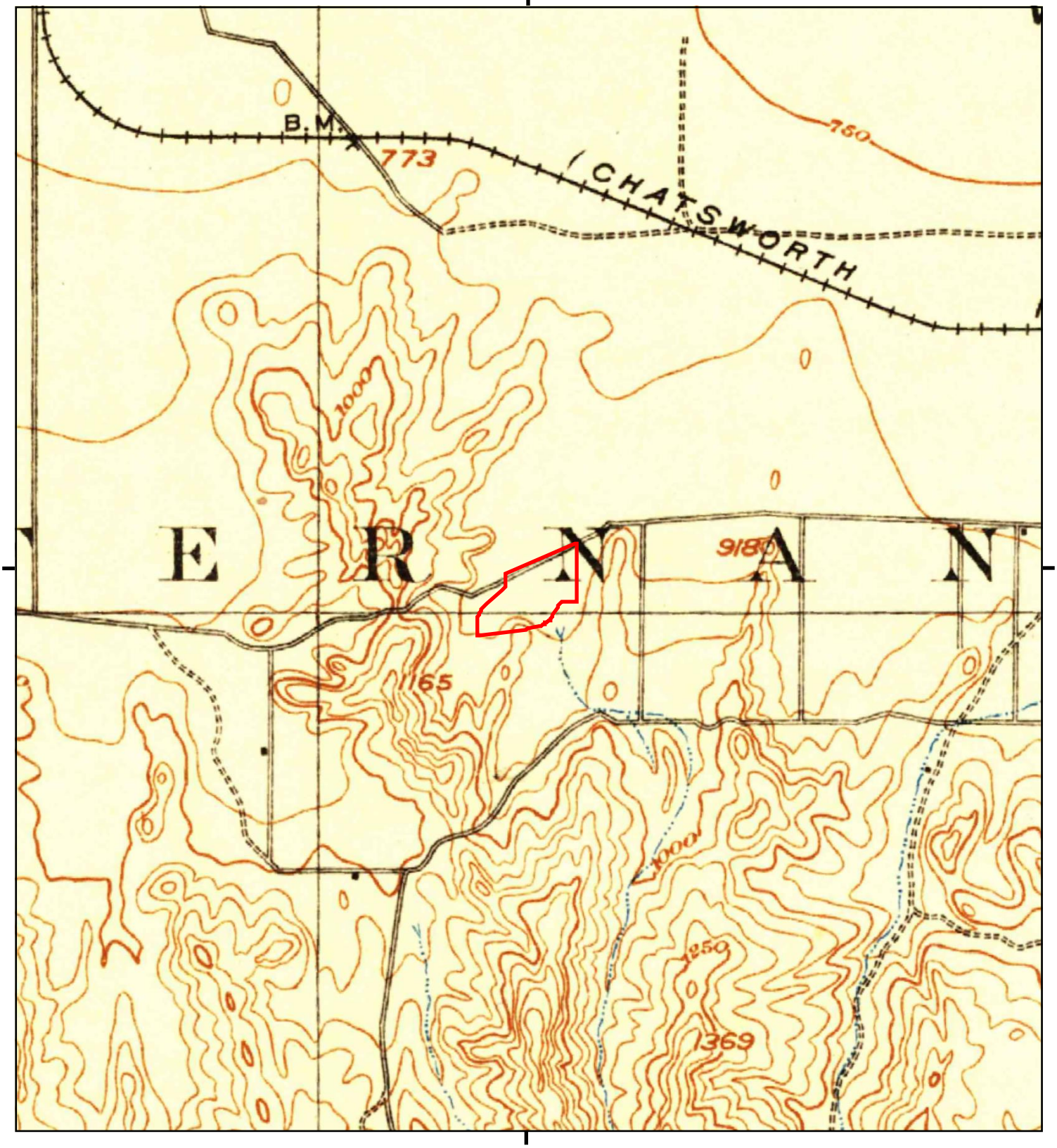
TP, Reseda, 1928, 7.5-minute

SITE NAME: Taft High School
ADDRESS: 5461 Winnetka Ave
Woodland Hills, CA 91364
CLIENT: PlaceWorks

N

Historical Topo Map

1903



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Calabasas, 1903, 15-minute

SITE NAME: Taft High School
ADDRESS: 5461 Winnetka Ave
Woodland Hills, CA 91364
CLIENT: PlaceWorks

N

Appendix D. Building Permits

Taft High School
5461 Winnetka Ave
Woodland Hills, CA 91364

Inquiry Number: 5037330.8
August 30, 2017

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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About This Report

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Glossary

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting 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.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX® PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of PlaceWorks on Aug 30, 2017.

TARGET PROPERTY

5461 Winnetka Ave
Woodland Hills, CA 91364

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Los Angeles

Year	*Source*	*TP*	*Adjoining*
2017	City of Los Angeles, Department of Building and Safety		X
2016	City of Los Angeles, Department of Building and Safety		X
	City of Los Angeles, Department of Building and Safety	X	
2015	City of Los Angeles, Department of Building and Safety		X
2014	City of Los Angeles, Department of Building and Safety		X
2013	City of Los Angeles, Department of Building and Safety		X
2012	City of Los Angeles, Department of Building and Safety		X
2011	City of Los Angeles, Department of Building and Safety		X
2010	City of Los Angeles, Department of Building and Safety		X
2009	City of Los Angeles, Department of Building and Safety		X
2008	City of Los Angeles, Department of Building and Safety		X
2007	City of Los Angeles, Department of Building and Safety		X
2006	City of Los Angeles, Department of Building and Safety		X
2005	City of Los Angeles, Department of Building and Safety		X
2004	City of Los Angeles, Department of Building and Safety		X
2003	City of Los Angeles, Department of Building and Safety		X
2002	City of Los Angeles, Department of Building and Safety		X
2001	City of Los Angeles, Department of Building and Safety		X
2000	City of Los Angeles, Department of Building and Safety		X
1999	City of Los Angeles, Department of Building and Safety		X
1998	City of Los Angeles, Department of Building and Safety		X
1997	City of Los Angeles, Department of Building and Safety		X
1996	City of Los Angeles, Department of Building and Safety		
1995	City of Los Angeles, Department of Building and Safety		
1994	City of Los Angeles, Department of Building and Safety		
1993	City of Los Angeles, Department of Building and Safety		
1992	City of Los Angeles, Department of Building and Safety		
1991	City of Los Angeles, Department of Building and Safety		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	Source	TP	Adjoining
1990	City of Los Angeles, Department of Building and Safety		
1989	City of Los Angeles, Department of Building and Safety		
1988	City of Los Angeles, Department of Building and Safety		

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Los Angeles
Years: 1988-2017
Source: City of Los Angeles, Department of Building and Safety, Los Angeles, CA
Phone: (213) 482-6800

Name: Los Angeles County
Years: 1988-2017
Source: Los Angeles County, Building and Safety, HARBOR CITY, CA
Phone: (626) 458-6368

Name: San Bernardino County
Years: 2002-2017
Source: San Bernardino County, Land Use, Building & Safety, FONTANA, CA
Phone: (909) 387-8311

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

5461 Winnetka Ave
Woodland Hills, CA 91364

5461 WINNETKA AVE

Date:	**9/1/2016**
Permit Type:	
Description:	**No Plan Check USE OF LAND PERMIT FOR PUMPKIN SALES -**
Permit Description:	**Nonbldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial
Permit Number:	160263000000384
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

QUAKERTOWN AVE

5404 QUAKERTOWN AVE

Date:	**1/30/2006**
Permit Type:	
Description:	**No Plan Check T/O (E) ROOF, INSTALL HOT MOP BUILT UP ROOF SYSTEM CLASS "A" 30SQS. SMOKE DETECTORS REQUIRED.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment
Permit Number:	060162000001756
Status:	
Valuation:	$9,000.00
Contractor Company:	
Contractor Name:	STORM PROOF ROOFING INC

Date:	**8/19/2003**
Permit Type:	
Description:	**No Plan Check ELECTRICAL WORK FOR A JACUZZI REMOVAL AND CONDUITS**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	030419000018801
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EAGLE ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **10/9/2001**
Permit Type:
Description: **Plan Check Remove & replace 4 wood posts in common walkway canopy area**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment
Permit Number: 010162000019250
Status:
Valuation: $4,500.00
Contractor Company:
Contractor Name: BETHCO BUILDERS

5410 QUAKERTOWN AVE

Date: **8/12/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150421000016255
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: EMERGENCY ROOTER & PLUMBING

Date: **4/28/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 140422000119072
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: EMERGENCY ROOTER & PLUMBING

ADJOINING PROPERTY FINDINGS

Date:	**3/10/2015**
Permit Type:	
Description:	**No Plan Check 22 patio door change-out (same size & t pe) for residential buildings, UNITS #101, 102, 104, 105, 106, 107, 108, 109, 111, 113, 114, 115, 201, 202, 204, 205, 206, 207, 208, 209, 216, 217. Dual glazing, labeled and certified by National Fenestration Rating Council (NFRC), is required for doors and windows replaced in all residential buildings, three stories or less, per Section 152(b) of Title 24.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	150162000005048
Status:	
Valuation:	$26,000.00
Contractor Company:	
Contractor Name:	KRUPER B H RENOVATION

Date:	**2/24/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	150421000002249
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EMERGENCY ROOTER & PLUMBING

ADJOINING PROPERTY FINDINGS

Date:	**2/23/2015**
Permit Type:	
Description:	**No Plan Check FRENCH door change-out (same size & typ) for residential buildings. Dual glazing, labeled and certified by National Fenestration Rating Council (NFRC), is required for doors replaced in all residential buildings, three stories or less, per Section 152(b) of Title 24.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	150161000003896
Status:	
Valuation:	$2,000.00
Contractor Company:	
Contractor Name:	KRUPER B H RENOVATION

Date:	**11/25/2014**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL PERMIT TO CHANGE ADDRESS F OM 5410 QUAKERTOWN, INSTALL SMOKE DETECTORS AND CIRCUITS.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Apartment
Permit Number:	140412000128703
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	COSS JOHN ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **10/16/2014**
Permit Type:
Description: **No Plan Check TENANT IMPROVEMENT**

Permit Description: **Electrical**
Work Class:
Proposed Use: Apartment
Permit Number: 140412000028703
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COSS JOHN ELECTRIC

Date: **10/1/2014**
Permit Type:
Description: **No Plan Check REPLACE WATER HEATERS**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 140422000019072
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: EMERGENCY ROOTER & PLUMBING

Date: **11/15/2012**
Permit Type:
Description: **No Plan Check Re-roof with Class A or B material weigh ing less than 6 pound per sq. ft.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 120162000023213
Status:
Valuation: $32,500.00
Contractor Company:
Contractor Name: ARCHADEL INC

ADJOINING PROPERTY FINDINGS

Date: **3/27/2003**
Permit Type:
Description: **No Plan Check INSTALLATION OF SMOKE DETECTORS. UNITS # 216, 101, 103, 105, 108, 201, 203, 205, 208, 102, 104, 106, 109, 202, 204, 206 & 209.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 030411000006588
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GAMEZ ELECTRIC

Date: **1/18/2002**
Permit Type:
Description: **No Plan Check REROOF WITH HOT MOP. (30 SQS)**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 020161000001191
Status:
Valuation: $5,000.00
Contractor Company:
Contractor Name: J P ROOFING

ADJOINING PROPERTY FINDINGS

5422 QUAKERTOWN AVE

Date:	**5/8/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	150421000009263
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EMERGENCY ROOTER & PLUMBING

Date:	**4/28/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	140422000219076
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EMERGENCY ROOTER & PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **3/10/2015**
Permit Type:
Description: **No Plan Check 17 patio door change-out (same size & t pe) for residential buildings. UNITS 101, 102, 104, 107, 108, 109, 112, 114, 115, 207, 208, 209, 212, 214, 215,216, 217. Dual glazing, labeled and certified by National Fenestration Rating Council (NFRC), is required for doors and windows replaced in all residential buildings, three stories or less, per Section 152(b) of Title 24.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 150162000005055
Status:
Valuation: $20,000.00
Contractor Company:
Contractor Name: KRUPER B H RENOVATION

Date: **2/24/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150421000002243
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: EMERGENCY ROOTER & PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **10/30/2014**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT 14042-20000-19076 T ADD (1) WATER HEATER**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 140421000119076
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: EMERGENCY ROOTER & PLUMBING

Date: **10/1/2014**
Permit Type:
Description: **No Plan Check REPLACE WATER HEATER**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 140422000019076
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: EMERGENCY ROOTER & PLUMBING

Date: **9/25/2013**
Permit Type:
Description: **No Plan Check Re-roof with Class A or B material weigh ing less than 6 pound per sq. ft.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 130162000019851
Status:
Valuation: $38,000.00
Contractor Company:
Contractor Name: ADCO ROOFING INC

ADJOINING PROPERTY FINDINGS

Date: **11/15/2012**
Permit Type:
Description: **No Plan Check Re-roof with Class A or B material weigh ing less than 6 pound per sq. ft.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 120162000023214
Status:
Valuation: $32,500.00
Contractor Company:
Contractor Name: ARCHADEL INC

Date: **10/24/2005**
Permit Type:
Description: **No Plan Check REPIPE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 050422000026593
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: NEILSON ROY PLUMBING

Date: **3/27/2003**
Permit Type:
Description: **No Plan Check INSTALLATION OF SMOKE DETECTORS. UNITS #108, 111, 208, 212, 214, 216, 110, 112, 207, 210, 213, 215 & 217.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 030411000006587
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GAMEZ ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **1/18/2002**
Permit Type:
Description: **No Plan Check TEAR OFF AND REROOF WITH HOT MOP. (35 SQS)**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 020161000001194
Status:
Valuation: $5,500.00
Contractor Company:
Contractor Name: J P ROOFING

Date: **2/9/2000**
Permit Type:
Description: **No Plan Check UNDERGROUND CONDUIT REPAIRS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 000411000002462
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GAMEZ ELECTRIC

Date: **1/31/2000**
Permit Type:
Description: **No Plan Check INSTALL 2 SUB-FEEDS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 000412000001889
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: STEWART FRED SIGN SERVICE FRED STEWART ELECTRIC SERVICE

ADJOINING PROPERTY FINDINGS

5429 QUAKERTOWN AVE

Date:	**12/12/2007**
Permit Type:	
Description:	**No Plan Check 100 AMP PANEL FOR AT&T FIBER NODE. RELEASE TO LADWP AS: 5400 WINNETKA AVE TEL 1 (6052005)**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	070412000029775
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	NORTHWEST EXCAVATING INC

5440 QUAKERTOWN AVE

Date:	**4/17/2008**
Permit Type:	
Description:	**No Plan Check copper repipe 28 unit apt. building**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	080429000007231
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PACIFIC COAST COPPER REPIPE COMPANY

ADJOINING PROPERTY FINDINGS

Date: **2/26/2003**
Permit Type:
Description: **Plan Check REPLACE JACK ASSEMBLY. ELEVATOR STATE # 40947.**

Permit Description: **Elevator**
Work Class:
Proposed Use: Commercial
Permit Number: 030461000000205
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: AMTECH ELEVATOR SERVICES

Date: **12/5/2000**
Permit Type:
Description: **No Plan Check DOOR PACKAGE. NO ELEVATOR STATE NUMBER PROVIDED.**

Permit Description: **Elevator**
Work Class:
Proposed Use: Commercial
Permit Number: 000461000001022
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: AMTECH ELEVATOR SERVICES

5480 QUAKERTOWN AVE

Date: **6/15/2010**
Permit Type:
Description: **No Plan Check INSTALL EARTHQUAKE SHUT OFF VALVE.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 100422000009864
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: DRIP STOPPER PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **4/27/2010**
Permit Type:
Description: **No Plan Check RELOCATE TOILET AND REPLACE SINK**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 100422000006849
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: DRIP STOPPER PLUMBING

Date: **7/1/2004**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT FOR 2 WATER HEATERS.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 040422000111326
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ALL PRO COPPER REPIPES

Date: **4/20/2004**
Permit Type:
Description: **Plan Check Copper repipe. 2" meter, no backflow protection. sized on 16 psi/100 feet. 110/85 psi H/L water pressure.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 040422000011326
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ALL PRO COPPER REPIPES

ADJOINING PROPERTY FINDINGS

Date: **3/24/2004**
Permit Type:
Description: **No Plan Check REPLACE GAS LINE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 040422000008666
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: JIM'S PLUMBING

SANTA RITA ST

20120 SANTA RITA ST

Date: **2/13/2017**
Permit Type:
Description: **No Plan Check Complete work done under previously exp**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 170162000003290
Status:
Valuation: $10,600.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date: **2/13/2017**
Permit Type:
Description: **No Plan Check Complete work done under previously exp**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 170162000003296
Status:
Valuation: $2,500.00
Contractor Company:
Contractor Name: OWNER-BUILDER

Date: **1/14/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 150412000001117
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: UNITECH CONSTRUCTION GROUP INC

Date: **12/29/2014**
Permit Type:
Description: **Plan Check SUPPLEMENTAL TO PERMIT # 14014-20000-05 34: TO INCLOSE (E) 10'-6" x 8'-6" BREEZWAY / PATIO COVER UNDER (E) ROOF TO ADD NEW HALLWAY.**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 140142000105134
Status:
Valuation: $4,000.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date:	**11/26/2014**
Permit Type:	
Description:	**Plan Check CONVERT (E) 19'X 21'10" GARAGE TO BED/ CLOSETS, CONVERT (E) LAUNDRY TO FULL BATH, ENLARGE WINDOW TO (E) BATH ROOM, REPLACE DAMAGE 4X10 HEADER W/ 6X 10, ADD NEW WINDOWS IN (E) FAMILY AND LIVING ROOM , ADD 18'X 18' 2-CAR CARPORT PER CITY STANDARD AND KITCHEN REMODEL.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	140142000005134
Status:	
Valuation:	$53,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**11/18/2014**
Permit Type:	
Description:	**No Plan Check Kitchen/2 bathroom remodel for resident al buildings (no structural changes). Re-stucco service panel. Replace drywall (no new walls added) for residential buildings only.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	140162000022867
Status:	
Valuation:	$12,500.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date: **10/15/2014**
Permit Type:
Description: **No Plan Check Installation of SGSOV**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 140429000020020
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: METRO RETROFITTING INC

Date: **9/7/2005**
Permit Type:
Description: **No Plan Check INSTALL SUB WATER METER**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 050422000022622
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

20132 SANTA RITA ST

Date: **8/1/2013**
Permit Type:
Description: **No Plan Check change out upflow split system**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 130449000008010
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CANOGA PARK HEATING & AIR CONDITIONING CO INC

ADJOINING PROPERTY FINDINGS

Date: **4/22/2008**
Permit Type:
Description: **No Plan Check sub meter**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 080429000007575
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

Date: **4/14/2004**
Permit Type:
Description: **No Plan Check excavation & backfill for new spa, 10 c.y. total cut & export**

Permit Description: **Grading**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Grading/Hillside
Permit Number: 040302000001166
Status:
Valuation: $10.00
Contractor Company:
Contractor Name: SUTTON POOL WORKS

Date: **4/14/2004**
Permit Type:
Description: **Plan Check (N) GUNITE SPA (7' DIA.), REPLASTER AND RETILE (E) POOL (NO STRUCTURAL DAMAGE) PER STD PLAN #267.**

Permit Description: **Swimming-Pool/Spa**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Suimming Pools/Spa
Permit Number: 040472000000538
Status:
Valuation: $13,351.00
Contractor Company:
Contractor Name: SUTTON POOL WORKS

ADJOINING PROPERTY FINDINGS

Date: **9/12/2003**
Permit Type:
Description: **No Plan Check New 200amp panel**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030419000020909
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: FURST ELECTRIC

VENTURA BLVD

20052 VENTURA BLVD

Date: **12/3/1997**
Permit Type:
Description: **No Plan Check add 6 inlets and outlets fantastic sams**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 970442000008727
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WALTERS JIM CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **11/10/1997**
Permit Type:
Description: **No Plan Check ADDING 18 NEW CIRCUITS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 970412000018819
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WALTERS JIM CONSTRUCTION

Date: **11/10/1997**
Permit Type:
Description: **No Plan Check ADDING 5 FIXTURES, WATER HEATER, WH VENT, LP GAS OUTLET**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 970422000012061
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WALTERS JIM CONSTRUCTION

Date: **11/10/1997**
Permit Type:
Description: **No Plan Check ADDING 1 DRYER VENT**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 970442000007928
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WALTERS JIM CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **10/14/1997**
Permit Type:
Description: **No Plan Check INSTALL GAS MAIN**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 970422000010532
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: J P O'HEARN PLUMBING

20054 VENTURA BLVD

Date: **7/2/2013**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT TO ADD BACKFLOW DEVI CE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 130421000210550
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: K D C CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**6/28/2013**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL PERMIT FOR FIXTURES, EQ VAL VE, BACKWATER VALVE AND WASTE/VENT**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	130421000110550
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	K D C CONSTRUCTION

Date:	**6/28/2013**
Permit Type:	
Description:	**No Plan Check CHANGE OUT 2 PACKAGE UNITS. "COMPLY WI TH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE".**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	130442000006731
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HALE REFRIGERATION

ADJOINING PROPERTY FINDINGS

Date:	**6/3/2013**
Permit Type:	
Description:	**No Plan Check REPLACE (E) FLOOR SINKS & OTHER SINKS. " Per the applicant, the project is approved by the Los Angeles County Health Department and City of Los Angeles Bureau of Sanitation" COMPLY W/ DEPT ORDER DATED 4/11/06. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	130421000010550
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	K D C CONSTRUCTION

Date:	**5/24/2013**
Permit Type:	
Description:	**Plan Check INTERIOR TENANT IMPROVEMENT OF EXISTING STARBUCKS COFFEE; NEW FURNITURE, EQUIPMENT, COUNTER, AND NON STRUCTURAL PARTITION WALLS; COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Restaurant
Permit Number:	130161000006600
Status:	
Valuation:	$70,000.00
Contractor Company:	
Contractor Name:	K D C CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**5/24/2013**
Permit Type:	
Description:	**No Plan Check 13041-10000-08695 T24 FOR EXISTING STARB UCKS COFFEE. 1374 SQRFT. ELECTRICAL PERMIT TO BE PULLED AT ELECTRICAL PLAN CHECK COUNTER ONLY.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	130411000013620
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CIRKS CONSTRUCTION INC

Date:	**5/24/2013**
Permit Type:	
Description:	**No Plan Check INSTALL NEW SMOKE DETECTOR & AIR INLETS/ OUTLETS. COMPLY WITH DEPARTMENT ORDER EFFECTIVE 4/11/2006, PERMIT TO EXPIRE 30-DAYS FROM DATE OF ISSUANCE.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	130441000005340
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	K D C CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**6/2/2008**
Permit Type:	
Description:	**No Plan Check INSTALL 20 AMP. CIRCUIT FOR ICE BLENDER (STARBUCKS)**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	080412000012205
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RIVERLAND ELECTRIC INC

Date:	**4/16/2008**
Permit Type:	
Description:	**Plan Check TENANT IMPROVEMENTS FOR EXISTING STARBUCKS COFFEE -- INTERIOR REMODEL ONLY, NO STRUCTURAL WORK**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Restaurant
Permit Number:	080161000004990
Status:	
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	KDC CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**4/16/2008**
Permit Type:	
Description:	**No Plan Check T.I. TO AN EXISTING STARBUCKS. (2 OF 2 W/PERMIT# 08042-10000-7215) Comply with department order effective date 4/11/06. Permit will expire 30 days from issuance date.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	080411000008443
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KDC CONSTRUCTION

Date:	**4/16/2008**
Permit Type:	
Description:	**No Plan Check T.I. TO AN EXISTING STARBUCKS. (1 OF 2 W/PERMIT# 08041-10000-08443) Comply with department order effective date 4/11/06. Permit will expire 30 days from issuance date.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	080421000007215
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KDC CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**4/10/2007**
Permit Type:	
Description:	**Plan Check adding 400 cfm supply grill over the turbo oven**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	070441000003654
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BRODY HEATING AIR CONDITIONING & ELECTRICAL CONTRACTORS INC

Date:	**3/22/2007**
Permit Type:	
Description:	**No Plan Check "COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE". SUPPLEMENTAL PERMIT FOR 1 20 AMP. CIRCUIT AND 2-30 AMP. CIRCUITS.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	070412000103562
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RIVERLAND ELECTRIC INC

ADJOINING PROPERTY FINDINGS

Date:	**2/14/2007**
Permit Type:	
Description:	**No Plan Check ADD CIRCUIT FOR INSTALLATION OF OUTLET FOR DOOR FLLY FAN (STARBUCKS). "COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE".**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	070412000003562
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RIVERLAND ELECTRIC INC

Date:	**12/8/2006**
Permit Type:	
Description:	**No Plan Check COMPLY WITH DEPARTMENT ORDER EFFECTIVE DATE 4-11-06 - PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE (CASE NO. 171302) - INSTALL 2 CIRCUITS FOR OUTLETS**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	060412000030401
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TIGER ELECTRIC INC

ADJOINING PROPERTY FINDINGS

Date: **10/16/1998**
Permit Type:
Description: **Plan Check Revise 97VN25596 (97016-20000-21422) to change number of existing parking to 270 and existing HC parking to 8.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Restaurant
Permit Number: 980162000020925
Status:
Valuation: $301.00
Contractor Company:
Contractor Name: OWNER-BUILDER

Date: **11/24/1997**
Permit Type:
Description: **No Plan Check NEW TOILET, AND REFRIG.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 970442000008461
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MENEMSHA DEVELOPMENT GROUP

Date: **11/17/1997**
Permit Type:
Description: **Plan Check PLATTFORM AND ANCHORAGE FOR WATER HEATER.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Restaurant Restaurant
Permit Number: 970162000026851
Status:
Valuation: $1,500.00
Contractor Company:
Contractor Name: MENEMSHA DEVELOPMENT GROUP

ADJOINING PROPERTY FINDINGS

Date: **11/12/1997**
Permit Type:
Description: **Plan Check HVAC,MISC**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 970442000006204
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ADVANCED AIR SYSTEMS

Date: **10/30/1997**
Permit Type:
Description: **Plan Check Install three illuminated wall signs: (1) 3'-6"x14'-6" and (1) 3' diameter logo sign fronting Winnetka Avenue; and install (1) 3' diameter logo sign fronting Quartertown Avenue.**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 970482000001572
Status:
Valuation: $3,115.00
Contractor Company:
Contractor Name: PROMOTIONAL SIGNS UNLIMITED

Date: **10/21/1997**
Permit Type:
Description: **Plan Check ADD TWO A/C UNIT PLATFORM ON ROOF (MAX. WEIGHT =760 #)**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Restaurant
Permit Number: 970162000121422
Status:
Valuation: $5,000.00
Contractor Company:
Contractor Name: MENEMSHA DEVELOPMENT GROUP

ADJOINING PROPERTY FINDINGS

Date: **10/20/1997**
Permit Type:
Description: **Plan Check TENANT IMPROVEMENT**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 970412000015072
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: STARMAN ELECTRICAL CONTRACTING & DESIGN

Date: **10/17/1997**
Permit Type:
Description: **No Plan Check STARBUCKS COFFEE REMODEL.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 970423000010758
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: THOMPSON PLUMBING SERVICE

Date: **10/14/1997**
Permit Type:
Description: **No Plan Check INSTALL GAS MAIN**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 970422000010534
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: J P O'HEARN PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **10/10/1997**
Permit Type:
Description: **Plan Check Change use from beauty salon to Restaurant (coffee shop).**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail Restaurant
Permit Number: 970162000021422
Status:
Valuation: $30,000.00
Contractor Company:
Contractor Name: MENEMSHA DEVELOPMENT GROUP

20058 VENTURA BLVD

Date: **10/27/2005**
Permit Type:
Description: **Plan Check INSTALLATION OF INTERNALLY ILLUMINATED CHANNEL LETTERS. 7 LETTERS. SIGN TO READ "POSTNET" 24" HIGH X 14'-0" LONG (SAME LENGTH AS TENANT SPACE)**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 050481000001210
Status:
Valuation: $600.00
Contractor Company:
Contractor Name: P S SERVICES

ADJOINING PROPERTY FINDINGS

Date: **9/7/2005**
Permit Type:
Description: **No Plan Check CHANGE OUT HVAC (4-TON GAS/ELECTRIC PACKAGE UNIT)**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 050442000008971
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: W W ENTERPRISES

Date: **8/24/2005**
Permit Type:
Description: **Plan Check title 24**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 050413000015918
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CAL-STAR ELECTRIC

Date: **5/24/2005**
Permit Type:
Description: **Plan Check T.I. EXIST RETAIL SPACE FOR RETAIL MAIL BOX STORE.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail
Permit Number: 050162000008117
Status:
Valuation: $10,000.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date: **5/1/2001**
Permit Type:
Description: **Plan Check new 3' 4" x 8'4" illum. wall sign.**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 010482000000655
Status:
Valuation: $1,500.00
Contractor Company:
Contractor Name: CAL-NOVA SIGNS

Date: **11/3/1998**
Permit Type:
Description: **Plan Check INSTALL ONE 9'-6"X 4'-6"(42 S.F) ILLUMINATED CHANNEL LETTERS WALL SIGN TO READ AS "WOLF CAMERA"AND FRONTING ON VENTURA BLVD.**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 980481000001782
Status:
Valuation: $2,200.00
Contractor Company:
Contractor Name: ELRO MANUFACTURING

ADJOINING PROPERTY FINDINGS

20060 VENTURA BLVD

Date: **1/13/2015**
Permit Type:
Description: **Plan Check Remove and replace walk-in cooler in (E retail.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail
Permit Number: 140161000016749
Status:
Valuation: $45,000.00
Contractor Company:
Contractor Name: MARZOLA CONSTRUCTION CO

Date: **1/13/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 150411000001016
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MARZOLA CONSTRUCTION CO

Date: **1/13/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 150441000000334
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MARZOLA CONSTRUCTION CO

ADJOINING PROPERTY FINDINGS

Date: **7/22/2014**
Permit Type:
Description: **Plan Check REPLACE REFRIGERATED (FROZEN) CASES INS DE (E) MARKET. COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail
Permit Number: 140161000005841
Status:
Valuation: $50,000.00
Contractor Company:
Contractor Name: HUSSMANN SERVICES CORPORATION

Date: **7/31/2013**
Permit Type:
Description: **No Plan Check INSTALL (2) LEVEL 2 EV CHARGING STATIONS .**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 130412000020356
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ON TARGET ELECTRIC INC

ADJOINING PROPERTY FINDINGS

Date:	**5/10/2013**
Permit Type:	
Description:	**Plan Check CREATE 4 OUTDOOR GENERAL SEATING AREAS F OR TAFT PLAZA (NO FOOD SERVED) AND REPAVED WALKWAY .**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail
Permit Number:	120162000020015
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	GLUCK DEVELOPMENT COMPANY INC

Date:	**5/10/2013**
Permit Type:	
Description:	**Plan Check REGRADING (E) ADA PATH OF TRAVEL AND WAL KWAY ALONG THE BUILDING**
Permit Description:	**Grading**
Work Class:	
Proposed Use:	Commercial Grading/Hillside
Permit Number:	120302000004964
Status:	
Valuation:	$51.00
Contractor Company:	
Contractor Name:	GLUCK DEVELOPMENT COMPANY INC

ADJOINING PROPERTY FINDINGS

Date:	**2/21/2012**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL PERMIT TO PERMIT #12044-200 -00643 FOR COMPRESSOR AND WITNESS TEST."COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE".**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120442000100643
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOURCE REFRIGERATION & HVAC INC

Date:	**1/19/2012**
Permit Type:	
Description:	**No Plan Check REMOVE AND REPLACE ROOF TOP A/C UNIT. CO MPLY WITH DEPARTMENT ORDER DATE: 4/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120442000000643
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOURCE REFRIGERATION & HVAC INC

ADJOINING PROPERTY FINDINGS

Date: **8/30/2011**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL TO PERMIT #11041-10000-13873 TO INSTALL SEISMIC WIRES TO SUPPORT SPEAKERS ON TBAR CEILING. SPEAKERS ARE (E).**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 110411000113873
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: R S V C COMPANY

Date: **7/29/2011**
Permit Type:
Description: **Plan Check NEW EXCAVATION FOR GREASE INTERCEPTOR.**

Permit Description: **Grading**
Work Class:
Proposed Use: Commercial Grading/Hillside
Permit Number: 110302000003572
Status:
Valuation: $88.00
Contractor Company:
Contractor Name: KIRKLEY CORPORATION INC

Date: **7/27/2011**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT FOR GREASE TRAP**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 110422000100248
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: KIRKLEY CORPORATION INC

ADJOINING PROPERTY FINDINGS

Date:	**7/5/2011**
Permit Type:	
Description:	**No Plan Check INSTALL DATA CABLING (CAT 5) THROUGHOUT DEPARTMENTS WITHIN THE GROCERY STORE TO COMPUTER ROOM.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	110411000013873
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	R S V C COMPANY

Date:	**6/17/2011**
Permit Type:	
Description:	**Plan Check COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE Plan check for overhead Tl. Ralphs.**
Permit Description:	**Fire Sprinkler**
Work Class:	
Proposed Use:	Commercial
Permit Number:	110432000001507
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A K M FIRE INC

ADJOINING PROPERTY FINDINGS

Date:	**6/7/2011**
Permit Type:	
Description:	**Plan Check RETAIL TI (MARKET), CREATE NEW ELECTRICAL ROOM, CHANGE OUT FIXTURES AND RENOVATE MEAT, DELI, BAKERY, AND PRODUCE PREP AREAS. NEW NON LOAD BEARING PARTITIONS. SEE COMMENTS. COMPLY WITH DEPARTMENT ORDER EFFECTIVE DATE 4/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail
Permit Number:	110162000000915
Status:	
Valuation:	$1,700,000.00
Contractor Company:	
Contractor Name:	KIRKLEY CORPORATION INC

Date:	**6/7/2011**
Permit Type:	
Description:	**Plan Check Plan check power and energy for Ralph market interior remodel. Plan check for power and energy. "COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE".**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	110412000000724
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KIRKLEY CORPORATION INC

ADJOINING PROPERTY FINDINGS

Date:	**6/7/2011**
Permit Type:	
Description:	**Plan Check PLUMBING IMPROVEMENT FOR AN EXISTING RALPH'S MARKET ON WATER, WASTE, GREASE WASTE, GAS, AND COMBINATION WASTE AND VENT SYSTEMS. EXISTING METER 2" DOMESTIC METER, WITH NEW 3" PRV, DESIGN PRESSURE IS 3.4 PSI/100', HI-LOW PRESS IS 125/70 PSI. "COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE."**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	110422000000248
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KIRKLEY CORPORATION INC

Date:	**6/7/2011**
Permit Type:	
Description:	**Plan Check HVAC IMPROVEMENT FOR AN EXISTING RALPH'S MARKET. NEW TYPE - II COMMERCIAL KITCHEN HOOD (INTEGRAL TO OVEN) EXHAUST SYSTEM AND PROCESS COOLING FOR A COMPUTER ROOM. "COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE."**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	110442000000232
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KIRKLEY CORPORATION INC

ADJOINING PROPERTY FINDINGS

Date:	**1/21/2011**
Permit Type:	
Description:	**No Plan Check ELECTRICAL FOR: CHANGE OUT REFRIGERATOR END CASES ON PRODUCE AISLE. "COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE". All permits shall be for the same time period limitation.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	110412000001278
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HUSSMANN CORPORATION

Date:	**1/21/2011**
Permit Type:	
Description:	**No Plan Check CHANGE OUT REFRIGERATOR END CASES ON PRODUCE AISLE. "COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE". All permits shall be for the same time period limitation.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	110442000000809
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HUSSMANN CORPORATION

ADJOINING PROPERTY FINDINGS

Date:	**4/16/2009**
Permit Type:	
Description:	**No Plan Check Reroofs with built up roofing for commercial bldgs, residential high-rise bldgs, hotel/motels only does not apply to SFD's: COMPLY WITH DEPARTMENT ORDER DATED 04/11/2006. PERMIT WILL EXPIRE 30-DAYS FROM ISSUANCE DATE. (REPALCE PLYWOOD AS NEEDED)**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail
Permit Number:	090161000005379
Status:	
Valuation:	$85,000.00
Contractor Company:	
Contractor Name:	HOWARD ROOFING COMPANY INCORPORATED

Date:	**4/2/2009**
Permit Type:	
Description:	**Plan Check INSTALL (2) SETS WALL SIGN ILLUMINATED CHANNEL LETTERS MEASURING 3'-5 3/8" (H) X 13'-4 3/4" (L). (2) NON-ILLUMINATED PANELS MEASURING 1'-6" X 10'-0" TO BE INSTALLED INSIDE THE STORE. COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	090481000000514
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	B K SIGNS INC

ADJOINING PROPERTY FINDINGS

Date:	**2/18/2009**
Permit Type:	
Description:	**Plan Check SUPPLEMENTAL PERMIT TO ORIGINAL PERMIT #: 08020-20000-00930 - USE OF LAND: RELOCATE (E) 16' X 20' RECYLCING CENTER WITH (2) - 8' X 21' RECYCLING CENTER BUYBACK & REVERSE VENDING MACHINES IN CONJUNCTION WITH GROCERY MARKET. SEE COMMENTS. COMPLY WITH DEPARTMENT ORDER EFFECTIVE DATE 4/11/06. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**Nonbldg-New**
Work Class:	
Proposed Use:	Commercial
Permit Number:	080202000100930
Status:	
Valuation:	$501.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

C.O. Issued Date:	**7/21/2009**
Date:	**4/28/2008**
Permit Type:	
Description:	**Plan Check USE OF LAND FOR 16' X 20' RECYCLING CENTER BUYBACK & REVERSE VENDING MACHINES IN CONJUNCTION WITH GROCERY MARKET (USING 4 PKG SPACES). SEE COMMENTS. COMPLY WITH DEPARTMENT ORDER EFFECTIVE DATE 4/11/06. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**Nonbldg-New**
Work Class:	
Proposed Use:	Commercial
Permit Number:	080202000000930
Status:	
Valuation:	$10,200.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date: **8/14/2006**
Permit Type:
Description: **No Plan Check REPLACE EXISTING EQ VALVE.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 060429100018053
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MIDTOWN PLUMBING INC

Date: **7/10/2006**
Permit Type:
Description: **No Plan Check COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE".SUPPLEMENTAL PERMIT FOR 16-20 AMP. AND 6- 3.1-5 KVA BR. CIRCUITS.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 060411000114959
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: FIVE STAR ELECTRICAL CONTRACTORS INC

ADJOINING PROPERTY FINDINGS

Date:	**7/3/2006**
Permit Type:	
Description:	**No Plan Check INSTALL 3 COMP. SINK, FLOOR DRAIN, DIPPER WELL, TEA & COFFEE EXPRSSO MACHINE, DOUBLE BREWER AND ICE MAKER. "COMPLY WITH DEPARTMENT ORDER effective date 04/11/2006. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE".**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	060422000014760
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	G C BUILDERS INC

Date:	**6/20/2006**
Permit Type:	
Description:	**No Plan Check 200AMP SERVICE FOR FREE-STANDING KIOSK IN (E) RALPHS STORE. COMPLY W/ DEPT ORDER DATED 04/11/06. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	060411000014959
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FIVE STAR ELECTRICAL CONTRACTORS INC

ADJOINING PROPERTY FINDINGS

Date: **6/8/2006**
Permit Type:
Description: **No Plan Check ADD (2) FLOOR SINKS AND (1) HAND SINK FOR NEW COFFEE BAR. TO COMPLY W/ DEPT. ORDER DATED 04-11-06. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 060421000012904
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: K C PLUMBING

Date: **6/2/2006**
Permit Type:
Description: **Plan Check (N) COFFEE BEAN 9'-0" x 17'-0"KIOSK AT NW ENTRANCE WITHIN (E) GROCERY STORE**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail
Permit Number: 060161000007296
Status:
Valuation: $40,000.00
Contractor Company:
Contractor Name: G C BUILDERS INC

ADJOINING PROPERTY FINDINGS

Date: **11/10/2005**
Permit Type:
Description: **Plan Check INTERIOR T.I. FOR RALPHS. Install one Type 1 and one Type II hoods, two evaporative coolers.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 050442000011663
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: HUSSMANN CORPORATION

Date: **11/9/2005**
Permit Type:
Description: **No Plan Check Remove and replace existing refrigerated cases. Install 3 new refrigeration units.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 050449000011617
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: HUSSMANN CORPORATION

Date: **10/13/2005**
Permit Type:
Description: **Plan Check T-24 AND EM EGRESS LIGHTING.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 030412000022189
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: HART BROS ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **10/12/2005**
Permit Type:
Description: **No Plan Check tenant improvement**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 050429000025632
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GARDNER PIPE & MECHANICAL

Date: **10/5/2005**
Permit Type:
Description: **Plan Check INTERIOR T.I. FOR RALPHS. *** REVISE PLANS*****

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail
Permit Number: 030162000019392
Status:
Valuation: $100,000.00
Contractor Company:
Contractor Name: LAYNE W R CONSTRUCTION & ENGINEERING

Date: **9/29/2005**
Permit Type:
Description: **No Plan Check CENTRAL STATION SPRINKLERS MORNITORING.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 050411000023947
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: POST ALARM SYSTEMS

ADJOINING PROPERTY FINDINGS

Date:	**10/7/2002**
Permit Type:	
Description:	**Plan Check INSTALL (2) TWO ILLUM CHANNEL LETTER WALL SIGNS 22' X 22" (40.34 SQFT) THAT READ "DOWNEY SAVINGS".**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	020481000001013
Status:	
Valuation:	$4,000.00
Contractor Company:	
Contractor Name:	PROMOTIONAL SIGNS

Date:	**4/27/1999**
Permit Type:	
Description:	**No Plan Check Install banners temporary to read "HOME SAVING OF AMERICA"**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	990482000100168
Status:	
Valuation:	$301.00
Contractor Company:	
Contractor Name:	TRIPLE A NEON CO

ADJOINING PROPERTY FINDINGS

Date: **1/28/1999**
Permit Type:
Description: **Plan Check 3 NEW ILLUM. WALL SIGN (2 X 20.75) ALL TO READ "WASHINGTON MUTUAL". SIGN A TO FACE VENTURA BLD; SIGN B TO FACE WINNETKA BLVD; SIGN C TO FACE SOUTH PARKING AREA.**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 990482000000168
Status:
Valuation: $18,000.00
Contractor Company:
Contractor Name: TRIPLE A NEON CO

Date: **10/29/1998**
Permit Type:
Description: **No Plan Check REFRIGERATION CASE**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 980442000009438
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: G H V REFRIGERATION INC

Date: **10/21/1998**
Permit Type:
Description: **No Plan Check TI FOR LIGHTS AND CASE WORK**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 980411000023491
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COLONIAL ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **10/13/1998**
Permit Type:
Description: **No Plan Check REPLACE POR INTERIOR SLAB.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail
Permit Number: 980162000021804
Status:
Valuation: $3,000.00
Contractor Company:
Contractor Name: PERRY K C INC

Date: **1/28/1998**
Permit Type:
Description: **Plan Check PROPOSED 7 WALL SIGNS- 3 ILLUMINATED AND 4 NON ILLUMINATED REMOVE EXISTING WALL SIGN AND REPLACE W/ NEW IN SAME LOCATION**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 980482000000229
Status:
Valuation: $4,000.00
Contractor Company:
Contractor Name: SIGNTECH ELECTRICAL ADVERTISING

ADJOINING PROPERTY FINDINGS

20101 VENTURA BLVD

Date:	**3/25/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	160412000207924
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	POWER PLUS

Date:	**3/22/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	160412000107924
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	POWER PLUS

ADJOINING PROPERTY FINDINGS

Date: **7/21/2009**
Permit Type:
Description: **Plan Check GRADING PERMIT - REMOVAL OF UNDERGROUND STORAGE TANKS AND PRODUCT PIPING, FILL AND RECOMPACTION.**

Permit Description: **Grading**
Work Class:
Proposed Use: Commercial Grading/Hillside
Permit Number: 090301000002691
Status:
Valuation: $750.00
Contractor Company:
Contractor Name: J J C CONSULTING & CONSTRUCTION A PARTNERSHIP

Date: **7/21/2009**
Permit Type:
Description: **No Plan Check SEWER CAP FOR WATER CLARIFIER.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 090421000012376
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: J J C CONSULTING & CONSTRUCTION A PARTNERSHIP

Date: **7/7/2009**
Permit Type:
Description: **Plan Check DEMOLISH APPROX. 15'X40' ONE STORY DETACHED CAR WASH; USE HANDWRECKING METHOD ; SEWER CAP AND FENCE REQUIRED.**

Permit Description: **Bldg-Demolition**
Work Class:
Proposed Use: Commercial Gas Service Station Misc. Bldg or Structure
Permit Number: 090191000001175
Status:
Valuation: $10,000.00
Contractor Company:
Contractor Name: ADVANCED REMEDIAL SERVICES INC

ADJOINING PROPERTY FINDINGS

Date: **7/7/2009**
Permit Type:
Description: **No Plan Check Sewer cap permit**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 090421000011241
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ADVANCED REMEDIAL SERVICES INC

Date: **12/20/2007**
Permit Type:
Description: **Plan Check PROPOSED 6'-4" X 6'-7" CONCRETE SLAB WITH 11'-0" HIGH SCREENING FOR ABOVE GROUND GAS VAPOR TANK.**

Permit Description: **Nonbldg-New**
Work Class:
Proposed Use: Commercial Warehouse
Permit Number: 070201000003991
Status:
Valuation: $8,000.00
Contractor Company:
Contractor Name: DRESSER INC

Date: **9/18/2006**
Permit Type:
Description: **Plan Check CREATE 3 OPENINGS (6'8" x 8') AT SOUTH SIDE OF CAR WASH BUILDING.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Gas Service Station
Permit Number: 060161000001608
Status:
Valuation: $30,000.00
Contractor Company:
Contractor Name: I C CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **12/14/2004**
Permit Type:
Description: **No Plan Check INSTALL CIRCUIT FOR NEON SIGN**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 040412000031083
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ARTISTIC SIGNS & GRAPHICS

Date: **12/14/2004**
Permit Type:
Description: **Plan Check REMOVE 2 (E) CHANNEL LETTER SIGNS AND INSTALL 2 ILLUMINATED WALL SIGNS. SIGN #1 - (3'X 8'4"), SIGN #2 - (3'X 8'4") PER DIR 2004-5823-SPP.**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 040482000000378
Status:
Valuation: $5,424.00
Contractor Company:
Contractor Name: ARTISTIC SIGNS & GRAPHICS

Date: **9/20/2001**
Permit Type:
Description: **No Plan Check RE-PIPE - NO NEW BREAKERS OR CIRCUITS (GAS STATION).**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 010411000019752
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MOMPOS CONSTRUCTION CO INC

ADJOINING PROPERTY FINDINGS

Date: **11/3/1997**
Permit Type:
Description: **No Plan Check LEAK DETECTION SYSTEM**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 970412000018331
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: BRINDERSON CONSTRUCTORS INC

Date: **10/20/1997**
Permit Type:
Description: **No Plan Check replace 4 gas dispensers**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 970412000017250
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ADVANCE PETROLEUM CORPORATION

ADJOINING PROPERTY FINDINGS

20137 VENTURA BLVD

Date:	**10/1/2012**
Permit Type:	
Description:	**Plan Check Replace (E)portion of vehicle damaged wa ll/storefront < 10%. COMPLY WITH DEPARTMENT ORDER effective date 10/26/2009. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Restaurant
Permit Number:	120162000017344
Status:	
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

20205 VENTURA BLVD

Date:	**12/16/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Elevator**
Work Class:	
Proposed Use:	Commercial
Permit Number:	150461000001824
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OTIS ELEVATOR COMPANY

ADJOINING PROPERTY FINDINGS

Date: **8/22/2002**
Permit Type:
Description: **No Plan Check INSTALL 200 AMP. POWER PEDESTAL**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 020412000018560
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: THOMAS PERRY C CONSTRUCTION INC

Date: **6/20/2002**
Permit Type:
Description: **Plan Check Foundation for proposed 7'-6"x25'-6" underground utility vault (FOUNDATION ONLY).**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Misc. Bldg or Structure
Permit Number: 020162000004578
Status:
Valuation: $25,000.00
Contractor Company:
Contractor Name: THOMAS PERRY C CONSTRUCTION INC

Date: **5/31/2000**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT TO 99043-10000-02134, INSSTALLATION OF ONE PRESSURE REDUCING VALVE.**

Permit Description: **Fire Sprinkler**
Work Class:
Proposed Use: Commercial
Permit Number: 990431000102134
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: RETRO FIRE PROTECTION INCORPORATED

ADJOINING PROPERTY FINDINGS

Date: **5/4/2000**
Permit Type:
Description: **No Plan Check boilers**

Permit Description: **Pressure Vessel**
Work Class:
Proposed Use: Commercial
Permit Number: 000453000000253
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: SUNRISE PLUMBING & MECHANICAL

Date: **5/1/2000**
Permit Type:
Description: **Plan Check INSTALL ONE NEW 5' X 10' ILLUMINATED WALL SIGN AT THE NORTH FACING OF TOWER FRONTING THE FREEWAY. Sign to read " EXTENDED STAYAMERICA EFFICIENCY STUDIOS".**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 000482000000663
Status:
Valuation: $2,000.00
Contractor Company:
Contractor Name: SWAIN SIGN

Date: **3/23/2000**
Permit Type:
Description: **Plan Check UNDERGROUND FIREPROTECTION**

Permit Description: **Fire Sprinkler**
Work Class:
Proposed Use: Apartment
Permit Number: 000432000000797
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY PIPELINE

ADJOINING PROPERTY FINDINGS

Date: **2/8/2000**
Permit Type:
Description: **Plan Check PROPOSED MONUMENT SIGN H= 3.5' L = 4'.**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 000482000000232
Status:
Valuation: $3,000.00
Contractor Company:
Contractor Name: SWAIN SIGN

Date: **2/1/2000**
Permit Type:
Description: **Plan Check NEW FA SYSTEM FOR A HOTEL THIS SYTEM DOES NOT INCLUDE THE SMOKE DETECTORS INSIDE THE ROOMS.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Public Safety Only
Permit Number: 000411000001917
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: RHR SECURITY SYSTEMS

Date: **1/31/2000**
Permit Type:
Description: **Plan Check INSTALL NEW 3-ILLUMINATED WALL SIGNS @ 5'0" X 10' & 1-NON-ILLUMINATED WALL SIGN @ 10"X3'5".**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 990482000000996
Status:
Valuation: $9,842.00
Contractor Company:
Contractor Name: SWAIN SIGN

ADJOINING PROPERTY FINDINGS

Date:	**1/31/2000**
Permit Type:	
Description:	**Plan Check 2 signs: to read "EXTENDED STAYAMERICA -- " monument & "OFFICE >" info sign**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	990482000001168
Status:	
Valuation:	$30,000.00
Contractor Company:	
Contractor Name:	

Date:	**1/27/2000**
Permit Type:	
Description:	**No Plan Check 1. Permit for 154 window compressors for new hotel. 2. Permit for 2 smoke detectors and witness test for 99044-10000-01657**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000442000000803
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	1ST TEAM AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

Date:	**1/26/2000**
Permit Type:	
Description:	**Plan Check NEW HOTEL. (153-COMPRESSORS(WINDOW TYPEUNITS) UNDER SEPARATE PERMIT.)**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	990441000001657
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	1ST TEAM AIR CONDITIONING

Date:	**12/14/1999**
Permit Type:	
Description:	**No Plan Check INSTALL MANHOLE BUILDING PERMIT NUMBER 99010 30000 00680**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	990422000017389
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MAGNUM ENTERPRISES

ADJOINING PROPERTY FINDINGS

Date: **12/3/1999**
Permit Type:
Description: **No Plan Check CHANGE DISCRIPTION OF WORK FROM 166-UNIT CONDOMINIUM TO 146-UNIT HOTEL. DEPARTMENT ERROR - NO FEE- 99041-20000-03830**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 990412000023829
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ALLSPARK

Date: **11/12/1999**
Permit Type:
Description: **No Plan Check INSTALL 1 LAWN SPRINKLER VALVE & 1 BACKFLOW DEVICE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 990422000015706
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PROSCAPE LANDSCAPE

Date: **11/10/1999**
Permit Type:
Description: **Plan Check NEW 166 UNITS CONDO.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 990412000003830
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ALLSPARK

ADJOINING PROPERTY FINDINGS

Date: **11/9/1999**
Permit Type:
Description: **Plan Check NEW HOTEL-PLUMBING.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 990421000002816
Status:
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/4/1999**
Permit Type:
Description: **Plan Check New 3 story hotel (146 guest rooms)**

Permit Description: **Bldg-New**
Work Class:
Proposed Use: Commercial Hotel
Permit Number: 990103000000680
Status:
Valuation: $4,660,000.00
Contractor Company:
Contractor Name: MAGNUM ENTERPRISES

Date: **11/4/1999**
Permit Type:
Description: **Plan Check TRASH ENCLOSURE**

Permit Description: **Nonbldg-New**
Work Class:
Proposed Use: Commercial Misc. Bldg or Structure
Permit Number: 990202000000859
Status:
Valuation: $1,000.00
Contractor Company:
Contractor Name: MAGNUM ENTERPRISES

ADJOINING PROPERTY FINDINGS

Date: **10/20/1999**
Permit Type:
Description: **Plan Check REVISE GRADING PLAN, LOCATION OF WALLS, EARTHWORK QUANTITY AND TO PAY FOR EXPEDITE PLAN RECHECK. SEE COMMENTS. MODIFICATION FOR PROPOSED SUMP PUMP SHALL BE APPROVED PRIOR TO GRADING WORK OR INSTALLATION OF PUMP AT THIS AREA.**

Permit Description: **Grading**
Work Class:
Proposed Use: Commercial Grading/Hillside
Permit Number: 990302000200385
Status:
Valuation: $301.00
Contractor Company:
Contractor Name: MAGNUM ENTERPRISES

Date: **9/17/1999**
Permit Type:
Description: **Plan Check INSTALL ONE HYDRAO-ELECTRIC ELEVATOR.**

Permit Description: **Elevator**
Work Class:
Proposed Use: Commercial
Permit Number: 990461000000718
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: SCHINDLER ELEVATOR CORPORATION

ADJOINING PROPERTY FINDINGS

Date: **8/20/1999**
Permit Type:
Description: **Plan Check INSTALL NEW FIRE SPRINKLER SYSTEM.**

Permit Description: **Fire Sprinkler**
Work Class:
Proposed Use: Commercial
Permit Number: 990431000002134
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: RETRO FIRE PROTECTION INCORPORATED

Date: **6/8/1999**
Permit Type:
Description: **No Plan Check CTS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 990412000010914
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: A - CO TEMPORARY POWER

Date: **5/24/1999**
Permit Type:
Description: **Plan Check PROPOSED RETAINING WALLS FOR SITE PREP (99030-20000-00385).**

Permit Description: **Nonbldg-New**
Work Class:
Proposed Use: Commercial Misc. Bldg or Structure
Permit Number: 990202000000858
Status:
Valuation: $43,000.00
Contractor Company:
Contractor Name: MAGNUM ENTERPRISES

ADJOINING PROPERTY FINDINGS

Date:	**5/24/1999**
Permit Type:	
Description:	**Plan Check SITE PREP FOR PROPOSED HOTEL. REQUIRED RETAINING WALL PERMIT PER 99020-20000-00858. IMP/EXP. HEARING APPROVED. TO BE COMPLETED IN 12 DAYS AND BETWEEN 9AM - 3:30PM M-F. BF#990073.**
Permit Description:	**Grading**
Work Class:	
Proposed Use:	Commercial Grading/Hillside
Permit Number:	990302000000385
Status:	
Valuation:	$17,000.00
Contractor Company:	
Contractor Name:	MAGNUM ENTERPRISES

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

Appendix E. City Directory Search

Taft High School
5461 Winnetka Ave
Woodland Hills, CA 91364

Inquiry Number: 5037330.5
August 30, 2017

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2010	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2006	Haines Company	-	-	-	-
2004	Haines Company	X	X	X	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	X	X	X	-
1990	Pacific Bell	-	X	X	-
1986	Pacific Bell	-	X	X	-
1985	Pacific Bell	X	X	X	-
1981	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	X	X	X	-
1976	Pacific Telephone	-	X	X	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	-	-	-
1965	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1950	Pacific Telephone	-	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

5461 Winnetka Ave
Woodland Hills, CA 91364

FINDINGS DETAIL

Target Property research detail.

WINNETIKA AVE

5461 WINNETIKA AVE

Year	Uses	Source
1965	TAFT WILLIAN HOWA RD HIGH	Pacific Telephone

Winnetka Ave

5461 Winnetka Ave

Year	Uses	Source
2014	LOS ANGELES UNIFIED SCHOOL DST	EDR Digital Archive
2010	LOS ANGELES UNIFIED SCHL DIST	EDR Digital Archive

WINNETKA AVE

5461 WINNETKA AVE

Year	Uses	Source
2004	TAFT HIGH SCHOOL	Haines Company
1995	Taft High School	Pacific Bell
1991	Taft High School	Pacific Bell
	Taft High School Hot Line	Pacific Bell
1985	Taft High School	Pacific Bell
	Taft High School Student Body	Pacific Bell
1980	TAFT HIGH SCHOOL	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

QUAKERTOWN AVE

5400 QUAKERTOWN AVE

Year	Uses	Source
1965	SUTTON N V	Pacific Telephone
	SCHULTZ W H	Pacific Telephone
	FELLOWS B F IV	Pacific Telephone
	LEWIS LEROY MRS	Pacific Telephone

Quakertown Ave

5404 Quakertown Ave

Year	Uses	Source
2010	ONLY BEST PIZZA	EDR Digital Archive

QUAKERTOWN AVE

5404 QUAKERTOWN AVE

Year	Uses	Source
2004	AHANKOOBH	Haines Company
	OBARAZANI Frederic	Haines Company
	SBOLONSKI Max	Haines Company
	GORDON Anita	Haines Company
	GORDON Kenneth	Haines Company
	SLAVI Abdolah	Haines Company
	SLESSARD Arthur	Haines Company
	SROSENBERG Betty	Haines Company
	SAH Anil	Haines Company
1995	Lavi Abdolah	Pacific Bell
	Rosenberg Murray D	Pacific Bell
	Gordon Kenneth & Anita	Pacific Bell
1991	Gordon Kenneth & Anita	Pacific Bell
	Lavi Abdolah	Pacific Bell
	Rosenberg Murray D	Pacific Bell
	Rosenberg N	Pacific Bell
1985	Khammar Gary J	Pacific Bell

FINDINGS

5408 QUAKERTOWN AVE

Year	Uses	Source
1975	Schram Susan Lynn	Pacific Telephone

Quakertown Ave

5410 Quakertown Ave

Year	Uses	Source
2014	WOODLAND HILLS APARTMENTS	EDR Digital Archive
2010	RITCHIE SECRETARIAL SVCS	EDR Digital Archive
	KRN TRANSPORTATION INC	EDR Digital Archive

QUAKERTOWN AVE

5410 QUAKERTOWN AVE

Year	Uses	Source
2004	APARTMENTS	Haines Company
	FAKOORAkbar	Haines Company
	JAQUELINEClemente	Haines Company
	JOHNSONCralg W	Haines Company
	LETrung	Haines Company
	MANNE Harvey F	Haines Company
	MICHAELS N	Haines Company
	MIKEMonroe	Haines Company
	MILANO Patricia S	Haines Company
	PARSEGHIAN Rita	Haines Company
	SILERRoss	Haines Company
1995	Fagel David	Pacific Bell
	Kershaw Rick & Pam	Pacific Bell
	I Kershuk IS	Pacific Bell
	Milano Patricia Sprong	Pacific Bell
1991	Aleksandrovlch Gennady	Pacific Bell
	Ginsburg Martin	Pacific Bell
	Jones Kelly Todd	Pacific Bell
	Jones Kelvin	Pacific Bell
	Leake Carlos W	Pacific Bell
	Miles Brett	Pacific Bell
	Miles Brian	Pacific Bell
	Petroski J	Pacific Bell
	Petroski Patti GHis	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Petrosky Jos & Doris	Pacific Bell
	Petrosky Michael	Pacific Bell
	Wechsler Gene	Pacific Bell
	Wechsler I	Pacific Bell
	Wechsler Ira	Pacific Bell
1985	Milani Abdolreza S	Pacific Bell
	Milano Patricia Sprong	Pacific Bell
	Miller Edw	Pacific Bell
	Rothstein Seymour H	Pacific Bell
	Rothstein Bane Marlene Dr	Pacific Bell
	Arita Karen	Pacific Bell
	Coleman Paul S	Pacific Bell
	Coleman Pauline	Pacific Bell
	Farhat Mahnaz	Pacific Bell
	Ginsburg Martin	Pacific Bell
	Grant D	Pacific Bell
	Haas Margie	Pacific Bell
	Haas Marie	Pacific Bell
	Haas Michael	Pacific Bell
	Meeks Richard K	Pacific Bell
	Myong S O	Pacific Bell
	Sterin Maurice	Pacific Bell
	Sterk JL	Pacific Bell
	Wong Rholan C	Pacific Bell
	Wright Michael Bl	Pacific Bell
	Wright Michael M	Pacific Bell
1975	Gilmore S C	Pacific Telephone
	Gould Steven	Pacific Telephone
	Tietz Chris	Pacific Telephone

5419 QUAKERTOWN AVE

Year	Uses	Source
2004	no info	Haines Company

5422 QUAKERTOWN AVE

Year	Uses	Source
2004	BAJAJ Parminder	Haines Company
	BARTLETT Joseph H	Haines Company
	CANDLISH Daniel	Haines Company

FINDINGS

Year	Uses	Source
2004	CANDLISH Katheryne	Haines Company
	WATERS Chrstopher A	Haines Company
1995	Hallman Sylvia	Pacific Bell
	Kemme Peter	Pacific Bell
	Khankhsnlan Behrooz	Pacific Bell
	Landinln MWard	Pacific Bell
	Lasco John A	Pacific Bell
	Somerville V	Pacific Bell
	Voss Carol Jane	Pacific Bell
1991	Bartow Mary & Jim	Pacific Bell
	Bartow N	Pacific Bell
	Gimore B	Pacific Bell
	Niebauer Danl A	Pacific Bell
1985	Lasco John A	Pacific Bell
	Coppola Andy & Jenie	Pacific Bell
	Gilmore Bl	Pacific Bell
	Goldthorpe P	Pacific Bell
	Hallman Sytvia	Pacific Bell
	Hamilton A H	Pacific Bell
	Hamilton Kenneth	Pacific Bell
	Hekkert T	Pacific Bell
	Hekking J	Pacific Bell
	Krasner Jo	Pacific Bell
	Mandell Tracy	Pacific Bell
	Mandella Gracie	Pacific Bell
	Mason Melissa	Pacific Bell
	Niebauer Dani A	Pacific Bell
	Somerville V	Pacific Bell
	Voss Carol Jane	Pacific Bell
	Willis G	Pacific Bell
1975	Bennett Gary A	Pacific Telephone
	Cutler Mark	Pacific Telephone
	Myers R H	Pacific Telephone
	Olner Jay C	Pacific Telephone
	Proctor Sam	Pacific Telephone
	Spira Christine	Pacific Telephone
	Spira Jerome	Pacific Telephone
	Stewart John P	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Swanson C H	Pacific Telephone
	Tatman M	Pacific Telephone
1965	POWELL M L	Pacific Telephone
	LEVINE R	Pacific Telephone
	QUAKERTOWN TERRACE	Pacific Telephone
	BOYCF JOIHN	Pacific Telephone

Quakertown Ave

5429 Quakertown Ave

Year	Uses	Source
2014	LOS ANGELES UNIFIED SCHOOL DST	EDR Digital Archive
2010	LOS ANGELES UNIFIED SCHL DIST	EDR Digital Archive

QUAKERTOWN AVE

5429 QUAKERTOWN AVE

Year	Uses	Source
2004	SCHOOL	Haines Company
	THOREAU HIGH	Haines Company
1995	Thoreau High School	Pacific Bell
1991	Thorel Marcel	Pacific Bell
	Thoreau High School	Pacific Bell
1985	Thoreau High School	Pacific Bell

Quakertown Ave

5440 Quakertown Ave

Year	Uses	Source
2014	AUTISM MEDIA	EDR Digital Archive
	SABA CONSTRUCTION CO	EDR Digital Archive
	FARAN CONSTRUCTION	EDR Digital Archive
	CME VI VI LXX	EDR Digital Archive
2010	DOMDESEJ FINANCIAL	EDR Digital Archive
	CUSTOM WALLS	EDR Digital Archive
	ARTISTIC TOUCH	EDR Digital Archive
	ARTISTIC TOUCH	EDR Digital Archive
	SABA CONSTRUCTION CO	EDR Digital Archive
	KORAI MEDICAL RESOURCES	EDR Digital Archive
	SCRAPBOOK PARADISE	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	AZCAR ENTERPRISES INC	EDR Digital Archive

QUAKERTOWN AVE

5440 QUAKERTOWN AVE

Year	Uses	Source
2004	CHIRUMBOLO Raquel	Haines Company
	DABBOUSSI Azoam	Haines Company
	DABBOUSSI Carol	Haines Company
	DUFFY L	Haines Company
	FOGELSON Michael	Haines Company
	KHANAsad A	Haines Company
	MARCIANO Matthew	Haines Company
	PEISNER L	Haines Company
	PETERKINTanya	Haines Company
	TESSELP	Haines Company
	THORNBURGGina	Haines Company
	ZEMLIAKOVAAnna	Haines Company
	WOODLAND TWRS APTS	Haines Company
1995	Khoshabeh Ninos	Pacific Bell
	Sagranichne A	Pacific Bell
	Sailer Emanuel	Pacific Bell
1991	Berman Alvin	Pacific Bell
	Berman Andrew R	Pacific Bell
	Renner Harold J	Pacific Bell
	Walco R	Pacific Bell
	Waick Anna	Pacific Bell
	Emami Mohamad	Pacific Bell
	Guillot Eric	Pacific Bell
	Gullotte Choppy	Pacific Bell
	Guillow Ralph J 1200 N Jackson Gin	Pacific Bell
	Lee Dong Keon	Pacific Bell
	Lodge Robt J	Pacific Bell
	Lodge T	Pacific Bell
	Sailer Emanuel	Pacific Bell
	Tymlnski Mariusz & M Anna	Pacific Bell
1985	Peck Albert W	Pacific Bell
	Van Geelkerken Jan C	Pacific Bell
	Berman Alvin	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Brumbaugh C L	Pacific Bell
	Campbell Jos R Mrs	Pacific Bell
	Campbell K	Pacific Bell
	Campbell K	Pacific Bell
	Carson Lowell A	Pacific Bell
	Daquino Jamie	Pacific Bell
	Durham Albus Mrs	Pacific Bell
	Ginsberg Sanl	Pacific Bell
	Ginsberg Sidney & Ruth POy C	Pacific Bell
	Ginsberg Tracey	Pacific Bell
	Haverick Richard C	Pacific Bell
	Iversen Pearl	Pacific Bell
	Kittel H	Pacific Bell
	Lipton Chas	Pacific Bell
	Lipton DR	Pacific Bell
	Lipton David A	Pacific Bell
	Lodge Robt J	Pacific Bell
	Lodge S	Pacific Bell
	Lodge S	Pacific Bell
	Mc Karney M V	Pacific Bell
	Murata Tsunetake	Pacific Bell
	Sailer Emanuel	Pacific Bell
	Tawil Barbara	Pacific Bell
	Yeh Sutge	Pacific Bell
1975	Geller Marshall S	Pacific Telephone
	Micale Danilo	Pacific Telephone

Quakertown Ave

5480 Quakertown Ave

Year	Uses	Source
2014	ZEN CRYSTALS	EDR Digital Archive
2010	PEDRO ARTEAGA	EDR Digital Archive
	E PARTS110 INC	EDR Digital Archive
	EQUELECUA PRODUCTIONS LLC	EDR Digital Archive
	HYSSOP INC	EDR Digital Archive
	1ST AND 10 SPORTS CARDS	EDR Digital Archive

FINDINGS

QUAKERTOWN AVE

5480 QUAKERTOWN AVE

Year	Uses	Source
2004	VALLEPUEBLOAPTS	Haines Company
	ARTEAGAP	Haines Company
	ASHTR	Haines Company
	AYRISSS	Haines Company
	BADALUTSJohn	Haines Company
	FERRARO Anloinette	Haines Company
	FRANKLYN Dina	Haines Company
	HANSookwon	Haines Company
	KIMANI Simon N	Haines Company
	MALEKAkhlagh	Haines Company
	Mohamad All	Haines Company
	MANDELAndrea	Haines Company
	MUI Slanley K	Haines Company
	NARDINI Carol	Haines Company
	Brien S	Haines Company
	PERICO Natalie	Haines Company
	PHILLIPSS	Haines Company
	RABIZADEH Hamdam	Haines Company
	RAFTREE William	Haines Company
	ROSSITTO Scot C	Haines Company
	SANCHEZM	Haines Company
	SCHWARTZ Evelyn	Haines Company
	SEN 9 ERL	Haines Company
	YELISEYEVA Suzanna	Haines Company
	ZUNKER Dorolhy	Haines Company
1995	Afshar Margaret	Pacific Bell
	Arunees House	Pacific Bell
	B Arusy Shlomi	Pacific Bell
	Eliaslrving	Pacific Bell
	Nelson James B	Pacific Bell
	Fike Stanley R	Pacific Bell
	Yehoshua Iris	Pacific Bell
1991	Armstrong Phil C	Pacific Bell
	Gilmore Matt	Pacific Bell
	Gilmore Maureen	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Nelson James Bl	Pacific Bell
	Rogan Timothy	Pacific Bell
	Roganson L	Pacific Bell
	Taylor Robert Jr	Pacific Bell
	Barker Brent	Pacific Bell
	Boruski Steve	Pacific Bell
	Brown Julius & Anne	Pacific Bell
	Brown June Towill Interiors	Pacific Bell
	Engstrom Jeff	Pacific Bell
	Livingston Brett T	Pacific Bell
	Naehu Kenneth	Pacific Bell
	Peykar Neil	Pacific Bell
	Peykar Nina	Pacific Bell
	Roberts Eric	Pacific Bell
	Roberts Eric S	Pacific Bell
	Roberts Ernie & Veronica	Pacific Bell
1985	Brown Julius & Anne	Pacific Bell
	Brown June Asid Interiors	Pacific Bell
	Crookshanks Merridy	Pacific Bell
	Baca E M	Pacific Bell
	Belio A F	Pacific Bell
	Blanchard I M	Pacific Bell
	De Costa Robt J	Pacific Bell
	De Coste Jeffery P	Pacific Bell
	Derrick Willard	Pacific Bell
	Ebert Cheryl	Pacific Bell
	Edwards M J	Pacific Bell
	Edwards Mandy	Pacific Bell
	Kornbluth Alma	Pacific Bell
	Masters E E	Pacific Bell
	Miller John A Jr	Pacific Bell
	Roth R Bl	Pacific Bell
	Roth R & H	Pacific Bell
	Scarantino Gene	Pacific Bell
	Wagg Kevin R	Pacific Bell
	Waggaman Doug & Lorene	Pacific Bell
	Weiss Dietmar R	Pacific Bell
1975	Anderson C David	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Barnewolt C R Sr	Pacific Telephone
	Dow V	Pacific Telephone
	Fenwick Jim L	Pacific Telephone
	Grollnek S	Pacific Telephone
	Olson Alyse	Pacific Telephone
	Pineau Jos H Rev	Pacific Telephone
	Schram Bruce G	Pacific Telephone

5504 QUAKERTOWN AVE

Year	Uses	Source
2004	URRUTIA Gonzates Alicia	Haines Company
	SERRANO Roque R	Haines Company
	PRADOJuan	Haines Company
	PEREZ Carlos E	Haines Company
	PADRONJuan	Haines Company
	APARTMENTS	Haines Company
	A ARREOLA Anna	Haines Company
	BAUDIN Richard	Haines Company
	CALZADA Jesus Trinidad	Haines Company
	CALZADAT Jesus	Haines Company
	JACOBO Simon	Haines Company
	JACOBO Soldedad	Haines Company
	MEJIAGuillermo	Haines Company
1995	Navarro Hildelisa	Pacific Bell
	Santos G	Pacific Bell
1991	Acosta Francisco	Pacific Bell
	Camacho Piedad	Pacific Bell
	Camacho R	Pacific Bell
	Cardona Antonio	Pacific Bell
	Cardona C	Pacific Bell
	Cardona CM	Pacific Bell
	Medina Rocky	Pacific Bell
	Perez Jose Manuel	Pacific Bell
	Tories M	Pacific Bell
	Venegas Francisco Javier	Pacific Bell

FINDINGS

Santa Rita St

20120 Santa Rita St

Year	Uses	Source
2014	SILHOUETTE II FMLY LTD PARTNR	EDR Digital Archive
2010	DRAGONESQUE	EDR Digital Archive
	R&J FAMILY LTD PARTNERSHIP	EDR Digital Archive
	SILHOUETTE II FMLY LTD PARTNR	EDR Digital Archive

SANTA RITA ST

20120 SANTA RITA ST

Year	Uses	Source
2004	SAMPSON Ralph L	Haines Company
1991	Sampson Raymond	Pacific Bell
	Sampson Ralph L	Pacific Bell
1985	Sampson Ralph L	Pacific Bell
1965	6WIRN DOLLY	Pacific Telephone
	UEILLY	Pacific Telephone

20132 SANTA RITA ST

Year	Uses	Source
2004	HAWKINS Christopher	Haines Company
	DISC PCKGNG SYS	Haines Company
1965	IHANNIS C JR	Pacific Telephone

Santa Rita St

20138 Santa Rita St

Year	Uses	Source
2014	CA PARTNERS	EDR Digital Archive
2010	CA PARTNERS	EDR Digital Archive

SANTA RITA ST

20138 SANTA RITA ST

Year	Uses	Source
2004	SMALERNeal	Haines Company
1991	Tripi C.7037465	Pacific Bell
	Triphon John G G	Pacific Bell
	Tniphon Dmitri	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Triphon Omitri	Pacific Bell

VENTURA BLVD

20098 VENTURA BLVD

Year	Uses	Source
2004	COYOTE ONE HOUR	Haines Company
	PHOTO	Haines Company

20100 VENTURA BLVD

Year	Uses	Source
1950	ST ANDREWS GOLF FAIRWAYS	Pacific Telephone
	HORNE SID ST ANDREWS GOLF FAIRWAYS	Pacific Telephone
	ST ANDREWS GOLF FAIRWAYS	Pacific Telephone
	HORNE SID ST ANDREWS GOLF FAIRWAYS	Pacific Telephone

20101 VENTURA BLVD

Year	Uses	Source
2004	no info	Haines Company
1985	Mobil Oil Corporation	Pacific Bell
1981	MOBILE OIL CORPRATION	Pacific Telephone
1980	MOBIL OIL CORPORATION	Pacific Telephone
	MOBIL SERVICE STATION DEALERS VAN NUYS	Pacific Telephone
1976	Mobil Oil Corporation Retail Development Centers	Pacific Telephone
1975	Retail Development Center	Pacific Telephone
1965	SJAY RAYS SERVICE GARAGE	Pacific Telephone

20120 VENTURA BLVD

Year	Uses	Source
2004	no info	Haines Company

20121 VENTURA BLVD

Year	Uses	Source
2004	LUCAS BRUCEJDR	Haines Company
	PROMAXPROPERTIES	Haines Company
	RAPID FUNDING	Haines Company
	MORTGAGECORP	Haines Company
	SOUND MARKETING	Haines Company

FINDINGS

Year	Uses	Source
2004	TONER MALL	Haines Company
	TOTALMERCHANT	Haines Company
	SERVICES	Haines Company
	TRADEMARK CENTER	Haines Company
	WESTCOAST FAMILY	Haines Company
	SERVICES	Haines Company
	WESTRN	Haines Company
	CHIROPRACTIC	Haines Company
	BUILDING	Haines Company
	ACCESSMERCHANT	Haines Company
	SERVICES	Haines Company
	AMER ACUPUNCTURE	Haines Company
	ACADEMY	Haines Company
	AMERICAN MULTI	Haines Company
	APPLEONE	Haines Company
	TEMP&FULLTIMEEMP	Haines Company
	BUILD 4 LESS	Haines Company
	COHEN & ASSOCLAW	Haines Company
	OFFICES OF	Haines Company
	EXPRESSTONERSINC	Haines Company
	FAMILY FIRST	Haines Company
	GHAZARIANANITA DR	Haines Company
	GUHUAPHDLAC	Haines Company
	INTELLECTUAL	Haines Company
	PROPERTY MANGMNT	Haines Company
1995	Carnahan & Lord Insurance Services	Pacific Bell
	National Pacific Mortgage Corp	Pacific Bell
	Property Management	Pacific Bell
	CARN AHAN & AS S OCIATE S	Pacific Bell
	Residential Commercial	Pacific Bell
	CARN AHAN & AS S OCIATE S	Pacific Bell
	Corporate Real Estate Services	Pacific Bell
1991	National Pacific Mortgage Corp	Pacific Bell
	National Park Service Santa Monica Mountains National Recreation Area	Pacific Bell
	Woodland Hills Offices	Pacific Bell
	Fishman Chandler And Associates	Pacific Bell
	Fishman Martin Ph D	Pacific Bell
	Kuskulis Ted ins	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Kuslansky E A	Pacific Bell
	Landau Harold CPA	Pacific Bell
	Landau Instrument Co	Pacific Bell
	From Beverly Hills Telephones Call	Pacific Bell
	National Painting & Maintenance Co	Pacific Bell
	Reiner Bob ins	Pacific Bell
	From Van Nuys Telephones Call	Pacific Bell
	TritekIntemat ICo	Pacific Bell
	Vencill David ins	Pacific Bell
	NATIONAL PACIFIC MORTGAGE CORP	Pacific Bell
	Amerkor Inc	Pacific Bell
	Ampak Group	Pacific Bell
	Bacca Jim ins	Pacific Bell
	Branson Russell ins	Pacific Bell
	Capobianco Herman ins	Pacific Bell
	Property Management	Pacific Bell
	Residential Commercial	Pacific Bell
	Chandler Bonnie MA MFCC	Pacific Bell
	Chodorow Dennis CPA	Pacific Bell
	Chodorow Done 8	Pacific Bell
	Chodorow Jeff	Pacific Bell
	Chodorow Julie	Pacific Bell
	Chodorow Ronald M & Associates	Pacific Bell
	Chodos David Ethan	Pacific Bell
	Choe Augustin Nor	Pacific Bell
	Design Automation Consultants	Pacific Bell
	Electrology Technology	Pacific Bell
	Farmers Insurance	Pacific Bell
	From Van Nuys Telephones Call	Pacific Bell
1990	CERTIFIED CONTRACTORS SCHOOL WOODLAND HILLS	Pacific Bell
1986	CERTIFIED CONTRACTORIS SCHOOL WOODLAND HILLS	Pacific Bell
	MOORE RICHARD J WOODLAND HILLS	Pacific Bell
1985	Barzman Larry R CPA	Pacific Bell
	Berliner Edw J Berliner & Sisilli Av Accountancy Corp CPAs	Pacific Bell
	Berliner Harry	Pacific Bell
	Berliner J	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Berliner J	Pacific Bell
	Berliner Norman Sylm	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell
	Or	Pacific Bell
	Certified Contractors School	Pacific Bell
	Cleaver Phil ins	Pacific Bell
	Cleaver S	Pacific Bell
	Karl Robert ins	Pacific Bell
	Kari Ronald	Pacific Bell
	Mihahn Inc	Pacific Bell
	Moore Richard J	Pacific Bell
	Moore Richard J CPA	Pacific Bell
	Moss & Co	Pacific Bell
	National Diagnostic Services	Pacific Bell
	N ATION AL DIAMON D LABORATORY	Pacific Bell
	Pulver Morse & Associates	Pacific Bell
	Rehab Software	Pacific Bell
	Rogers Development Co	Pacific Bell
	ROTMAN ARN OLD J atty	Pacific Bell
	Shenson Howard L Inc	Pacific Bell
	Steiger Charlene ins	Pacific Bell
	AA & J Stabile Realtor	Pacific Bell
	Campana Frank Personal Management	Pacific Bell
	Contractors Registry Referral Service	Pacific Bell
	Contractors Truck & Equipment Rental	Pacific Bell
	Contractors & Underwriters Emergency Services	Pacific Bell
	Contractors Wardrobe	Pacific Bell
	Keehn Jacqueline M CPA	Pacific Bell
1981	ABBOTT EDMUND P CPA WOODLAND HILLS	Pacific Telephone
	BECK MICHAEL A MS CLEAVER BECK & CO CPAS WOODLAND HILLS	Pacific Telephone
	CERTIFIED CONTRACTORS SCHOOL WOODLAND HILLS	Pacific Telephone
	CHARLENE STEIGER INS & BOB SPLANN INS AGENCY WOODLAND HILLS	Pacific Telephone
	CLEAVER BECK & CO CPAS WOODLAND HILLS	Pacific Telephone

FINDINGS

Year	Uses	Source
1981	CLEAVER BRETT O CLEAVER BECK & CO CPAS WOODLAND HILLS	Pacific Telephone
	ALLEN K ARCHITECT AIA WOODLAND HILLS	Pacific Telephone
	KUH JAS R INS WOODLAND HILLS	Pacific Telephone
	LAYBHEN FRED CLU WOODLAND HILLS	Pacific Telephone
	MCKINLEY SCOTT CPA WOODLAND HILL	Pacific Telephone
	MOORE RICHARD J WOODLAND HILLS	Pacific Telephone
	NOWLIN MARGARET CPA WOODLAND HILLS	Pacific Telephone
1980	ABBOTT EDMUND P CPA	Pacific Telephone
	ALPERT MORRIS & ASSOCIATES	Pacific Telephone
	AMERKOR INC	Pacific Telephone
	BECK MICHAEL A CLEANER BECK & CO CPAS	Pacific Telephone
	BERLINER EDW J BERLINER & SISILLL AN ACCOUNTANCY CORP CPA S	Pacific Telephone
	BERLINER & SISILLI ARN ACCOUNTANCY CORP CPA S	Pacific Telephone
	BREWER CHARLENE INS	Pacific Telephone
	BREWER STEIGER CHARLENE INS	Pacific Telephone
	CAMPANA FRANK PERSONAL MANAGEMENT	Pacific Telephone
	CENTURY 21	Pacific Telephone
	CENTURY 21 A & J STABILE REALTORS	Pacific Telephone
	CENTURY 21 A & J STABILE REALTORS	Pacific Telephone
	CERTIFIED CONTRACTORS SCHOOL	Pacific Telephone
	CHARLENE STEIGER INS & BOB SPLANN INS AGENCY	Pacific Telephone
	CHODOROW DENNIS CPA	Pacific Telephone
	CHODOROW RONALD N & ASSOCIATES	Pacific Telephone
	CLEAVER BECK & CO CPAS	Pacific Telephone
	CLEAVER BRETT O CLEAVER BECK & CO CPAS	Pacific Telephone
	COMMERCIAL INVESTIGATION	Pacific Telephone
	DAVIS JOS R INS AGCY	Pacific Telephone
	ELECTRONIC FRONTIERS INC	Pacific Telephone
	FEYLINE PRESENTS INC	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	FINE DENNIS B CPA	Pacific Telephone
	GASSMAN ALLAN K ARCHITECT AIA	Pacific Telephone
	GREAT WEST MARKETING	Pacific Telephone
	GREGG INSURANCE MARKETING	Pacific Telephone
	HAGGERTY & ASSOCIATES INC	Pacific Telephone
	HALAN COMPUTER SERVICES	Pacific Telephone
	INNOVATIVE SOFTWARE	Pacific Telephone
	INSTITUTIONAL FUND-RAISING CORP	Pacific Telephone
	IONIQUE INC	Pacific Telephone
	JAG BMX	Pacific Telephone
	MAC-I INC	Pacific Telephone
	MELARD WEST MFG	Pacific Telephone
	MILLS CO THE	Pacific Telephone
	MOORE RICHARD J	Pacific Telephone
	NOWLIN MARGARET CPA	Pacific Telephone
	OPTIMATICS INC	Pacific Telephone
	PULVER MORSE & ASSOCIATES	Pacific Telephone
	REHABILITATLON INSTITUTE OF SO CALIF	Pacific Telephone
	RELIANCE STANDARD LIFE INSURANCE COMPANY	Pacific Telephone
	ROTMAN ARNOLD J ATTY	Pacific Telephone
	SHOP MANAGEMENT INC	Pacific Telephone
	SISITTI C VINCENT BERLINER S SISILLI AN ACCOUNTANCY CORP CPAS	Pacific Telephone
	SPLAWN BOB INS	Pacific Telephone
	STABILE JENNIE REALTOR	Pacific Telephone
	STABILE JENNIE REALTOR	Pacific Telephone
	STEIGER CHARLENE INS	Pacific Telephone
	STEVEN THOMAS FINANCIAL	Pacific Telephone
	SURPLUS BROKERAGE	Pacific Telephone
	TAYLOR MICHAEL & ASSOCIATES	Pacific Telephone
	BLEECK ROBERT M CPA WOODLAND HILLS	Pacific Telephone
	ECONOMIC SYSTEMS LAUNDRY EQUIPMENT WOODALND HILLS	Pacific Telephone
	ECONOMICS LABORATORY INC WOODLAND HILLS	Pacific Telephone
	INLAND FINANCIAL CORP WOODLAND HILLS	Pacific Telephone

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Year	Uses	Source
1980	R & B PRODUCTIONS WOODLAND HILLS	Pacific Telephone
	SHENSON HOWARD L INC WOODLAND HILLS	Pacific Telephone
	SOURCE ONE INC WOODLAND HILLS	Pacific Telephone
	TORHAN EUGENE CPA	Pacific Telephone
	UNITED GENERAL INDUSTRIES INC	Pacific Telephone
1976	K West Engineering & Grading	Pacific Telephone
	Schindler Norman S & Associates Inc	Pacific Telephone
1975	Woodland Hills	Pacific Telephone
	Stabile Realty	Pacific Telephone

20123 VENTURA BLVD

Year	Uses	Source
1980	FARMERS INSURANCE GROUP AGENT WOODLAND HILLS OFFICE-	Pacific Telephone

20137 VENTURA BLVD

Year	Uses	Source
2004	DENNY S RESTAURANT	Haines Company
1991	Dennys Restaurant	Pacific Bell
1980	HOBO JOE S	Pacific Telephone

20157 VENTURA BLVD

Year	Uses	Source
2004	REDROOFINN	Haines Company
	COMFORTINN	Haines Company
1991	Woodland Hills	Pacific Bell
	Crites L D	Pacific Bell
1985	Woodland Hills	Pacific Bell
1980	CRITES L D	Pacific Telephone
	VAGABOND MOTOR HOTEL LOCAL LOCATIONS	Pacific Telephone
1975	Woodland Hills	Pacific Telephone

20205 VENTURA BLVD

Year	Uses	Source
2004	STAYAMERICA	Haines Company
	EXTENDED	Haines Company
	STAYAMERICA	Haines Company

FINDINGS

WINNETIKA AVE

5460 WINNETIKA AVE

Year	Uses	Source
1965	COLFAX CLEANERS / DYERS	Pacific Telephone

5464 WINNETIKA AVE

Year	Uses	Source
1965	LADDS COIN-OP CLEANERS	Pacific Telephone

5472 WINNETIKA AVE

Year	Uses	Source
1965	GPAY-N-S AVE DRUGS	Pacific Telephone

Winnetka Ave

5336 Winnetka Ave

Year	Uses	Source
2014	MASSACHI ISAAC	EDR Digital Archive
2010	MASSACHI ISAAC	EDR Digital Archive
	SHERWOOD CNDMNUMS HMWNERS ASSN	EDR Digital Archive

5346 Winnetka Ave

Year	Uses	Source
2014	LOMA VISTA INVESTMENT LLC	EDR Digital Archive
2010	BELL GARDEN	EDR Digital Archive

WINNETKA AVE

5366 WINNETKA AVE

Year	Uses	Source
2004	XXOXX	Haines Company
1991	Loris Critter Sitters	Pacific Bell
1985	King Lance	Pacific Bell
1980	COATES K	Pacific Telephone

Winnetka Ave

5367 Winnetka Ave

Year	Uses	Source
2014	MEL EAMON HERBERT MD	EDR Digital Archive

FINDINGS

WINNETKA AVE

5367 WINNETKA AVE

Year	Uses	Source
2004	HERBERTMary	Haines Company
	HERBERTMary	Haines Company
	HERBERT Mel	Haines Company
	HERBERT Mel	Haines Company
1995	Duffy Chas M	Pacific Bell
1991	Duffy D Sun	Pacific Bell
	Duffy Christopher	Pacific Bell
	Duffy Chas M	Pacific Bell
	Duffy D	Pacific Bell
1985	Duffy D	Pacific Bell
	Duffy Chas M	Pacific Bell
1980	DUFFY CHAS M	Pacific Telephone

5460 WINNETKA AVE

Year	Uses	Source
2004	no info	Haines Company
1991	Bell Boy Cleaners	Pacific Bell
1985	Bell Boy Cleaners	Pacific Bell
1980	BELL BOY CLEANERS	Pacific Telephone

5464 WINNETKA AVE

Year	Uses	Source
2004	no info	Haines Company
1980	CASA DE LAUNDRY WOODLAND HILLS	Pacific Telephone

5468 WINNETKA AVE

Year	Uses	Source
2004	no info	Haines Company

5472 WINNETKA AVE

Year	Uses	Source
1995	Taft Pharmacy	Pacific Bell
	Taft Pharmacy	Pacific Bell
	Corbln Village Pharmacy	Pacific Bell
1985	Taft Pharmacy	Pacific Bell
1980	TAFT PHARMACY	Pacific Telephone

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5550 WINNETKA AVE

Year	***Uses***	***Source***
1985	C Js Pizza	Pacific Bell
	Chevron Service Center	Pacific Bell
1980	HEDRICK CHEVRON	Pacific Telephone
	CHEVRON U S A INC	Pacific Telephone
	CHEVRON SERVICE CENTER	Pacific Telephone
1975	Winnetka & Ventura	Pacific Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
5461 Winnetka Ave	2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
20098 VENTURA BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20100 VENTURA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20101 VENTURA BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20120 SANTA RITA ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20120 Santa Rita St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20120 VENTURA BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20121 VENTURA BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
20123 VENTURA BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20132 SANTA RITA ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20137 VENTURA BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20138 SANTA RITA ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20138 Santa Rita St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20157 VENTURA BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
20205 VENTURA BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5336 Winnetka Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5346 Winnetka Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5366 WINNETKA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5367 WINNETKA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5367 Winnetka Ave	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5400 QUAKERTOWN AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5404 QUAKERTOWN AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5404 Quakertown Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5408 QUAKERTOWN AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5410 QUAKERTOWN AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5410 Quakertown Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5419 QUAKERTOWN AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5422 QUAKERTOWN AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5429 QUAKERTOWN AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5429 Quakertown Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5440 Quakertown Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5440 QUAKERTOWN AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5460 WINNETIKA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5460 WINNETKA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5464 WINNETIKA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5464 WINNETKA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5468 WINNETKA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5472 WINNETIKA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5472 WINNETKA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5480 QUAKERTOWN AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5480 Quakertown Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5504 QUAKERTOWN AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5550 WINNETKA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

Appendix F. Site Reconnaissance Photographs

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
1	6-27-2017

Description:

Administration building at the south end of front parking lot beneath the large trees.

Photo No:	**Date:**
2	6-27-2017

Description:

Classroom building A viewed to the southeast from the central quad.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
3	6-27-2017

Description:

Classroom building B viewed to the northeast from Santa Rita Street.

Photo No:	**Date:**
4	6-27-2017

Description:

Classroom building C viewed to the west from Santa Rita Street.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
5	6-27-2017

Description:

Classroom buildings E & F viewed to the west from Santa Rita Street.

Photo No:	**Date:**
6	6-27-2017

Description:

Multi-purpose building viewed to the northwest from Santa Rita Street.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
7	6-27-2017

Description:

Classroom building G viewed to the northeast from Santa Rita Street.

Photo No:	**Date:**
8	6-27-2017

Description:

Gymnasium viewed to the northwest from Santa Rita Street.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
9	6-27-2017

Description:

Utility building with flammable liquids storage. See photos 31 and 32.

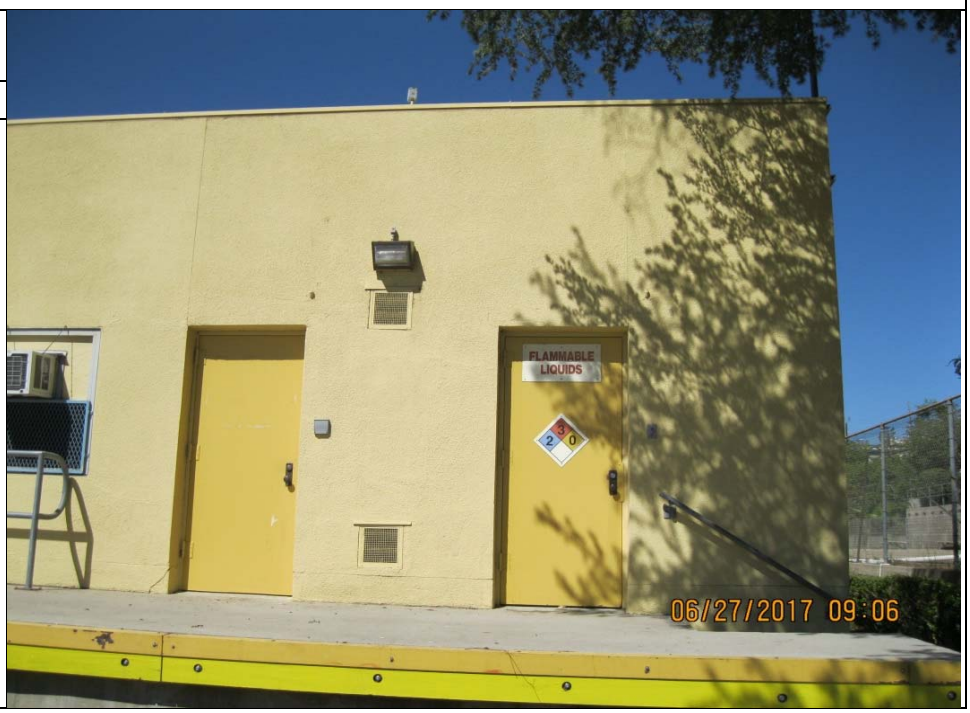


Photo No:	**Date:**
10	6-27-2017

Description:

Former gardeners shed behind the utility building. Note: currently used for storage of antique tractor and miscellaneous equipment.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
11	6-27-2017

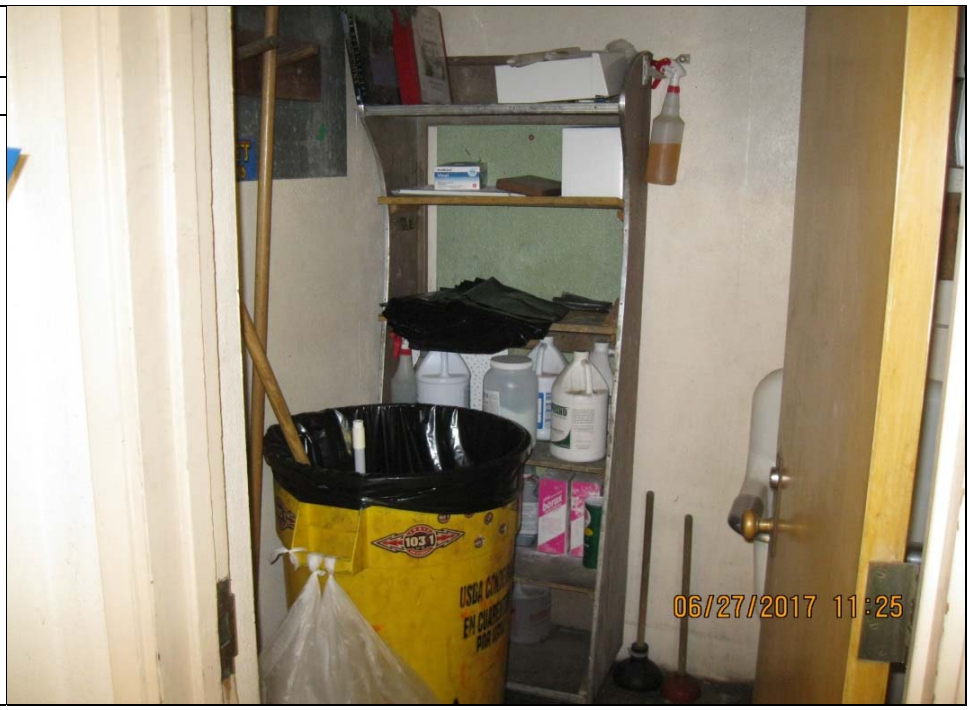
Description:

Classroom building D viewed to the southwest from the central quad.

Photo No:	**Date:**
12	6-27-2017

Description:

Janitorial closet on the first floor of classroom building D. Typical of closets in the classroom buildings.



PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
13	6-27-2017

Description:

Electrical transformer enclosure located to the east of the industrial arts building (yellow structure) and south of the former auto shop.

Photo No:	**Date:**
14	6-27-2017

Description:

Close up of the transformers shown in photo number 13.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
15	6-27-2017

Description:

Flammable liquids storage room located at the east end of the industrial arts building. Currently being used for general storage (see photo number 16 below)

Photo No:	**Date:**
16	6-27-2017

Description:

General storage of supplies etc. in photo number 15 above.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
17	6-27-2017

Description:

Portable classrooms to the left of the photo and semi-permanent classrooms to the right of the photo. Location of these classrooms is at the far west end of the campus.

Photo No:	**Date:**
18	6-27-2017

Description:

Semi-permanent bathroom building which is shown on the right side of photo number 17.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
19	6-27-2017

Description:

Former industrial arts classroom currently used for text book storage.

Photo No:	**Date:**
20	6-27-2017

Description:

Fume hood located in text book storage room.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
21	6-27-2017

Description:

Large diameter pipe from fume hood shown in photo number 20 appears to be transite in nature.

Photo No:	**Date:**
22	6-27-2017

Description:

Industrial arts classroom, possibly former wood shop. Duct work along back wall leads to a cyclone structure outside of the building.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
23	6-27-2017

Description:

Example of mercury HVAC thermometer in Industrial arts classrooms.

Photo No:	**Date:**
24	6-27-2017

Description:

Stairwell at located at the southeast corner of the main industrial arts building leading to a basement boiler room.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
25	6-27-2017

Description:

Partial view of equipment located in boiler room.

Photo No:	**Date:**
26	6-27-2017

Description:

Example of asbestos hazard label on boiler room piping.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
27	6-27-2017

Description:

View to the west of the access gates and roll up doors for the former auto shop. Currently used as a weight room for the football team.

Photo No:	**Date:**
28	6-27-2017

Description:

Three stage clarifier located outside the former auto shop building.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	Date:
29	6-27-2017

Description:

View inside the former auto shop building. Note: the carpeting on the floor prevented the inspection for possible hydraulic lifts, or other structures.

Photo No:	Date:
30	6-27-2017

Description:

Old transformer located in the co-generation room immediately west of the main transformer enclosure shown in photos 13 and 14.

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	Date:
31	6-27-2017

Description:

Supplies stored in the utility building.

Photo No:	Date:
32	6-27-2017

Description:

Two 55-gallon drums containing gasoline located in the flammable liquids storage room of the utility building. Note: walls appeared to be constructed of concrete and appeared to be approximately 1-foot thick. Fresh air vents were observed in the wall to the right of the drums.

PLACEWORKS

PHOTO ESSAY

Client Name: Los Angeles Unified School District

Site Location: William Howard Taft High School

Project No.: LASD1-32.3

Photo No:	**Date:**
31	6-27-2017

Description:

Closed ExxonMobil gasoline station across Ventura Boulevard to the north of Taft High School.

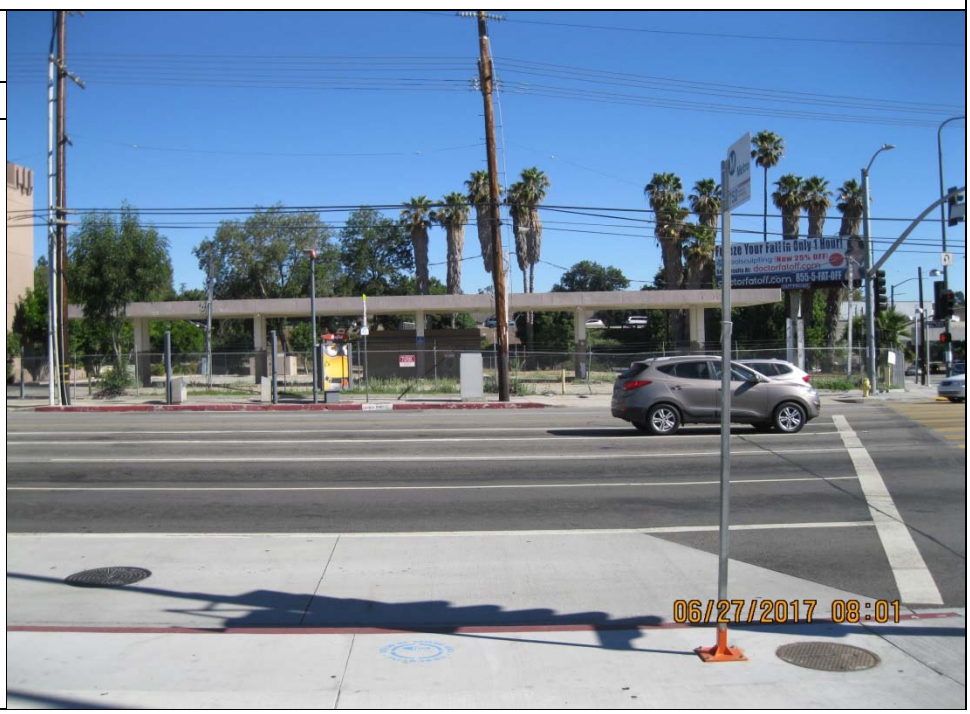


Photo No:	**Date:**
32	9/3/2017

Description:

Active dry-cleaning establishment across Winnetka Avenue to the east.

Appendix G. CDE Checklist for Existing School

Preliminary Environmental Screening of Proposed Project at Existing School Site

The "Project" includes the following at Taft Charter High School, 5641 Winnetka, Woodland Hills, CA 91364:

- Remove two 2-story pre-fabricated classroom buildings,
- Modernize two Industrial Arts Buildings
- Remove and Replace the Administrative and Multipurpose Buildings

Selection Criteria	Yes	No	Comments
High Voltage Power Transmission Lines [CCR, Title 5, 14010(c)]			
Will the project create or exacerbate any health risks to students from 50-133 kV power lines within100 feet of the site?		X	
Will the project create or exacerbate any health risks to students from 220-230 kV power lines within150 feet of the site?		X	
Will the project create or exacerbate any health risks to students from 500-550 kV power lines within350 feet of the site?		X	
Railroads [CCR, Title 5, 14010(d)]			
Will the project create or exacerbate any safety risks to students from railroads within 1,500 feet of the site?		X	There are no railroads within 1,500 feet of the site
Traffic Noise [CCR, Title 5, 14010(e)]			
Will the project create or exacerbate any noise impacts to students from adjacent roads or freewaysthat will adversely affect the educational program?		X	
Faults [CCR, Title 5, 14010(f)]			
Will the project create or exacerbate and safety risks to students from active fault traces which may be onsite?		X	The project site is not located within an active fault zone
Flood or Inundation Area [CCR, Title 5, 14010(g)]			
Will the project create or exacerbate safety risks to students from flooding or dam inundation?		X	The project site does not lie within a flood inundation zone
Pipelines and Above Ground Tanks [CCR, Title 5, 14010(h)]			
Will the project create or exacerbate safety risks to students from nearby above ground water or fuelstorage tanks?		X	There are no nearby above ground water or fuel storage tanks
Will the project create or exacerbate safety risks to students from high-pressure hazardous materialpipelines located within 1,500 feet of the site?		X	No hazardous liquid or gas transmission pipelines are within 1,500 feet of the site
Liquefaction and Landslides [CCR, Title 5, 14010(i)]			
Will the project create or exacerbate safety risks to students from liquefaction or landslides?		X	As the project site is within an area susceptible to liquefication and landslides, mitigation measures must be incorporated into the design to avoid increasing the current safety risks to students.
Traffic and Pedestrian Safety [CCR, Title 5, 14010(l)]			
Will the project create or exacerbate traffic/pedestrian safety risks to students from an adjacent major arterial street?		X	
Compatible Zoning [CCR, Title 5, 14010(m)]			

Preliminary Environmental Screening of Proposed Project at Existing School Site

continued

Selection Criteria	Yes	No	Comments
Will the project create or exacerbate health or safety risks to students from the zoning surround the site?		X	No changes in zoning would occur due to the project
Light, Wind, Air Pollution [CCR, Title 5, 14010(q)]			
Will the project create or exacerbate impacts to students from light, wind, or air pollution?		X	
Easements [CCR, Title 5, 14010(r)]			
Will the project create or exacerbate impacts to students from easements on or adjacent to the sitewhich may restrict access or building placement?		X	
Border Zone Property [CCR, Title 5, 14010(t)]			
Will the project create or exacerbate health and safety risks to students from a significant disposal ofhazardous waste within 2,000 ft. of the site?		X	There are no landfills within 2,000 feet of the site
Cellular Phone Towers [LAUSD Board Resolution]			
Will the project create or exacerbate health risks to students from a cellular phone tower on oradjacent to the site?		X	There are no cellular phone towers on or adjacent to the site
Methane Zone			
Will the project create or exacerbate health and safety risks to students from a known methane zone or oil field?		X	The site is not within a methane zone, methane buffer zone, or oil field
Oil Wells			
Will the project create or exacerbate health and safety risks to students from an onsite oil well?		X	No oil or gas wells are located onsite
Air Pollution [LAUSD Board Resolution]			
Will the project create or exacerbate health risks to students from a major transportation corridor(freeway, major rail line) within 500 feet?		X	
Will the project create or exacerbate health risks to students from a major stationary source ofemissions within 500 feet?		X	
Is the school on the Priority List of Schools Most at Risk from Air Pollution?		X	
Will the project create or exacerbate health risks to students from a high-risk facility previouslyidentified by OEHS?		X	
Airports [CCR, Title 5, 14010(t)]			
Will the project create or exacerbate health and safety risks to students from an airport within twonautical miles of the site?		X	No airports are present within two miles of the project site

Appendix H. EDR® Regulatory Agency Research Report (Radius Map)

Taft High School
5461 Winnetka Ave
Woodland Hills, CA 91364

Inquiry Number: 5037330.2s
August 30, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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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

5461 WINNETKA AVE
WOODLAND HILLS, CA 91364

COORDINATES

Latitude (North):	34.1685250 - 34˚ 10' 6.69''
Longitude (West):	118.5733600 - 118˚ 34' 24.09''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	354981.1
UTM Y (Meters):	3781765.5
Elevation:	842 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630737 CANOGA PARK, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140531
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
5461 WINNETKA AVE
WOODLAND HILLS, CA 91364

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LAUSD/TAFT HIGH SCHO	5461 WINNETKA AVE	HAZNET		TP
A2	LA UNI SCH DIST, TAF	5461 WINNETKA AV	EMI		TP
A3	LAUSD - TAFT HIGH SC	5461 N WINNETKA AVE	FINDS		TP
4	BELL BOY CLEANERS	5460 WINNETKA BLVD	EDR Hist Cleaner	Higher	45, 0.009, East
B5	MOBIL 11 183	20101 VENTURA BLVD	EDR Hist Auto	Lower	207, 0.039, NNE
B6	MOBIL OIL STATION	20101 VENTURA BLVD	SWEEPS UST, HIST UST, CA FID UST, CHMIRS	Lower	207, 0.039, NNE
B7	MOBIL SMI	20101 VENTURA BLVD	HIST UST	Lower	207, 0.039, NNE
B8	MOBILE 18183	20101 VENTURA BLVD	LUST, LA Co. Site Mitigation	Lower	207, 0.039, NNE
B9	MOBIL SERVICE STATIO	20101 VENTURA BLVD	UST	Lower	207, 0.039, NNE
B10	EXXONMOBIL OIL CORPO	20101 VENTURA BLVD	RCRA-LQG	Lower	207, 0.039, NNE
C11	REPLANET LLC	20060 VENTURA BLVD	SWRCY	Higher	215, 0.041, ENE
12	RAMCO FUEL & SERVICE	20350 VENTURA BLVD S	EDR Hist Auto	Higher	216, 0.041, West
D13	BELL BOY CLEANERS	20050 VENTURA BLVD	EDR Hist Cleaner	Lower	258, 0.049, NE
D14	PRIME CLEANERS	20051 VENTURA BLVD	EDR Hist Cleaner	Lower	393, 0.074, NE
15	THOREAU CONTINUATION	5429 QUAKERTOWN AVE	RCRA-LQG	Higher	408, 0.077, East
C16	BENS CARPET CARE	5480 QUAKERTOWN AVE	EDR Hist Cleaner	Higher	480, 0.091, ENE
D17	PRIME CLEANERS	20051 VENTURA BLVD	RCRA NonGen / NLR, DRYCLEANERS	Lower	505, 0.096, NE
D18	PRIME CLEANERS	20051 VENTURA BLVD S	RCRA-SQG, FINDS, ECHO	Lower	505, 0.096, NE
D19	NIX AUTO SERVICES	20032 VENTURA BLVD	LUST, HIST CORTESE	Lower	515, 0.098, NE
D20	NIX FRANK ARCO SERVI	20032 VENTURA BLVD	EDR Hist Auto	Lower	515, 0.098, NE
D21	ARCO SERVICE STATION	20032 VENTURA BLVD	SWEEPS UST, CA FID UST	Lower	515, 0.098, NE
D22	ARCO SERVICE STATION	20032 VENTURA BLVD	HIST UST	Lower	515, 0.098, NE
E23	CHEVRON SERVICE CENT	5550 WINNETKA AVE	SWEEPS UST, CA FID UST	Lower	612, 0.116, NNE
E24	MAC BHUPINDER SINGH	5550 WINNETKA AVE	EDR Hist Auto	Lower	612, 0.116, NNE
E25	CHEVRON STATION 9 94	5550 WINNETKA	RCRA-SQG, FINDS, ECHO	Lower	612, 0.116, NNE
E26	99460	5550 WINNETKA	HIST UST	Lower	612, 0.116, NNE
E27	CHEVRON #9-9460 (FOR	5550 WINNETKA	LUST, HIST CORTESE	Lower	612, 0.116, NNE
F28	MISSION CARWASH	20021 W VENTURA BLVD	UST	Lower	680, 0.129, NE
F29	WOODLAND HILLS 76	20021 VENTURA BLVD.	UST	Lower	680, 0.129, NE
F30	WOODLAND HILLS NISSA	20021 VENTURA BLVD	RCRA-SQG, FINDS, ECHO	Lower	680, 0.129, NE
F31	UNKNOWN	20021 VENTURA BLVD	SWEEPS UST, CA FID UST	Lower	680, 0.129, NE
F32	WOODLAND HILLS AUTO	20021 VENTURA	LUST, HIST CORTESE	Lower	680, 0.129, NE
33	CORBIN VILLAGE CLEAN	19812 VENTURA BLVD	RCRA-SQG, SLIC, FINDS, ECHO, EMI, HAZNET, WDS	Lower	2002, 0.379, ENE
G34	GASOLINE SERV. STATI	20641 VENTURA BLVD	LUST	Higher	2059, 0.390, West
G35	GASOLINE SERV. STATI	20641 VENTURA BLVD	LUST, HIST CORTESE	Higher	2059, 0.390, West
36	OSO AVENUE ELEMENTAR	5724 OSO AVENUE	ENVIROSTOR, SCH	Higher	2243, 0.425, NNW
37	CHIME CHARTER ELEMEN	19722 COLLIER STREET	ENVIROSTOR, SCH	Higher	2677, 0.507, ESE
38	PIERCE COLLEGE NORTH	6201 WINNETKA AVENUE	ENVIROSTOR, LUST, VCP, HIST CORTESE, NPDES	Higher	4183, 0.792, NNW
39	KAISER PERMANENTE ME	5601 DE SOTO AVE	RCRA-SQG, ENVIROSTOR, FINDS, ECHO, EMI	Higher	4298, 0.814, West

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
LAUSD/TAFT HIGH SCHO 5461 WINNETKA AVE WOODLAND HILLS, CA 91364	HAZNET GEPAID: CAD982039422	N/A
LA UNI SCH DIST, TAF 5461 WINNETKA AV WOODLAND HILLS, CA 91364	EMI Facility Id: 71578	N/A
LAUSD - TAFT HIGH SC 5461 N WINNETKA AVE WOODLAND HILLS, CA 91364	FINDS Registry ID:: 110065166929	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 CERCLIS NFRAP site list

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

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 - equivalent NPL

RESPONSE..... State Response Sites

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
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
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
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
AOCONCERN	San Gabriel Valley Areas of Concern
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
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

EXECUTIVE SUMMARY

DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
LOS ANGELES CO. HMS	HMS: Street Number List
HWP	EnviroStor Permitted Facilities Listing
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

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 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 12/12/2016 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THOREAU CONTINUATION	5429 QUAKERTOWN AVE	E 0 - 1/8 (0.077 mi.)	15	28

Lower Elevation	Address	Direction / Distance	Map ID	Page
EXXONMOBIL OIL CORPO	20101 VENTURA BLVD	NNE 0 - 1/8 (0.039 mi.)	B10	25

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/12/2016 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PRIME CLEANERS	***20051 VENTURA BLVD S***	***NE 0 - 1/8 (0.096 mi.)***	***D18***	***32***
CHEVRON STATION 9 94	***5550 WINNETKA***	***NNE 0 - 1/8 (0.116 mi.)***	***E25***	***46***
WOODLAND HILLS NISSA	***20021 VENTURA BLVD***	***NE 1/8 - 1/4 (0.129 mi.)***	***F30***	***52***

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 07/31/2017 has revealed that there are

EXECUTIVE SUMMARY

4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OSO AVENUE ELEMENTAR	***5724 OSO AVENUE***	***NNW 1/4 - 1/2 (0.425 mi.)***	***36***	***65***
Facility Id: 19820111 Status: Inactive - Withdrawn				
CHIME CHARTER ELEMEN	***19722 COLLIER STREET***	***ESE 1/2 - 1 (0.507 mi.)***	***37***	***68***
Facility Id: 60001138 Status: No Further Action				
PIERCE COLLEGE NORTH	***6201 WINNETKA AVENUE***	***NNW 1/2 - 1 (0.792 mi.)***	***38***	***70***
Facility Id: 19820011 Status: No Further Action				
KAISER PERMANENTE ME	***5601 DE SOTO AVE***	***W 1/2 - 1 (0.814 mi.)***	***39***	***91***
Facility Id: 71003093 Status: Refer: Other Agency				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GASOLINE SERV. STATI	20641 VENTURA BLVD	W 1/4 - 1/2 (0.390 mi.)	G34	63
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: 913640389 Status: Case Closed Global ID: T0603702367				
GASOLINE SERV. STATI	***20641 VENTURA BLVD***	***W 1/4 - 1/2 (0.390 mi.)***	***G35***	***64***
Database: LUST, Date of Government Version: 06/12/2017 Status: Completed - Case Closed Global Id: T0603702367				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBILE 18183	***20101 VENTURA BLVD***	***NNE 0 - 1/8 (0.039 mi.)***	***B8***	***18***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 06/12/2017 Status: Completed - Case Closed Facility Id: 913640534 Status: Leak being confirmed Global Id: T0603740690 Global ID: T0603740690				
NIX AUTO SERVICES	***20032 VENTURA BLVD***	***NE 0 - 1/8 (0.098 mi.)***	***D19***	***34***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 06/12/2017 Status: Completed - Case Closed				

Facility Id: 913640516
Status: Pollution Characterization
Global Id: T0603702378
Global ID: T0603702378

CHEVRON #9-9460 (FOR ***5550 WINNETKA*** ***NNE 0 - 1/8 (0.116 mi.)*** ***E27*** ***49***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 06/12/2017
Status: Completed - Case Closed
Facility Id: 913640170
Status: Case Closed
Global Id: T0603702363
Global ID: T0603702363

WOODLAND HILLS AUTO ***20021 VENTURA*** ***NE 1/8 - 1/4 (0.129 mi.)*** ***F32*** ***54***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 06/12/2017
Status: Completed - Case Closed
Facility Id: 913640470
Status: Case Closed
Global Id: T0603702374
Global ID: T0603702374

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CORBIN VILLAGE CLEAN	***19812 VENTURA BLVD***	***ENE 1/4 - 1/2 (0.379 mi.)***	***33***	***57***

Database: SLIC REG 4, Date of Government Version: 11/17/2004
Database: SLIC, Date of Government Version: 06/12/2017
Facility Status: Open - Remediation
Facility Status: Site Assessment
Global Id: SL0603701032

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL SERVICE STATIO	20101 VENTURA BLVD	NNE 0 - 1/8 (0.039 mi.)	B9	25

Database: UST, Date of Government Version: 06/12/2017

Facility Id: 23466				
MISSION CARWASH Database: UST, Date of Government Version: 06/12/2017	20021 W VENTURA BLVD	NE 1/8 - 1/4 (0.129 mi.)	F28	51
WOODLAND HILLS 76 Database: UST, Date of Government Version: 06/12/2017 Facility Id: 23836 Facility Id: FA0025842	20021 VENTURA BLVD.	NE 1/8 - 1/4 (0.129 mi.)	F29	52

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 03/13/2017 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REPLANET LLC Cert Id: RC155799.001	20060 VENTURA BLVD	ENE 0 - 1/8 (0.041 mi.)	C11	27

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL OIL STATION Status: A Tank Status: A Comp Number: 2012	***20101 VENTURA BLVD***	***NNE 0 - 1/8 (0.039 mi.)***	***B6***	***11***
ARCO SERVICE STATION Status: A Tank Status: A Comp Number: 3368	***20032 VENTURA BLVD***	***NE 0 - 1/8 (0.098 mi.)***	***D21***	***42***
CHEVRON SERVICE CENT Comp Number: 4341	***5550 WINNETKA AVE***	***NNE 0 - 1/8 (0.116 mi.)***	***E23***	***45***
UNKNOWN Comp Number: 7902	***20021 VENTURA BLVD***	***NE 1/8 - 1/4 (0.129 mi.)***	***F31***	***54***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL OIL STATION	***20101 VENTURA BLVD***	***NNE 0 - 1/8 (0.039 mi.)***	***B6***	***11***
MOBIL SMI Facility Id: 00000039705	20101 VENTURA BLVD	NNE 0 - 1/8 (0.039 mi.)	B7	17
ARCO SERVICE STATION Facility Id: 00000061212	20032 VENTURA BLVD	NE 0 - 1/8 (0.098 mi.)	D22	44
99460 Facility Id: 00000063207	5550 WINNETKA	NNE 0 - 1/8 (0.116 mi.)	E26	48

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL OIL STATION Facility Id: 19055454 Status: A	***20101 VENTURA BLVD***	***NNE 0 - 1/8 (0.039 mi.)***	***B6***	***11***
ARCO SERVICE STATION Facility Id: 19049489 Status: A	***20032 VENTURA BLVD***	***NE 0 - 1/8 (0.098 mi.)***	***D21***	***42***
CHEVRON SERVICE CENT Facility Id: 19001823 Status: I	***5550 WINNETKA AVE***	***NNE 0 - 1/8 (0.116 mi.)***	***E23***	***45***
UNKNOWN Facility Id: 19003537 Status: I	***20021 VENTURA BLVD***	***NE 1/8 - 1/4 (0.129 mi.)***	***F31***	***54***

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 12/12/2016 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PRIME CLEANERS	***20051 VENTURA BLVD***	***NE 0 - 1/8 (0.096 mi.)***	***D17***	***30***

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 03/09/2017 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PRIME CLEANERS EPA Id: CAL000321685 EPA Id: CAD982436610	***20051 VENTURA BLVD***	***NE 0 - 1/8 (0.096 mi.)***	***D17***	***30***

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 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GASOLINE SERV. STATI Reg Id: 913640389	***20641 VENTURA BLVD***	***W 1/4 - 1/2 (0.390 mi.)***	***G35***	***64***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NIX AUTO SERVICES Reg Id: 913640516	***20032 VENTURA BLVD***	***NE 0 - 1/8 (0.098 mi.)***	***D19***	***34***
CHEVRON #9-9460 (FOR Reg Id: 913640170	***5550 WINNETKA***	***NNE 0 - 1/8 (0.116 mi.)***	***E27***	***49***
WOODLAND HILLS AUTO Reg Id: 913640470	***20021 VENTURA***	***NE 1/8 - 1/4 (0.129 mi.)***	***F32***	***54***

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 4 EDR Hist Auto

sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RAMCO FUEL & SERVICE	20350 VENTURA BLVD S	W 0 - 1/8 (0.041 mi.)	12	27

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL 11 183	20101 VENTURA BLVD	NNE 0 - 1/8 (0.039 mi.)	B5	11
NIX FRANK ARCO SERVI	20032 VENTURA BLVD	NE 0 - 1/8 (0.098 mi.)	D20	41
MAC BHUPINDER SINGH	5550 WINNETKA AVE	NNE 0 - 1/8 (0.116 mi.)	E24	46

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 are 4 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

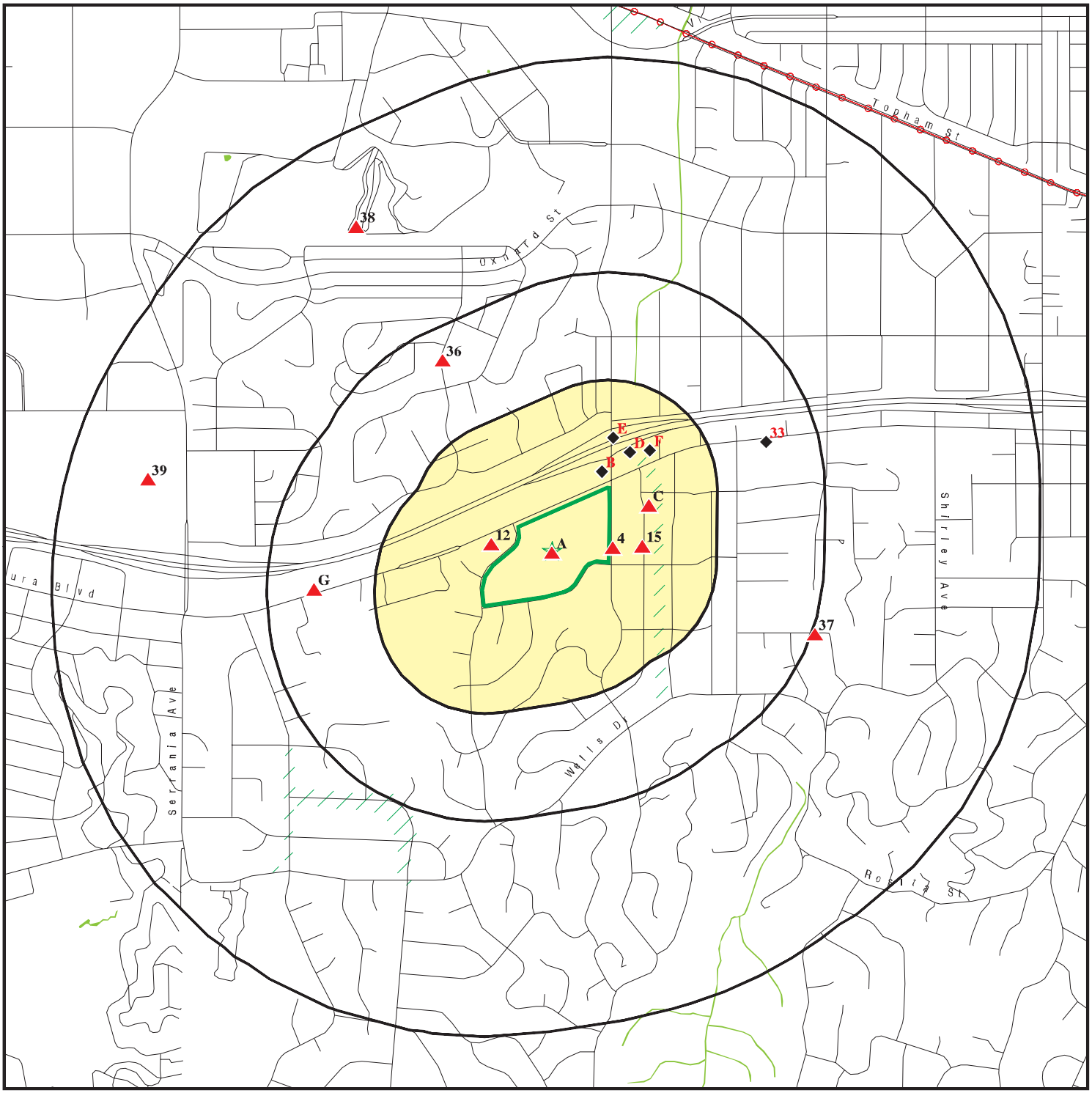
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BELL BOY CLEANERS	5460 WINNETKA BLVD	E 0 - 1/8 (0.009 mi.)	4	10
BENS CARPET CARE	5480 QUAKERTOWN AVE	ENE 0 - 1/8 (0.091 mi.)	C16	30

Lower Elevation	Address	Direction / Distance	Map ID	Page
BELL BOY CLEANERS	20050 VENTURA BLVD	NE 0 - 1/8 (0.049 mi.)	D13	27
PRIME CLEANERS	20051 VENTURA BLVD	NE 0 - 1/8 (0.074 mi.)	D14	28

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5037330.2S



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

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

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: Taft High School	CLIENT: PlaceWorks
ADDRESS: 5461 Winnetka Ave Woodland Hills CA 91364	CONTACT: Robyn Chaconas
LAT/LONG: 34.168525 / 118.57336	INQUIRY #: 5037330.2s
	DATE: August 30, 2017 9:11 pm

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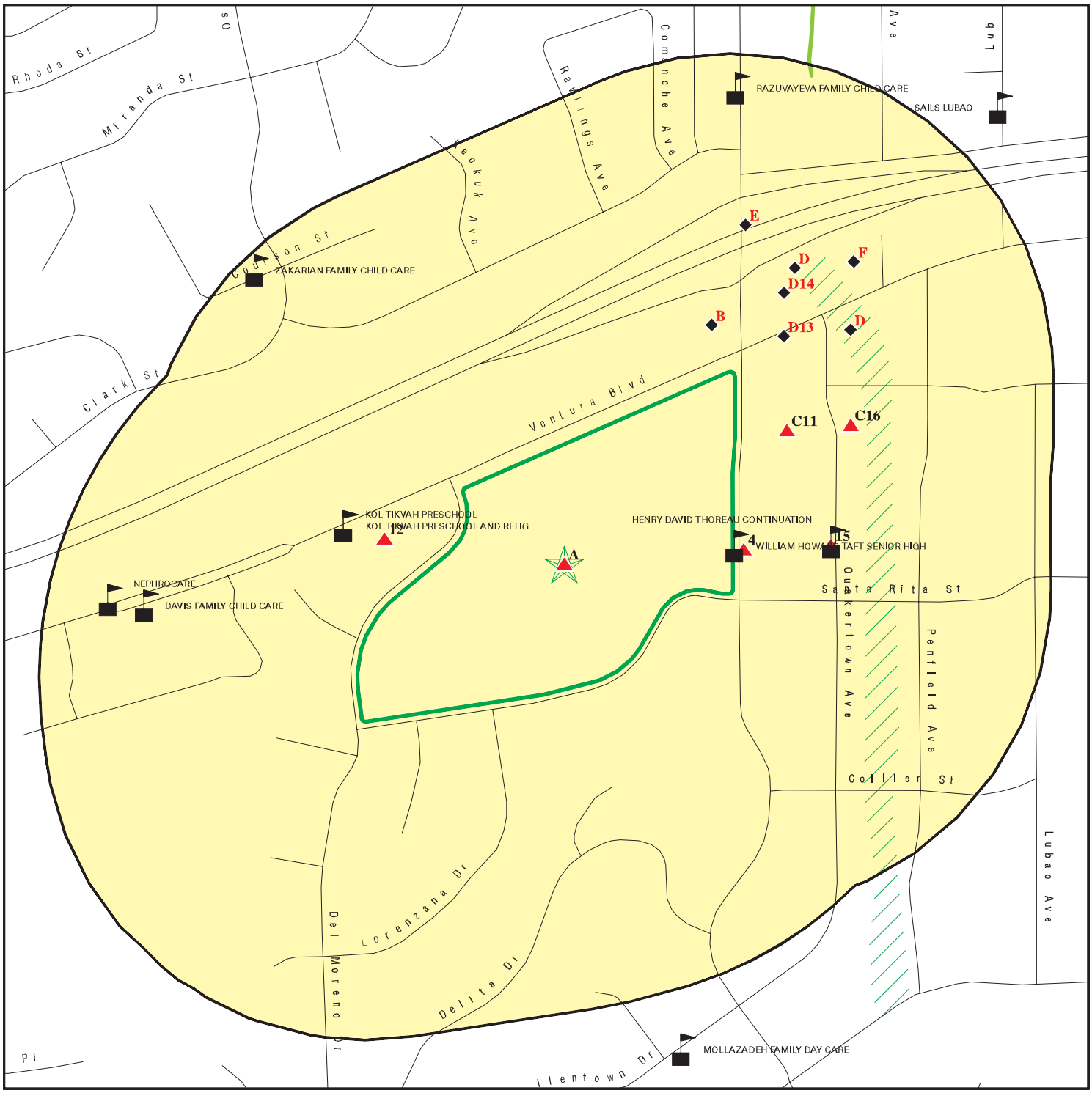
DETAIL MAP - 5037330.2S



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

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

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: Taft High School	CLIENT: PlaceWorks
ADDRESS: 5461 Winnetka Ave Woodland Hills CA 91364	CONTACT: Robyn Chaconas
LAT/LONG: 34.168525 / 118.57336	INQUIRY #: 5037330.2s
	DATE: August 30, 2017 9:12 pm

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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	0.001		0	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	0	NR	NR	0
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		2	0	NR	NR	NR	2
RCRA-SQG	0.250		2	1	NR	NR	NR	3
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	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	1	3	NR	4
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		3	1	2	NR	NR	6

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		1	2	NR	NR	NR	3
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	0	NR	NR	0
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		1	0	0	NR	NR	1
HAULERS	0.001		0	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
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		3	1	NR	NR	NR	4
HIST UST	0.250		4	0	NR	NR	NR	4
CA FID UST	0.250		3	1	NR	NR	NR	4
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	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
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	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	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
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		1	0	NR	NR	NR	1
EMI	0.001	1	0	NR	NR	NR	NR	1

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
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		2	1	1	NR	NR	4
LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	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	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	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		4	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		4	NR	NR	NR	NR	4
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		3	31	7	5	3	0	49

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **LAUSD/TAFT HIGH SCHOOL**
5461 WINNETKA AVE
WOODLAND HILLS, CA 91364 | **HAZNET** | **S113013230**
N/A

Site 1 of 3 in cluster A

Actual: 842 ft.

HAZNET:

envid:	S113013230
Year:	2015
GEPAID:	CAD982039422
Contact:	PAT SCHAENEN
Telephone:	2132413921
Mailing Name:	Not reported
Mailing Address:	333 S BEAUDRY AVE FL 28
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
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:	0.46
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:	S113013230
Year:	2013
GEPAID:	CAD982039422
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:	0.032
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113013230
Year:	2009
GEPAID:	CAD982039422
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

LAUSD/TAFT HIGH SCHOOL (Continued) **S113013230**

	Include On-Site Treatment And/Or Stabilization)
Tons:	0.8
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113013230
Year:	2008
GEPAID:	CAD982039422
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:	3.6
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113013230
Year:	2007
GEPAID:	CAD982039422
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:	2.8
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
21 additional CA_HAZNET: record(s) in the EDR Site Report.

A2 Target Property **LA UNI SCH DIST, TAFT HIGH SCH**
5461 WINNETKA AV
WOODLAND HILLS, CA 91364

EMI **S102808010**
N/A

Site 2 of 3 in cluster A

Actual: 842 ft.

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	71578

LA UNI SCH DIST, TAFT HIGH SCH (Continued) **S102808010**

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 and Smllr Tons/Yr:	0

A3
Target
Property

LAUSD - TAFT HIGH SCHOOL
5461 N WINNETKA AVE
WOODLAND HILLS, CA 91364

FINDS **1023229671**
N/A

Site 3 of 3 in cluster A

Actual:
842 ft.

FINDS:

Registry ID: 110065166929

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

4
East
< 1/8
0.009 mi.
45 ft.

BELL BOY CLEANERS
5460 WINNETKA BLVD
WOODLAND HLS, CA 91364

EDR Hist Cleaner **1018454632**
N/A

Relative:
Higher

Actual:
851 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1970	FARELL ALBERT M	Drycleaning Plants, Except Rugs
1980	BELL BOY CLEANERS	Garment Pressing And Cleaners' Agents
1982	BELL BOY CLEANERS	Garment Pressing And Cleaners' Agents
1983	BELL BOY CLEANERS	Garment Pressing And Cleaners' Agents
1985	BELL BOY CLEANERS	Garment Pressing And Cleaners' Agents
1986	BELL BOY CLEANERS	Garment Pressing And Cleaners' Agents
1987	BELL BOY CLEANERS	Garment Pressing And Cleaners' Agents
1988	BELL BOY CLEANERS	Garment Pressing And Cleaners' Agents
1989	BELL BOY CLEANERS	Laundry And Drycleaner Agents
1990	BELL BOY CLEANERS	Laundry And Drycleaner Agents
1991	PATEL JAY	Laundry And Drycleaner Agents
1992	PATEL JAY	Laundry And Drycleaner Agents
1993	PATEL JAY	Laundry And Drycleaner Agents
1994	PATEL JAY	Laundry And Drycleaner Agents
1995	PATEL JAY	Laundry And Drycleaner Agents

B5 NNE < 1/8 0.039 mi. 207 ft. | **MOBIL 11 183**
20101 VENTURA BLVD
WOODLAND HILLS, CA 91364

EDR Hist Auto | **1021427526**
N/A

Site 1 of 6 in cluster B

Relative: Lower

Actual: 831 ft.

EDR Hist Auto

Year:	Name:	Type:
2002	MOBIL 11 183	Gasoline Service Stations
2003	MOBIL 11 183	Gasoline Service Stations
2004	MOBIL 11 183	Gasoline Service Stations
2005	MOBIL 11 183	Gasoline Service Stations, NEC
2006	MOBIL 11 183	Gasoline Service Stations, NEC
2007	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2007	MOBIL 11 183	Gasoline Service Stations, NEC
2008	MOBIL 11 183	Gasoline Service Stations, NEC
2008	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2009	MOBIL 11 183	Gasoline Service Stations, NEC
2009	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2010	MOBIL 11 183	Gasoline Service Stations, NEC
2010	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2011	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2011	MOBIL 11 183	Gasoline Service Stations, NEC
2012	MOBIL 11 183	Gasoline Service Stations, NEC
2012	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2013	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2013	MOBIL 11 183	Gasoline Service Stations, NEC
2014	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2014	MOBIL 11 183	Gasoline Service Stations, NEC

B6 NNE < 1/8 0.039 mi. 207 ft. | **MOBIL OIL STATION**
20101 VENTURA BLVD
WOODLAND HILLS, CA 91364

SWEEPS UST
HIST UST
CA FID UST
CHMIRS

S101587378
N/A

Site 2 of 6 in cluster B

Relative: Lower

Actual: 831 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	2012
Number:	Not reported
Board Of Equalization:	44-000400
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-002012-000001
Tank Status:	Not reported
Capacity:	280
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	4

Status:	Not reported
Comp Number:	2012
Number:	Not reported
Board Of Equalization:	44-000400
Referral Date:	Not reported

MOBIL OIL STATION (Continued) **S101587378**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-002012-000002
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	2012
Number:	Not reported
Board Of Equalization:	44-000400
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-002012-000003
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	2012
Number:	Not reported
Board Of Equalization:	44-000400
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-002012-000004
Tank Status:	Not reported
Capacity:	9940
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2012
Number:	9
Board Of Equalization:	44-000400
Referral Date:	11-21-92
Action Date:	10-07-93
Created Date:	02-29-88
Owner Tank Id:	0000002012
SWRCB Tank Id:	19-050-002012-000005
Tank Status:	A
Capacity:	8000

MOBIL OIL STATION (Continued) **S101587378**

Active Date:	11-21-92
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	6

Status:	Active
Comp Number:	2012
Number:	9
Board Of Equalization:	44-000400
Referral Date:	11-21-92
Action Date:	10-07-93
Created Date:	02-29-88
Owner Tank Id:	0000002012
SWRCB Tank Id:	19-050-002012-000006
Tank Status:	A
Capacity:	8000
Active Date:	11-21-92
Tank Use:	M.V. FUEL
STG:	P
Content:	PREMIUM UNLE
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2012
Number:	9
Board Of Equalization:	44-000400
Referral Date:	11-21-92
Action Date:	10-07-93
Created Date:	02-29-88
Owner Tank Id:	0000002012
SWRCB Tank Id:	19-050-002012-000007
Tank Status:	A
Capacity:	8000
Active Date:	11-21-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2012
Number:	9
Board Of Equalization:	44-000400
Referral Date:	11-21-92
Action Date:	10-07-93
Created Date:	02-29-88
Owner Tank Id:	0000002012
SWRCB Tank Id:	19-050-002012-000008
Tank Status:	A
Capacity:	8000
Active Date:	11-21-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

MOBIL OIL STATION (Continued) **S101587378**

Status:	Active
Comp Number:	2012
Number:	9
Board Of Equalization:	44-000400
Referral Date:	11-21-92
Action Date:	10-07-93
Created Date:	02-29-88
Owner Tank Id:	0000002012
SWRCB Tank Id:	19-050-002012-000009
Tank Status:	A
Capacity:	8000
Active Date:	11-21-92
Tank Use:	M.V. FUEL
STG:	P
Content:	PRM UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2012
Number:	9
Board Of Equalization:	44-000400
Referral Date:	11-21-92
Action Date:	10-07-93
Created Date:	02-29-88
Owner Tank Id:	0000002012
SWRCB Tank Id:	19-050-002012-000010
Tank Status:	A
Capacity:	10000
Active Date:	11-21-92
Tank Use:	M.V. FUEL
STG:	P
Content:	METHANOL
Number Of Tanks:	Not reported

HIST UST:

File Number:	00027EE9
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027EE9.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

MOBIL OIL STATION (Continued) **S101587378**

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	19055454
Regulated By:	UTNKA
Regulated ID:	00039705
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8189532610
Mail To:	Not reported
Mailing Address:	612 S FLOWER ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	WOODLAND HILLS 913640000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CHMIRS:

OES Incident Number:	5-3561
OES notification:	06/14/2005
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
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:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Responsible Party
Containment:	Not reported

MOBIL OIL STATION (Continued) **S101587378**

What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	Veeder Root
Incident Date:	6/14/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Service Station
E Date:	Not reported
Substance:	Gasoline
Gallons:	.5
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Gasoline fell on the ground while customer fueling personal vehicle at Exxon gas station
OES Incident Number:	5-5117
OES notification:	09/01/2005
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
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

MOBIL OIL STATION (Continued) **S101587378**

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:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	Veeder Root
Incident Date:	9/1/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Gasoline
Gallons:	1
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Exxon Mobile gas station auto shut off at the pump failed.

B7 **MOBIL SMI** **HIST UST** **U001568024**
NNE **20101 VENTURA BLVD** **N/A**
< 1/8 **WOODLAND HILLS, CA 91364**
0.039 mi.
207 ft. **Site 3 of 6 in cluster B**

Relative:
Lower

Actual:
831 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000039705
Facility Type:	Gas Station
Other Type:	Not reported

MOBIL SMI (Continued) **U001568024**

Contact Name:	Not reported
Telephone:	8183402760
Owner Name:	MOBIL OIL CORPORATION
Owner Address:	612 SOUTH FLOWER STREET
Owner City,St,Zip:	LOS ANGELES, CA 90017
Total Tanks:	0004
Tank Num:	001
Container Num:	0359
Year Installed:	1969
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	0360
Year Installed:	1971
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Not reported
Tank Num:	003
Container Num:	0361
Year Installed:	1969
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	0362
Year Installed:	1969
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

B8 **MOBILE 18183** **LUST** **S106116336**
NNE **20101 VENTURA BLVD** **LA Co. Site Mitigation** **N/A**
< 1/8 **WOODLAND HILLS, CA 91364**
0.039 mi.
207 ft. **Site 4 of 6 in cluster B**

Relative:
Lower

Actual:
831 ft.

LUST:

Region:	STATE
Global Id:	T0603740690
Latitude:	34.171249
Longitude:	-118.571386
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/06/2010
Lead Agency:	LOS ANGELES RWQCB (REGION 4)

MOBILE 18183 (Continued) **S106116336**

Case Worker:	AT
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913640534
LOC Case Number:	22127-9897
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603740690
Contact Type:	Regional Board Caseworker
Contact Name:	ARMAN TOUMARI
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	atoumari@waterboards.ca.gov
Phone Number:	2135766708

Global Id:	T0603740690
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

Status History:

Global Id:	T0603740690
Status:	Completed - Case Closed
Status Date:	08/06/2010

Global Id:	T0603740690
Status:	Open - Case Begin Date
Status Date:	10/12/2001

Global Id:	T0603740690
Status:	Open - Site Assessment
Status Date:	06/30/2003

Global Id:	T0603740690
Status:	Open - Site Assessment
Status Date:	11/10/2003

Global Id:	T0603740690
Status:	Open - Site Assessment
Status Date:	04/23/2008

Regulatory Activities:

Global Id:	T0603740690
Action Type:	ENFORCEMENT
Date:	06/15/2009
Action:	Staff Letter

MOBILE 18183 (Continued) **S106116336**

Global Id: T0603740690
Action Type: Other
Date: 10/12/2001
Action: Leak Reported

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: ENFORCEMENT
Date: 01/29/2004
Action: Staff Letter

Global Id: T0603740690
Action Type: RESPONSE

MOBILE 18183 (Continued) **S106116336**

Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 04/23/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603740690
Action Type: ENFORCEMENT
Date: 07/21/2010
Action: Site Visit / Inspection / Sampling

Global Id: T0603740690
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 12/14/2009
Action: Well Installation Report

Global Id: T0603740690
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: REMEDIATION
Date: 08/01/2009
Action: Excavation

Global Id: T0603740690
Action Type: REMEDIATION
Date: 10/01/2009
Action: Excavation

MOBILE 18183 (Continued) **S106116336**

Global Id: T0603740690
Action Type: REMEDIATION
Date: 06/01/2009
Action: Excavation

Global Id: T0603740690
Action Type: ENFORCEMENT
Date: 08/06/2010
Action: Closure/No Further Action Letter

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2009
Action: Soil and Water Investigation Report

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603740690
Action Type: RESPONSE
Date: 01/26/2009
Action: Soil and Water Investigation Workplan

Global Id: T0603740690
Action Type: RESPONSE
Date: 09/22/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603740690
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2009
Action: Well Destruction Report

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603740690
Action Type: RESPONSE
Date: 04/15/2004
Action: Other Report / Document

Global Id: T0603740690
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE

MOBILE 18183 (Continued) **S106116336**

Date: 10/06/2010
Action: Well Destruction Report

Global Id: T0603740690
Action Type: RESPONSE
Date: 02/13/2004
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: Other
Date: 10/12/2001
Action: Leak Discovery

Global Id: T0603740690
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: Other
Date: 10/12/2001
Action: Leak Stopped

Global Id: T0603740690
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603740690
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913640534
Status: Leak being confirmed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: 22127-9897
Case Type: Undefined
Abatement Method Used at the Site: Not reported
Global ID: T0603740690
W Global ID: Not reported

MOBILE 18183 (Continued) **S106116336**

Staff:	AT	
Local Agency:	19050	
Cross Street:	WINNETKA	
Enforcement Type:	SEL	
Date Leak Discovered:	10/12/2001	
Date Leak First Reported:		10/12/2001
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	11/10/2003	
Date Leak Stopped:	10/12/2001	
Date Case Last Changed on Database:		Not reported
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	NPP	
Cause of Leak:	UNK	
Leak Source:	Piping	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		Not reported
Source of Cleanup Funding:		Piping
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:		3/3/2004
Hist Max MTBE Conc in Groundwater:		4440
Hist Max MTBE Conc in Soil:		16000
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	=	
Soil Qualifier:	=	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	LEE HANLEY	
RP Address:	1464 MADERA ROAD, SUITE N., #265	
Program:	LUST	
Lat/Long:	0 / 0	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	SHALLOW GROUNDWATER - CONTAMINATION UP TO 3,140 MICROGRAMS/L TPHG AND 4,300 UG/L MTBE	

LA Co. Site Mitigation:

Facility ID:	Not reported
Site ID:	SD0000289
Jurisdiction:	State
Case ID:	RO0001290
Abated:	Yes
Assigned To:	Kim Clark
Entered Date:	07/14/2009
Abated Date:	01/28/2010

B9 NNE < 1/8 0.039 mi. 207 ft. | **MOBIL SERVICE STATION 183** | **UST** | **U003779949**
20101 VENTURA BLVD | **N/A**
WOODLAND HILLS, CA 91364

Site 5 of 6 in cluster B

Relative: Lower
Actual: 831 ft.

UST:

Facility ID:	23466
Permitting Agency:	LOS ANGELES, CITY OF
Latitude:	34.172596
Longitude:	-118.569992

B10 NNE < 1/8 0.039 mi. 207 ft. | **EXXONMOBIL OIL CORPORATION 11473** | **RCRA-LQG** | **1007200195**
20101 VENTURA BLVD | **CAL000056205**
WOODLAND HILLS, CA 91364

Site 6 of 6 in cluster B

Relative: Lower
Actual: 831 ft.

RCRA-LQG:

Date form received by agency:	08/24/2010
Facility name:	EXXONMOBIL OIL CORPORATION 11473
Facility address:	20101 VENTURA BLVD WOODLAND HILLS, CA 91364
EPA ID:	CAL000056205
Mailing address:	EMES C/O JD2 ENVIRONMENTAL INC 800 WASHINGTON ST WEST CHESTER, PA 19380
Contact:	DONNA HYMES
Contact address:	800 WASHINGTON ST WEST CHESTER, PA 19380
Contact country:	US
Contact telephone:	(610) 430-8151
Contact email:	DHYMES@JD2ENV.COM
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 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	EXXONMOBIL OIL CORPORATION
Owner/operator address:	Not reported VA 22037
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/01/1999
Owner/Op end date:	Not reported

EXXONMOBIL OIL CORPORATION 11473 (Continued) **1007200195**

Owner/operator name: EXXONMOBIL OIL CORPORATION
Owner/operator address: GALLOWS RD
FAIRFAX, VA 22037
Owner/operator country: Not reported
Owner/operator telephone: (703) 846-3000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/01/1999
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: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Historical Generators:
Date form received by agency: 03/07/2004
Site name: EXXONMOBIL OIL CORP NO 11473
Classification: Small Quantity Generator

Date form received by agency: 03/07/2004
Site name: EXXONMOBIL OIL CORP NO 11473
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 02/28/2002
Site name: EXXONMOBIL OIL CORP.
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

C11 ENE < 1/8 0.041 mi. 215 ft. — **REPLANET LLC**, **20060 VENTURA BLVD**, **WOODLAND HILLS, CA 91364** — **SWRCY** — **S107138142** / **N/A**

Site 1 of 2 in cluster C

Relative: Higher

Actual: 844 ft.

SWRCY:

Reg Id:	155799
Cert Id:	RC155799.001
Mailing Address:	800 N Haven Ave Suite 120
Mailing City:	Ontario
Mailing State:	CA
Mailing Zip Code:	91764
Website:	http://www.replanet.com
Email:	Not reported
Phone Number:	(951) 520-1700
Grand Father:	N
Rural:	N
Operation Begin Date:	05/01/2012
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	CLOSED
Tuesday Hours Of Operation:	10:00 am - 4:30 pm; Closed 1:00 pm - 1:30 pm
Wednesday Hours Of Operation:	10:00 am - 4:30 pm; Closed 1:00 pm - 1:30 pm
Thursday Hours Of Operation:	10:00 am - 4:30 pm; Closed 1:00 pm - 1:30 pm
Friday Hours Of Operation:	10:00 am - 4:30 pm; Closed 1:00 pm - 1:30 pm
Saturday Hours Of Operation:	10:00 am - 4:30 pm; Closed 1:00 pm - 1:30 pm
Sunday Hours Of Operation:	CLOSED
Organization ID:	151891
Organization Name:	rePlanet LLC

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12 West < 1/8 0.041 mi. 216 ft. — **RAMCO FUEL & SERVICE**, **20350 VENTURA BLVD STE 23**, **WOODLAND HILLS, CA 91364** — **EDR Hist Auto** — **1021698732** / **N/A**

Relative: Higher

Actual: 956 ft.

EDR Hist Auto

Year:	Name:	Type:
2007	RAMCO FUEL & SERVICE	Gasoline Service Stations
2008	RAMCO FUEL & SERVICE	Gasoline Service Stations

D13 NE < 1/8 0.049 mi. 258 ft. — **BELL BOY CLEANERS**, **20050 VENTURA BLVD**, **WOODLAND HILLS, CA 91364** — **EDR Hist Cleaner** — **1019937085** / **N/A**

Site 1 of 8 in cluster D

Relative: Lower

Actual: 831 ft.

EDR Hist Cleaner

Year:	Name:	Type:
2001	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2002	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2003	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs

BELL BOY CLEANERS (Continued) **1019937085**

2004	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2005	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2006	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2007	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2008	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2009	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2010	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2011	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2012	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2013	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs
2014	BELL BOY CLEANERS	Drycleaning Plants, Except Rugs

D14
NE
< 1/8
0.074 mi.
393 ft.

PRIME CLEANERS **EDR Hist Cleaner** **1020066944**
20051 VENTURA BLVD **N/A**
WOODLAND HILLS, CA 91364

Site 2 of 8 in cluster D

Relative:
Lower

Actual:
827 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1994	PRIME CLEANERS	Drycleaning Plants, Except Rugs
1995	PRIME CLEANERS	Drycleaning Plants, Except Rugs
1996	PRIME CLEANERS	Drycleaning Plants, Except Rugs
1997	PRIME CLEANERS	Drycleaning Plants, Except Rugs
1998	PRIME CLEANERS	Drycleaning Plants, Except Rugs
1999	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2000	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2001	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2002	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2003	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2004	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2005	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2006	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2007	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2008	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2010	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2011	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2012	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2013	PRIME CLEANERS	Drycleaning Plants, Except Rugs
2014	PRIME CLEANERS	Drycleaning Plants, Except Rugs

15
East
< 1/8
0.077 mi.
408 ft.

THOREAU CONTINUATION HIGH SCHOOL **RCRA-LQG** **1012175964**
5429 QUAKERTOWN AVE **CAR000197863**
WOODLAND HILLS, CA 91364

Relative:
Higher

Actual:
852 ft.

RCRA-LQG:

Date form received by agency:	01/12/2009
Facility name:	THOREAU CONTINUATION HIGH SCHOOL
Facility address:	5429 QUAKERTOWN AVE WOODLAND HILLS, CA 91364
EPA ID:	CAR000197863
Mailing address:	333 S BEAUDRY AVE 20TH FL LAUSD OEHS

THOREAU CONTINUATION HIGH SCHOOL (Continued) **1012175964**

	LOS ANGELES, CA 90017
Contact:	SOE AUNG
Contact address:	333 S BEAUDRY AVE 20TH FL LAUSD OEHS LOS ANGELES, CA 90017
Contact country:	US
Contact telephone:	213-241-3904
Contact email:	SOE.AUNG@LAUSD.NET
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 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	THOREAU CONTINUATION HIGH SCHOOL
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Operator
Owner/Op start date:	11/14/1989
Owner/Op end date:	Not reported

Owner/operator name:	LAUSD
Owner/operator address:	333 S BEAUDRY AVE LOS ANGELES, CA 90017
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	11/14/1989
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

THOREAU CONTINUATION HIGH SCHOOL (Continued) **1012175964**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

C16
ENE
< 1/8
0.091 mi.
480 ft.

BENS CARPET CARE **EDR Hist Cleaner** **1018536705**
5480 QUAKERTOWN AVE **N/A**
WOODLAND HILLS, CA 91364

Site 2 of 2 in cluster C

Relative:
Higher

Actual:
844 ft.

EDR Hist Cleaner

Year:	Name:	Type:
2002	BENS CARPET CARE	Carpet And Upholstery Cleaning
2003	BENS CARPET CARE	Carpet And Upholstery Cleaning
2004	BENS CARPET CARE	Carpet And Upholstery Cleaning
2007	BENS CARPET CARE	Carpet And Upholstery Cleaning
2008	BENS CARPET CARE	Carpet And Upholstery Cleaning

D17
NE
< 1/8
0.096 mi.
505 ft.

PRIME CLEANERS **RCRA NonGen / NLR** **1000473014**
20051 VENTURA BLVD **DRYCLEANERS** **CAD982438137**
WOODLAND HILLS, CA 91364

Site 3 of 8 in cluster D

Relative:
Lower

Actual:
825 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/08/1993
Facility name:	PRIME CLEANERS
Facility address:	20051 VENTURA BLVD WOODLAND HILLS, CA 91364
EPA ID:	CAD982438137
Mailing address:	VENTURA BLVD WOODLAND HILLS, CA 91364
Contact:	ENVIRONMENTAL MANAGER
Contact address:	20051 VENTURA BLVD WOODLAND HILLS, CA 91364
Contact country:	US
Contact telephone:	(818) 887-1811
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	GARY SOHL
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

PRIME CLEANERS (Continued) **1000473014**

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

DRYCLEANERS:
EPA Id: CAL000321685
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 07/02/2007
Facility Active: No
Inactive Date: 06/30/2012
Facility Addr2: Not reported
Owner Name: SUZA INC
Owner Address: 20051 VENTURA BLVD STE H
Owner Address 2: Not reported
Owner Telephone: 8188871811
Contact Name: SUREN OGANESYAN
Contact Address: 20051 VENTURA BLVD STE H
Contact Address 2: Not reported
Contact Telephone: 8188871811
Mailing Name: Not reported
Mailing Address 1: 20051 VENTURA BLVD STE H
Mailing Address 2: Not reported
Mailing City: WOODLAND HILLS
Mailing State: CA
Mailing Zip: 913642646
Owner Fax: 0000000000
Region Code: 3

PRIME CLEANERS (Continued) **1000473014**

EPA Id:	CAD982436610
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	11/14/1990
Facility Active:	No
Inactive Date:	06/30/2007
Facility Addr2:	Not reported
Owner Name:	KNARIK MKRTYTCHIAN OWNER/OPTR
Owner Address:	20051 VENTURA BLVD UNIT H
Owner Address 2:	Not reported
Owner Telephone:	8188871811
Contact Name:	KNARIK MKRTYTCHIAN
Contact Address:	20051 VENTURA BLVD STE H
Contact Address 2:	Not reported
Contact Telephone:	8188871811
Mailing Name:	Not reported
Mailing Address 1:	20051 VENTURA BLVD STE H
Mailing Address 2:	Not reported
Mailing City:	WOODLAND HILLS
Mailing State:	CA
Mailing Zip:	913640000
Owner Fax:	Not reported
Region Code:	3

D18 **PRIME CLEANERS** **RCRA-SQG** **1000472967**
NE **20051 VENTURA BLVD STE H** **FINDS** **CAD982436610**
< 1/8 **WOODLAND HILLS, CA 91364** **ECHO**
0.096 mi.
505 ft. **Site 4 of 8 in cluster D**

Relative:
Lower

Actual:
825 ft.

RCRA-SQG:

Date form received by agency:	03/28/1994
Facility name:	PRIME CLEANERS
Facility address:	20051 VENTURA BLVD STE H WOODLAND HILLS, CA 91364
EPA ID:	CAD982436610
Contact:	ALBERT YEPREMIAN
Contact address:	20051 VENTURA BLVD STE H WOODLAND HILLS, CA 91364
Contact country:	US
Contact telephone:	(818) 887-1811
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:	ALBERT MKRTYTCHIAN YEPREMIAN L
Owner/operator address:	20051 VENTURA BLVD STE H WOODLAND HILLS, CA 91364
Owner/operator country:	Not reported

PRIME CLEANERS (Continued) **1000472967**

Owner/operator telephone: (818) 887-1811
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

FINDS:

Registry ID: 110002811841

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

PRIME CLEANERS (Continued) **1000472967**

ECHO:

Envid:	1000472967
Registry ID:	110002811841
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002811841

D19 NE < 1/8 0.098 mi. 515 ft. **NIX AUTO SERVICES** **LUST** **S102434397**
20032 VENTURA BLVD **HIST CORTESE** **N/A**
WOODLAND HILLS, CA 91364

Site 5 of 8 in cluster D

Relative: Lower

Actual: 832 ft.

LUST:

Region:	STATE
Global Id:	T0603702378
Latitude:	34.1714272
Longitude:	-118.5692228
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/13/2009
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	CET
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913640516
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702378
Contact Type:	Regional Board Caseworker
Contact Name:	CHANDRA TYLER
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	cetyler@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603702378
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:	T0603702378
Status:	Completed - Case Closed
Status Date:	10/13/2009

Global Id:	T0603702378
Status:	Open - Case Begin Date

NIX AUTO SERVICES (Continued) **S102434397**

Status Date: 07/27/1994

Global Id: T0603702378
Status: Open - Remediation
Status Date: 02/13/2003

Global Id: T0603702378
Status: Open - Remediation
Status Date: 02/13/2008

Global Id: T0603702378
Status: Open - Site Assessment
Status Date: 02/01/1996

Global Id: T0603702378
Status: Open - Site Assessment
Status Date: 12/15/1997

Global Id: T0603702378
Status: Open - Site Assessment
Status Date: 03/17/2003

Global Id: T0603702378
Status: Open - Site Assessment
Status Date: 07/31/2006

Global Id: T0603702378
Status: Open - Verification Monitoring
Status Date: 07/27/1994

Regulatory Activities:
Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 01/16/2002
Action: Staff Letter

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 09/29/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0603702378
Action Type: Other
Date: 07/27/1994
Action: Leak Reported

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702378

NIX AUTO SERVICES (Continued) **S102434397**

Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 03/17/2003
Action: Staff Letter

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 02/13/2003
Action: Staff Letter

Global Id: T0603702378
Action Type: RESPONSE
Date: 07/15/2006
Action: Soil and Water Investigation Workplan

Global Id: T0603702378
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2009
Action: Remedial Progress Report

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2007
Action: Interim Remedial Action Plan

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2008

NIX AUTO SERVICES (Continued) **S102434397**

Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: REMEDIATION
Date: 05/21/2002
Action: Soil Vapor Extraction (SVE)

Global Id: T0603702378
Action Type: REMEDIATION
Date: 05/21/2002
Action: Soil Vapor Extraction (SVE)

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 11/13/2007
Action: Staff Letter

Global Id: T0603702378
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 10/15/2008
Action: Remedial Progress Report

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2008
Action: Remedial Progress Report

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 02/25/2008
Action: Waste Discharge Requirements

Global Id: T0603702378
Action Type: RESPONSE
Date: 10/24/2002
Action: Monitoring Report - Quarterly

NIX AUTO SERVICES (Continued) **S102434397**

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 11/04/2002
Action: Remedial Progress Report

Global Id: T0603702378
Action Type: RESPONSE
Date: 11/04/2002
Action: Soil and Water Investigation Report

Global Id: T0603702378
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 05/15/2002
Action: Soil and Water Investigation Workplan

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 07/03/2002
Action: Staff Letter

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 09/30/2003
Action: Interim Remedial Action Report

Global Id: T0603702378
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 09/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702378
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE

NIX AUTO SERVICES (Continued) **S102434397**

Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: Other
Date: 07/27/1994
Action: Leak Discovery

Global Id: T0603702378
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 11/03/2008
Action: Staff Letter

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 07/06/2009
Action: Staff Letter

Global Id: T0603702378
Action Type: ENFORCEMENT
Date: 10/13/2009
Action: Closure/No Further Action Letter

Global Id: T0603702378
Action Type: Other
Date: 07/27/1994
Action: Leak Stopped

Global Id: T0603702378
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702378
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

LUST REG 4:
Region: 4
Regional Board: 04

NIX AUTO SERVICES (Continued) **S102434397**

County:	Los Angeles
Facility Id:	913640516
Status:	Pollution Characterization
Substance:	Hydrocarbons
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Groundwater
Abatement Method Used at the Site:	Not reported
Global ID:	T0603702378
W Global ID:	W0606501096
Staff:	CEC
Local Agency:	19050
Cross Street:	PENFIELD AVE
Enforcement Type:	SEL
Date Leak Discovered:	7/27/1994
Date Leak First Reported:	7/27/1994
Date Leak Record Entered:	4/16/1996
Date Confirmation Began:	Not reported
Date Leak Stopped:	7/27/1994
Date Case Last Changed on Database:	9/16/2002
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:	HABONIM CAMP GILBOA
Well Name:	Not reported
Approx. Dist To Production Well (ft):	12964.795408281890799034106346
Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	2/1/1996
Preliminary Site Assessment Began:	12/15/1997
Pollution Characterization Began:	3/17/2003
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	2/13/2003
Post Remedial Action Monitoring Began:	7/27/1994
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	5/6/1998
Hist Max MTBE Conc in Groundwater:	3830
Hist Max MTBE Conc in Soil:	1.6
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	VENKAT D. REDDY
RP Address:	6030 OAKDALE AVE.
Program:	LUST
Lat/Long:	34.1714272 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	08/28/98 - FURTHER SITE ASSESSMENT RPT; 7/28/99 1ST & 2ND QTR GW MON RPT 1999; 3/14/00 2ST QTR GW RPT 2000; 12/26/00 WELL INSTALL. & QTRLY

NIX AUTO SERVICES (Continued) **S102434397**

GW MON RPT 4TH

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913640516

D20 **NIX FRANK ARCO SERVICE** **EDR Hist Auto** **1020332222**
NE **20032 VENTURA BLVD** **N/A**
< 1/8 **WOODLAND HLS, CA 91364**
0.098 mi.
515 ft. **Site 6 of 8 in cluster D**

Relative:
Lower

Actual:
832 ft.

EDR Hist Auto

Year:	Name:	Type:
1969	NIX FRANK RICHFIELD SERVICE	Gasoline Service Stations
1971	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1972	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1973	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1974	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1975	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1976	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1977	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1978	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1979	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1980	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1982	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1983	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1985	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1986	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1987	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1988	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1989	TAMPA GAS CO	Gasoline Service Stations
1989	NIX FRANK ARCO SERVICE	Gasoline Service Stations, NEC
1989	TAMPA GAS	Gasoline Service Stations
1990	TAMPA GAS CO	Gasoline Service Stations
1990	NIX FRANK ARCO SERVICE	Gasoline Service Stations, NEC
1991	TAMPA GAS CO	Gasoline Service Stations
1991	OPASO CO	Gasoline Service Stations
1991	NIX FRANK ARCO SERVICE	Gasoline Service Stations, NEC
1991	TAMPA GAS	Gasoline Service Stations
1992	TAMPA GAS	Gasoline Service Stations
1992	TAMPA GAS CO	Gasoline Service Stations
1992	NIX FRANK ARCO SERVICE	Gasoline Service Stations, NEC
1992	OPASO CO	Gasoline Service Stations
1993	NIX FRANK ARCO SERVICE	Gasoline Service Stations, NEC
1993	OPASO CO	Gasoline Service Stations
1993	TAMPA GAS	Gasoline Service Stations
1993	TAMPA GAS CO	Gasoline Service Stations
1994	OPASO CO	Gasoline Service Stations
1994	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1995	NIX FRANK ARCO SERVICE	Gasoline Service Stations
1995	OPASO CO	Gasoline Service Stations
2002	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2003	NIX FRANK ARCO SERVICE	Gasoline Service Stations

NIX FRANK ARCO SERVICE (Continued) **1020332222**

2004	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2005	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2006	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2007	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2008	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2009	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2010	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2011	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2012	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2013	NIX FRANK ARCO SERVICE	Gasoline Service Stations
2014	NIX FRANK ARCO SERVICE	Gasoline Service Stations

D21
NE
< 1/8
0.098 mi.
515 ft.

ARCO SERVICE STATION
20032 VENTURA BLVD
WOODLAND HILLS, CA 91364

SWEEPS UST **S101629385**
CA FID UST **N/A**

Site 7 of 8 in cluster D

Relative:
Lower

Actual:
832 ft.

SWEEPS UST:

Status:	Active
Comp Number:	3368
Number:	9
Board Of Equalization:	44-012962
Referral Date:	06-18-93
Action Date:	04-19-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-003368-000001
Tank Status:	A
Capacity:	4000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3368
Number:	9
Board Of Equalization:	44-012962
Referral Date:	06-18-93
Action Date:	04-19-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-003368-000002
Tank Status:	A
Capacity:	4000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3368
Number:	9
Board Of Equalization:	44-012962
Referral Date:	06-18-93

ARCO SERVICE STATION (Continued) **S101629385**

Action Date:	04-19-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-003368-000003
Tank Status:	A
Capacity:	4000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3368
Number:	9
Board Of Equalization:	44-012962
Referral Date:	06-18-93
Action Date:	04-19-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-003368-000004
Tank Status:	A
Capacity:	6000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3368
Number:	9
Board Of Equalization:	44-012962
Referral Date:	06-18-93
Action Date:	04-19-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-003368-000005
Tank Status:	A
Capacity:	250
Active Date:	04-20-88
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3368
Number:	9
Board Of Equalization:	44-012962
Referral Date:	06-18-93
Action Date:	04-19-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-003368-000006
Tank Status:	A
Capacity:	Not reported

ARCO SERVICE STATION (Continued) **S101629385**

Active Date:	04-20-88
Tank Use:	CHEMICAL
STG:	P
Content:	UNKNOWN
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19049489
Regulated By:	UTNKA
Regulated ID:	00061212
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8188846849
Mail To:	Not reported
Mailing Address:	6030 OAKDALE AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	WOODLAND HILLS 913640000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D22 **ARCO SERVICE STATION** **HIST UST** **U001568007**
NE **20032 VENTURA BLVD** **N/A**
< 1/8 **WOODLAND HILLS, CA 91364**
0.098 mi.
515 ft. **Site 8 of 8 in cluster D**

Relative:
Lower

Actual:
832 ft.

HIST UST:

File Number:	000268BC
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000268BC.pdf
Region:	STATE
Facility ID:	00000061212
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	CHARLES SHOOSTER
Telephone:	8188846849
Owner Name:	FRANK NIX
Owner Address:	6030 OAKDALE AVE.
Owner City,St,Zip:	WOODLAND HILLS, CA 91367
Total Tanks:	0006
Tank Num:	001
Container Num:	1
Year Installed:	1960
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	2
Year Installed:	1960

ARCO SERVICE STATION (Continued) **U001568007**

Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test

Tank Num:	003
Container Num:	3
Year Installed:	1960
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test

Tank Num:	004
Container Num:	4
Year Installed:	1972
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor, Pressure Test

Tank Num:	005
Container Num:	5
Year Installed:	1960
Tank Capacity:	00000250
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	6
Year Installed:	1960
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

E23 **CHEVRON SERVICE CENTER** **SWEEPS UST** **S101582910**
NNE **5550 WINNETKA AVE** **CA FID UST** **N/A**
< 1/8 **WOODLAND HILLS, CA 91364**
0.116 mi.
612 ft. **Site 1 of 5 in cluster E**

Relative:
Lower

Actual:
823 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	4341
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported

CHEVRON SERVICE CENTER (Continued) **S101582910**

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:	19001823
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8188844994
Mail To:	Not reported
Mailing Address:	5550 WINNETKA AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	WOODLAND HILLS 913640000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

E24 **MAC BHUPINDER SINGH** **EDR Hist Auto** **1020137752**
NNE **5550 WINNETKA AVE** **N/A**
< 1/8 **WOODLAND HLS, CA 91364**
0.116 mi.
612 ft. **Site 2 of 5 in cluster E**

Relative:
Lower

Actual:
823 ft.

EDR Hist Auto

Year:	Name:	Type:
1982	ORTEP INC	Gasoline Service Stations
1983	ORTEP INC	Gasoline Service Stations
1985	MAC CHEVRON	Gasoline Service Stations
1986	MAC BHUPINDER SINGH	Gasoline Service Stations
1987	MAC BHUPINDER SINGH	Gasoline Service Stations
1988	MAC BHUPINDER SINGH	Gasoline Service Stations

E25 **CHEVRON STATION 9 9460** **RCRA-SQG** **1000857411**
NNE **5550 WINNETKA** **FINDS** **CAD983668435**
< 1/8 **WOODLAND HILLS, CA 91364** **ECHO**
0.116 mi.
612 ft. **Site 3 of 5 in cluster E**

Relative:
Lower

Actual:
823 ft.

RCRA-SQG:

Date form received by agency:	05/17/1993
Facility name:	CHEVRON STATION 9 9460
Facility address:	5550 WINNETKA WOODLAND HILLS, CA 91364

CHEVRON STATION 9 9460 (Continued) **1000857411**

EPA ID:	CAD983668435
Mailing address:	P O BOX 2833 LA HABRA, CA 90632
Contact:	DESIREE CLOSS
Contact address:	P O BOX 2833 LA HABRA, CA 90632
Contact country:	US
Contact telephone:	(310) 694-7452
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:	CHEVRON USA PRODUCTS CO
Owner/operator address:	P O BOX 2833 LA HABRA, CA 90632
Owner/operator country:	Not reported
Owner/operator telephone:	(310) 694-7452
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
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

FINDS:

Registry ID: 110002899276

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

CHEVRON STATION 9 9460 (Continued) **1000857411**

corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000857411
Registry ID:	110002899276
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002899276

E26 **99460** **HIST UST** **U001568005**
NNE **5550 WINNETKA** **N/A**
< 1/8 **WOODLAND HILLS, CA 91364**
0.116 mi.
612 ft. **Site 4 of 5 in cluster E**

Relative:
Lower

Actual:
823 ft.

HIST UST:

File Number:	00026EE2
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026EE2.pdf
Region:	STATE
Facility ID:	00000063207
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MAC, B.S.
Telephone:	8188844994
Owner Name:	CHEVRON U.S.A. INC.
Owner Address:	575 MARKET
Owner City,St,Zip:	SAN FRANCISCO, CA 94105
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	1979
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1979
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1979
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor

99460 (Continued) **U001568005**

Tank Num:	004
Container Num:	4
Year Installed:	1979
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	5
Year Installed:	1979
Tank Capacity:	00001500
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

E27 **CHEVRON #9-9460 (FORMER)** **LUST** **1000730081**
NNE **5550 WINNETKA** **HIST CORTESE** **N/A**
< 1/8 **WOODLAND HILLS, CA 91364**
0.116 mi.
612 ft. **Site 5 of 5 in cluster E**

Relative:
Lower

Actual:
823 ft.

LUST:

Region:	STATE
Global Id:	T0603702363
Latitude:	34.1714692
Longitude:	-118.5709648
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/29/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	913640170
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702363
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603702363
Contact Type:	Regional Board Caseworker

CHEVRON #9-9460 (FORMER) (Continued) **1000730081**

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:	T0603702363
Status:	Completed - Case Closed
Status Date:	07/29/1996
Global Id:	T0603702363
Status:	Open - Case Begin Date
Status Date:	08/16/1988
Global Id:	T0603702363
Status:	Open - Site Assessment
Status Date:	09/16/1988

Regulatory Activities:

Global Id:	T0603702363
Action Type:	Other
Date:	08/16/1988
Action:	Leak Reported
Global Id:	T0603702363
Action Type:	Other
Date:	09/30/1988
Action:	Leak Discovery

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	913640170
Status:	Case Closed
Substance:	Gasoline
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Groundwater
Abatement Method Used at the Site:	Remove Free Product
Global ID:	T0603702363
W Global ID:	W0606501096
Staff:	UNK
Local Agency:	19000
Cross Street:	VENTURA
Enforcement Type:	Not reported
Date Leak Discovered:	9/30/1988
Date Leak First Reported:	8/16/1988
Date Leak Record Entered:	9/11/1988
Date Confirmation Began:	Not reported
Date Leak Stopped:	Not reported
Date Case Last Changed on Database:	10/7/1996
Date the Case was Closed:	7/29/1996

CHEVRON #9-9460 (FORMER) (Continued) **1000730081**

How Leak Discovered:	OM
How Leak Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Operator:	MAC, B.S.
Water System:	HABONIM CAMP GILBOA
Well Name:	Not reported
Approx. Dist To Production Well (ft):	12447.407156001323401626486897
Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	9/16/1988
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:	Yes
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	CHEVRON USA, INC
RP Address:	PO BOX 2833, LA HABRA, CA 90632-2833
Program:	LUST
Lat/Long:	34.1714692 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	SOIL TPH (MAX. 415 MG/KG)

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913640170

F28 **MISSION CARWASH** **UST** **U004266011**
NE **20021 W VENTURA BLVD** **N/A**
1/8-1/4 **WOODLAND HILLS, CA 91364**
0.129 mi.
680 ft. **Site 1 of 5 in cluster F**

Relative:
Lower

Actual:
829 ft.

UST:

Facility ID:	Not reported
Permitting Agency:	Los Angeles City Fire Department
Latitude:	34.17197
Longitude:	-118.5694

F29
NE
1/8-1/4
0.129 mi.
680 ft.

WOODLAND HILLS 76
20021 VENTURA BLVD.
WOODLAND HILLS, CA 91364

UST **U003938679**
N/A

Site 2 of 5 in cluster F

Relative:
Lower

Actual:
829 ft.

UST:

Facility ID:	23836
Permitting Agency:	LOS ANGELES, CITY OF
Latitude:	34.1734328
Longitude:	-118.5680869
Facility ID:	FA0025842
Permitting Agency:	Los Angeles City Fire Department
Latitude:	34.17197
Longitude:	-118.5694

F30
NE
1/8-1/4
0.129 mi.
680 ft.

WOODLAND HILLS NISSAN
20021 VENTURA BLVD
WOODLAND HILLS, CA 91365

RCRA-SQG **1000189846**
FINDS **CAD982041527**
ECHO

Site 3 of 5 in cluster F

Relative:
Lower

Actual:
829 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	WOODLAND HILLS NISSAN
Facility address:	20021 VENTURA BLVD WOODLAND HILLS, CA 91365
EPA ID:	CAD982041527
Mailing address:	PO BOX 4031 WOODLAND HILLS, CA 91365
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:

Owner/operator name:	FUDOR CORP
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

WOODLAND HILLS NISSAN (Continued) **1000189846**

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

Historical Generators:
Date form received by agency: 09/21/1987
Site name: WOODLAND HILLS NISSAN
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002785969

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.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000189846
Registry ID: 110002785969
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002785969

F31 NE 1/8-1/4 0.129 mi. 680 ft. | **UNKNOWN**
20021 VENTURA BLVD
WOODLAND HILLS, CA 91364

SWEEPS UST | **S101583367**
CA FID UST | **N/A**

Site 4 of 5 in cluster F

Relative: Lower

Actual: 829 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	7902
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:	19003537
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	20021 VENTURA BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	WOODLAND HILLS 913640000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

F32 NE 1/8-1/4 0.129 mi. 680 ft. | **WOODLAND HILLS AUTO (FORM**
20021 VENTURA
WOODLAND HILLS, CA 91364

LUST | **S102441358**
HIST CORTESE | **N/A**

Site 5 of 5 in cluster F

Relative: Lower

Actual: 829 ft.

LUST:

Region:	STATE
Global Id:	T0603702374
Latitude:	34.17194
Longitude:	-118.569436
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/25/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR

WOODLAND HILLS AUTO (FORM (Continued) **S102441358**

Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913640470
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702374
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

Global Id:	T0603702374
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:	T0603702374
Status:	Completed - Case Closed
Status Date:	07/25/1996

Global Id:	T0603702374
Status:	Open - Case Begin Date
Status Date:	04/28/1992

Global Id:	T0603702374
Status:	Open - Site Assessment
Status Date:	04/28/1992

Regulatory Activities:

Global Id:	T0603702374
Action Type:	Other
Date:	04/28/1992
Action:	Leak Reported

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	913640470
Status:	Case Closed
Substance:	Hydrocarbons

WOODLAND HILLS AUTO (FORM (Continued) **S102441358**

Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Groundwater
Abatement Method Used at the Site:	Not reported
Global ID:	T0603702374
W Global ID:	W0606501096
Staff:	UNK
Local Agency:	19050
Cross Street:	101 FWY
Enforcement Type:	Not reported
Date Leak Discovered:	Not reported
Date Leak First Reported:	4/28/1992
Date Leak Record Entered:	5/18/1992
Date Confirmation Began:	Not reported
Date Leak Stopped:	Not reported
Date Case Last Changed on Database:	7/17/1992
Date the Case was Closed:	7/25/1996
How Leak Discovered:	Not reported
How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	OLD CASE #052792-01
Water System:	HABONIM CAMP GILBOA
Well Name:	Not reported
Approx. Dist To Production Well (ft):	13017.354292056573851251042225
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	4/28/1992
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:	GEORGE AND KELLOW
RP Address:	120 BROADWAY, 003RD FLOOR, SANTA MONICA, 90401-2305
Program:	LUST
Lat/Long:	34.1717522 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA

WOODLAND HILLS AUTO (FORM (Continued) **S102441358**

Reg Id: 913640470

33
ENE
1/4-1/2
0.379 mi.
2002 ft.

Relative:
Lower

Actual:
841 ft.

CORBIN VILLAGE CLEANERS
19812 VENTURA BLVD
WOODLAND HILLS, CA 91364

RCRA-SQG **1000163425**
SLIC **CAD981624091**
FINDS
ECHO
EMI
HAZNET
WDS

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	CORBIN VILLAGE CLEANERS
Facility address:	19812 VENTURA BLVD WOODLAND HILLS, CA 91364
EPA ID:	CAD981624091
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:

Owner/operator name:	OH SOO KWON
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

CORBIN VILLAGE CLEANERS (Continued) **1000163425**

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

Historical Generators:
Date form received by agency: 01/21/1987
Site name: CORBIN VILLAGE CLEANERS
Classification: Large Quantity Generator

Violation Status: No violations found

SLIC:
Region: STATE
Facility Status: Open - Remediation
Status Date: 01/21/2009
Global Id: SL0603701032
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.172362
Longitude: -118.564978
Case Type: Cleanup Program Site
Case Worker: PC
Local Agency: Not reported
RB Case Number: 1127
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern: Not reported
Site History: Due to the historical use of dry cleaning facility, the site is contaminated with Tetrachloroethene (PCE). The Discharger is actively working with the Regional Board and implemented cleanup actions (soil vapor extraction system) and completed the site's conceptual site model for site closure in near future. Currently, an on-going soil vapor monitoring is underway.

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: Site Assessment
SLIC: 1127
Substance: PCE
Staff: Not reported

FINDS:

Registry ID: 110002727924

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

CORBIN VILLAGE CLEANERS (Continued) **1000163425**

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.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000163425
Registry ID:	110002727924
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002727924

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	44555
Air District Name:	SC
SIC Code:	7216
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:	2
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 and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	44555
Air District Name:	SC
SIC Code:	7216
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 and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	44555

CORBIN VILLAGE CLEANERS (Continued) **1000163425**

Air District Name:	SC
SIC Code:	7216
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 and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	44555
Air District Name:	SC
SIC Code:	7216
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 and Smllr Tons/Yr:	0

HAZNET:

envid:	1000163425
Year:	2002
GEPAID:	CAD981624091
Contact:	ANNIE KWON-OWNER
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	19812 VENTURA BLVD
Mailing City,St,Zip:	WOODLAND HILLS, CA 913640000
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	Transfer Station
Tons:	0.16
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000163425
Year:	2002
GEPAID:	CAD981624091
Contact:	ANNIE KWON-OWNER
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	19812 VENTURA BLVD

CORBIN VILLAGE CLEANERS (Continued) **1000163425**

Mailing City,St,Zip: WOODLAND HILLS, CA 913640000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Not reported
Tons: Not reported
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000163425
Year: 2002
GEPAID: CAD981624091
Contact: ANNIE KWON-OWNER
Telephone: --
Mailing Name: Not reported
Mailing Address: 19812 VENTURA BLVD
Mailing City,St,Zip: WOODLAND HILLS, CA 913640000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Not reported
Tons: Not reported
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000163425
Year: 2002
GEPAID: CAD981624091
Contact: ANNIE KWON-OWNER
Telephone: --
Mailing Name: Not reported
Mailing Address: 19812 VENTURA BLVD
Mailing City,St,Zip: WOODLAND HILLS, CA 913640000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Not reported
Tons: Not reported
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000163425
Year: 2002
GEPAID: CAD981624091
Contact: ANNIE KWON-OWNER
Telephone: --
Mailing Name: Not reported
Mailing Address: 19812 VENTURA BLVD
Mailing City,St,Zip: WOODLAND HILLS, CA 913640000
Gen County: Not reported

CORBIN VILLAGE CLEANERS (Continued) **1000163425**

TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	Recycler
Tons:	0.12
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA_HAZNET: record(s) in the EDR Site Report.

WDS:

Facility ID:	Los Angeles River 196800063
Facility Type:	Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAG914001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	Not reported
Facility Contact:	Robert Maikisch (National Env)
Agency Name:	PRIDE PROPERTIES LLC
Agency Address:	153 S. Burlingame Avenue
Agency City,St,Zip:	Los Angeles 90049
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	9999
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:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

G34 West 1/4-1/2 0.390 mi. 2059 ft. | **GASOLINE SERV. STATION FORMER**
20641 VENTURA BLVD
WOODLAND HILLS, CA 91364

Site 1 of 2 in cluster G

LUST | **S102430659**
N/A

Relative: Higher

Actual: 920 ft.

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	913640389
Status:	Case Closed
Substance:	Gasoline
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Groundwater
Abatement Method Used at the Site:	Excavate and Dispose
Global ID:	T0603702367
W Global ID:	W0606501096
Staff:	UNK
Local Agency:	19050
Cross Street:	Not reported
Enforcement Type:	Not reported
Date Leak Discovered:	Not reported
Date Leak First Reported:	6/30/1985
Date Leak Record Entered:	12/31/1986
Date Confirmation Began:	Not reported
Date Leak Stopped:	Not reported
Date Case Last Changed on Database:	8/22/1996
Date the Case was Closed:	7/25/1996
How Leak Discovered:	Not reported
How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	ALAMEDA MANAGEMENT CO
Water System:	HABONIM CAMP GILBOA
Well Name:	Not reported
Approx. Dist To Production Well (ft):	9643.896244536361837146502387
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	1/24/1996
Remediation Plan Submitted:	4/29/1996
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:	Yes
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	TESORO REFINING, MARKETING
RP Address:	320 S. W. STARK ST, PORTLAND OR 97204
Program:	LUST
Lat/Long:	34.1673583 / -1
Local Agency Staff:	PEJ

GASOLINE SERV. STATION FORMER (Continued) **S102430659**

Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	SAR UNDER REVIEW. ABANDONMENT REPORT 08/22/96

WELL

G35 West 1/4-1/2 0.390 mi. 2059 ft. **GASOLINE SERV. STATION FORMER** **LUST** **S100878319**
20641 VENTURA BLVD **HIST CORTESE** **N/A**
WOODLAND HILLS, CA 91364

Site 2 of 2 in cluster G

Relative: Higher

Actual: 920 ft.

LUST:

Region:	STATE
Global Id:	T0603702367
Latitude:	34.1669821
Longitude:	-118.5836991
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/25/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913640389
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702367
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

Global Id:	T0603702367
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:	T0603702367
Status:	Completed - Case Closed
Status Date:	07/25/1996

GASOLINE SERV. STATION FORMER (Continued) **S100878319**

Global Id: T0603702367
Status: Open - Case Begin Date
Status Date: 06/30/1985

Global Id: T0603702367
Status: Open - Remediation
Status Date: 04/29/1996

Global Id: T0603702367
Status: Open - Site Assessment
Status Date: 01/24/1996

Regulatory Activities:
Global Id: T0603702367
Action Type: Other
Date: 06/30/1985
Action: Leak Reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913640389

36
NNW
1/4-1/2
0.425 mi.
2243 ft.

OSO AVENUE ELEMENTARY SCHOOL
5724 OSO AVENUE
WOODLAND HILLS, CA 91367

ENVIROSTOR **S110375603**
SCH **N/A**

Relative:
Higher

Actual:
868 ft.

ENVIROSTOR:
Facility ID: 19820111
Status: Inactive - Withdrawn
Status Date: 11/14/2003
Site Code: 304417
Site Type: School Investigation
Site Type Detailed: School
Acres: 7.09
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 45
Senate: 27
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.1749
Longitude: -118.5771
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED

OSO AVENUE ELEMENTARY SCHOOL (Continued) **S110375603**

Potential Description: NONE SPECIFIED
Alias Name: LAUSD-OSO AVENUE ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: OSO AVENUE ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 304417
Alias Type: Project Code (Site Code)
Alias Name: 19820111
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: 12/09/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/14/2003
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: 19820111
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 7.09
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: 304417
Assembly: 45

OSO AVENUE ELEMENTARY SCHOOL (Continued) **S110375603**

Senate:	27
Special Program Status:	Not reported
Status:	Inactive - Withdrawn
Status Date:	11/14/2003
Restricted Use:	NO
Funding:	School District
Latitude:	34.1749
Longitude:	-118.5771
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	LAUSD-OSO AVENUE ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	OSO AVENUE ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	304417
Alias Type:	Project Code (Site Code)
Alias Name:	19820111
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:	12/09/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	11/14/2003
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

37 ESE 1/2-1 0.507 mi. 2677 ft. | **CHIME CHARTER ELEMENTARY SCHOOL EXPANSION**
19722 COLLIER STREET
WOODLAND HILLS, CA 91364 | **ENVIROSTOR SCH** | **S109821398 N/A**

Relative: Higher

Actual: 897 ft.

ENVIROSTOR:

Facility ID:	60001138
Status:	No Further Action
Status Date:	04/06/2010
Site Code:	304624
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	6.51
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Joe Hwong
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	50
Senate:	26
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.09569
Longitude:	-118.3345
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - LIVESTOCK, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic Chlordane DDD DDE DDT Endrin Toxaphene Aldrin Dieldrin Endosulfan Heptachlor Heptachlor epoxide HCH (alpha HCH (beta HCH (gamma) Lindane HCH-technical Mirex
Confirmed COC:	30001-NO 30004-NO 30207-NO 30309-NO 30313-NO 30314-NO 30315-NO 30316-NO 30400-NO 30023-NO 30261-NO 30043-NO 30308-NO 30006-NO 30007-NO 30008-NO 30010-NO
Potential Description:	SOIL
Alias Name:	304624
Alias Type:	Project Code (Site Code)
Alias Name:	60001138
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	09/15/2009
Comments:	DTSC approved the Preliminary Environmental Assessment Workplan for implementation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	02/10/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo

CHIME CHARTER ELEMENTARY SCHOOL EXPANSION (Continued) **S109821398**

Completed Date:	03/11/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	08/03/2009
Comments:	Sent signed Agreement (FedEx) 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:	60001138
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	6.51
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Joe Hwong
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304624
Assembly:	50
Senate:	26
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	04/06/2010
Restricted Use:	NO
Funding:	School District
Latitude:	34.09569
Longitude:	-118.3345
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - LIVESTOCK, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic, Chlordane, DDD, DDE, DDT, Endrin, Toxaphene, Aldrin, Dieldrin, Endosulfan, Heptachlor, Heptachlor epoxide, HCH (alpha, HCH (beta, HCH (gamma) Lindane, HCH-technical, Mirex
Confirmed COC:	30001-NO, 30004-NO, 30207-NO, 30309-NO, 30313-NO, 30314-NO, 30315-NO, 30316-NO, 30400-NO, 30023-NO, 30261-NO, 30043-NO, 30308-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO
Potential Description:	SOIL
Alias Name:	304624
Alias Type:	Project Code (Site Code)
Alias Name:	60001138
Alias Type:	Envirostor ID Number

CHIME CHARTER ELEMENTARY SCHOOL EXPANSION (Continued) **S109821398**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	09/15/2009
Comments:	DTSC approved the Preliminary Environmental Assessment Workplan for implementation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	02/10/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/11/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	08/03/2009
Comments:	Sent signed Agreement (FedEx) 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

38
NNW
1/2-1
0.792 mi.
4183 ft.

PIERCE COLLEGE NORTH OF MALL PHASE 1
6201 WINNETKA AVENUE
WOODLAND HILLS, CA 91371

ENVIROSTOR **S100851542**
LUST **N/A**
VCP
HIST CORTESE
NPDES

Relative:
Higher

Actual:
955 ft.

ENVIROSTOR:

Facility ID:	19820011
Status:	No Further Action
Status Date:	02/09/2017
Site Code:	301737
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	426
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA
Lead Agency:	SMBRP
Program Manager:	Manjul Bose
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	45

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

Senate:	27
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	34.18277
Longitude:	-118.5708
APN:	2149007902
Past Use:	SCHOOL - COLLEGE
Potential COC:	* CONTAMINATED SOIL Lead
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	LOS ANGELES PIERCE COLLEGE
Alias Type:	Alternate Name
Alias Name:	2149007902
Alias Type:	APN
Alias Name:	CAD982347007
Alias Type:	EPA Identification Number
Alias Name:	300570
Alias Type:	Project Code (Site Code)
Alias Name:	301737
Alias Type:	Project Code (Site Code)
Alias Name:	19820011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	09/25/1996
Comments:	A Preliminary Assessment was completed under U.S. EPA grant. No further assessment action is warranted for either U.S. EPA or DTSC.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/05/1995
Comments:	The Department received a non-emergency hazardous substance release report. Sampling activities at the site indicates that the soil is contaminated with lead. Due to evidence of contamination, the Department recommends a PEA. The Department sent a PEA notification letter to the RP.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	04/20/2016
Comments:	Report submitted as background information for scoping meeting and future PEA report. Project proponent is submitting a PEA report that is not covered under this cover but would include information from this report. There is no deliverable for this report.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/27/2017
Comments:	DTSC issued NFA for Pierce College - Chemistry Building #800

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement Termination Notification
Completed Date:	02/09/2017
Comments:	VCA Terminated as of February 9, 2017

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	03/24/2016
Comments:	Final Signed VCA

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

LUST:

Region:	STATE
Global Id:	T0603782909
Latitude:	34.182912
Longitude:	-118.570945
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/02/2008
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JW
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913670543A
LOC Case Number:	10911
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603782909
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

Global Id:	T0603782909
Contact Type:	Regional Board Caseworker
Contact Name:	JIMMIE WOO
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

City: LOS ANGELES
Email: jwoo@waterboards.ca.gov
Phone Number: 2135766600

Status History:
Global Id: T0603782909
Status: Completed - Case Closed
Status Date: 07/02/2008

Global Id: T0603782909
Status: Open - Case Begin Date
Status Date: 03/29/2005

Global Id: T0603782909
Status: Open - Site Assessment
Status Date: 03/29/2005

Global Id: T0603782909
Status: Open - Site Assessment
Status Date: 04/21/2005

Regulatory Activities:
Global Id: T0603782909
Action Type: Other
Date: 03/29/2005
Action: Leak Reported

Global Id: T0603782909
Action Type: ENFORCEMENT
Date: 09/13/2005
Action: Staff Letter

Global Id: T0603782909
Action Type: REMEDIATION
Date: 03/29/2005
Action: Not reported

Global Id: T0603782909
Action Type: ENFORCEMENT
Date: 03/25/2008
Action: Site Visit / Inspection / Sampling

Global Id: T0603782909
Action Type: ENFORCEMENT
Date: 07/02/2008
Action: Closure/No Further Action Letter

Global Id: T0603782909
Action Type: Other
Date: 03/29/2005
Action: Leak Discovery

Global Id: T0603782909
Action Type: RESPONSE
Date: 11/04/2005
Action: Other Report / Document

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

VCP:

Facility ID:	19820011
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	426
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, US EPA
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Manjul Bose
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Site Code:	301737
Assembly:	45
Senate:	27
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	02/09/2017
Restricted Use:	NO
Funding:	EPA Grant
Lat/Long:	34.18277 / -118.5708
APN:	2149007902
Past Use:	SCHOOL - COLLEGE
Potential COC:	10097, 30013
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	LOS ANGELES PIERCE COLLEGE
Alias Type:	Alternate Name
Alias Name:	2149007902
Alias Type:	APN
Alias Name:	CAD982347007
Alias Type:	EPA Identification Number
Alias Name:	300570
Alias Type:	Project Code (Site Code)
Alias Name:	301737
Alias Type:	Project Code (Site Code)
Alias Name:	19820011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	09/25/1996
Comments:	A Preliminary Assessment was completed under U.S. EPA grant. No further assessment action is warranted for either U.S. EPA or DTSC.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/05/1995
Comments:	The Department received a non-emergency hazardous substance release report. Sampling activities at the site indicates that the soil is contaminated with lead. Due to evidence of contamination, the Department recommends a PEA. The Department sent a PEA notification letter to the RP.

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/20/2016
Comments: Report submitted as background information for scoping meeting and future PEA report. Project proponent is submitting a PEA report that is not covered under this cover but would include information from this report. There is no deliverable for this report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/27/2017
Comments: DTSC issued NFA for Pierce College - Chemistry Building #800

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 02/09/2017
Comments: VCA Terminated as of February 9, 2017

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 03/24/2016
Comments: Final Signed VCA

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

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913670543

NPDES:
Npdes Number: CAS000002
Facility Status: Terminated
Agency Id: 0
Region: 4
Regulatory Measure Id: 442475
Order No: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 4 19C368224
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 11/12/2013

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	04/29/2014
Discharge Name:	Los Angeles Pierce College
Discharge Address:	6201 Winnetka Avenue
Discharge City:	Woodland Hills
Discharge State:	California
Discharge Zip:	91371
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
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

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

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:	410233
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C360197
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:	4/4/2013
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	1/10/2011
PROCESSED DATE:	1/12/2011
STATUS CODE NAME:	Terminated
STATUS DATE:	5/15/2013
PLACE SIZE:	3.3
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Mark Payton
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	818-262-9614
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	mpayton@bernards.com
OPERATOR NAME:	Pierce College
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
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Individual
DEVELOPER NAME:	Bernards
DEVELOPER ADDRESS:	555 First Street
DEVELOPER CITY:	San Fernando
DEVELOPER STATE:	California
DEVELOPER ZIP:	91340
DEVELOPER CONTACT NAME:	Mike Bernards
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

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:	Educational
CONSTYPE OTHER IND:	Y
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:	Not reported
CERTIFIER NAME:	Paul Nieman Nieman
CERTIFIER TITLE:	Dir. College Facilities
CERTIFICATION DATE:	10-JAN-11
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:	402870
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C357935
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:	4/4/2012
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	4/13/2010
PROCESSED DATE:	4/20/2010
STATUS CODE NAME:	Terminated
STATUS DATE:	6/19/2012
PLACE SIZE:	3
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Joe Martinez
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	714-721-1138
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	United Contractors Company Inc

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

OPERATOR ADDRESS:	2050 South Santa Cruz Street
OPERATOR CITY:	Anaheim
OPERATOR STATE:	California
OPERATOR ZIP:	92805
OPERATOR CONTACT NAME:	Michael Lee
OPERATOR CONTACT TITLE:	Project Manager
OPERATOR CONTACT PHONE:	818-710-8343
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	United Contractors Co Inc
DEVELOPER ADDRESS:	2050 S Santa Cruz St Ste 2300
DEVELOPER CITY:	Anaheim
DEVELOPER STATE:	California
DEVELOPER ZIP:	92805
DEVELOPER CONTACT NAME:	Mazyar A Marjani
DEVELOPER CONTACT TITLE:	Project Manager
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:	Educational Facility
CONSTYPE OTHER IND:	Y
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:	Mazyar Marjani
CERTIFIER TITLE:	Director Of College Facilites
CERTIFICATION DATE:	22-JUN-10
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:	461388
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C373906
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	9/1/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	8/25/2015
PROCESSED DATE:	9/2/2015
STATUS CODE NAME:	Terminated
STATUS DATE:	11/14/2016
PLACE SIZE:	8.25
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Paul Nieman
FACILITY CONTACT TITLE:	Director of College Facilities
FACILITY CONTACT PHONE:	818-710-4121
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	niemanpm@piercecollege.edu
OPERATOR NAME:	Los Angeles Pierce College
OPERATOR ADDRESS:	6201 Winnetka Avenue
OPERATOR CITY:	Woodland Hills
OPERATOR STATE:	California
OPERATOR ZIP:	91371
OPERATOR CONTACT NAME:	Paul Nieman
OPERATOR CONTACT TITLE:	Director of College Facilities
OPERATOR CONTACT PHONE:	818-710-4121
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	niemanpm@piercecollege.edu
OPERATOR TYPE:	College/University
DEVELOPER NAME:	Balfour Beatty Construction
DEVELOPER ADDRESS:	10620 Treena Street
DEVELOPER CITY:	San Diego
DEVELOPER STATE:	California
DEVELOPER ZIP:	92131
DEVELOPER CONTACT NAME:	Timothy Klein
DEVELOPER CONTACT TITLE:	Environmental Manager
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	858-997-4939
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N
CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	N
CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	N
CONSTYPE OTHER DESRIPTION:	Communty College
CONSTYPE OTHER IND:	Y
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	N
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	N
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Los Angeles River

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

CERTIFIER NAME:	Paul Nieman
CERTIFIER TITLE:	DOCF
CERTIFICATION DATE:	25-AUG-15
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:	442475
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C368224
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:	4/29/2014
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	11/7/2013
PROCESSED DATE:	11/12/2013
STATUS CODE NAME:	Terminated
STATUS DATE:	5/20/2014
PLACE SIZE:	7.7
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Paul Neiman
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	818-710-4121
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	NiemanP@piercecollege.edu
OPERATOR NAME:	Los Angeles Pierce College
OPERATOR ADDRESS:	6201 Winnetka Avenue
OPERATOR CITY:	Woodland Hills
OPERATOR STATE:	California
OPERATOR ZIP:	91371
OPERATOR CONTACT NAME:	Paul Neiman
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	818-710-4121
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	NiemanP@piercecollege.edu
OPERATOR TYPE:	College/University
DEVELOPER NAME:	GMZ Engineering
DEVELOPER ADDRESS:	5739 Kanan Road
DEVELOPER CITY:	Agoura Hills
DEVELOPER STATE:	California
DEVELOPER ZIP:	91301
DEVELOPER CONTACT NAME:	Ramin Farnaghi
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N
CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	N
CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	N
CONSTYPE OTHER DESRIPTION:	Site Development
CONSTYPE OTHER IND:	Y
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	N
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	N
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Los Angeles River
CERTIFIER NAME:	Ramin Farnaghi
CERTIFIER TITLE:	GMZ Engineering
CERTIFICATION DATE:	07-NOV-13
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	452922
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C372340
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/09/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/05/2015
Discharge Name:	Los Angeles Pierce College
Discharge Address:	6201 Winnetka Avenue
Discharge City:	Woodland Hills
Discharge State:	California
Discharge Zip:	91371
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

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

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
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:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	461388
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C373906
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/02/2015

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Los Angeles Pierce College
Discharge Address:	6201 Winnetka Avenue
Discharge City:	Woodland Hills
Discharge State:	California
Discharge Zip:	91371
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
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

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

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:	410577
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C360812
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:	8/27/2012
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	4/12/2011
PROCESSED DATE:	4/15/2011
STATUS CODE NAME:	Terminated
STATUS DATE:	3/5/2013
PLACE SIZE:	400
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Ghazi Mubarak
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	949-892-8492
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	gmubarak@ftrintlinc.com
OPERATOR NAME:	Pierce College
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
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Individual
DEVELOPER NAME:	FTR Internatinal Inc
DEVELOPER ADDRESS:	8707 Research Dr
DEVELOPER CITY:	Irvine
DEVELOPER STATE:	California
DEVELOPER ZIP:	92618
DEVELOPER CONTACT NAME:	Ghazi Mubarak
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

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:	Y
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:	Not reported
CERTIFIER NAME:	Paul Nieman
CERTIFIER TITLE:	Director of College Facilities
CERTIFICATION DATE:	12-APR-11
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	428500
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C364151
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/23/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/17/2014
Discharge Name:	Pierce College
Discharge Address:	6201 Winnetka Ave
Discharge City:	Woodland Hills
Discharge State:	California
Discharge Zip:	91371
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

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

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
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:	408040
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C359700
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	7/13/2012
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	10/6/2010
PROCESSED DATE:	10/19/2010
STATUS CODE NAME:	Terminated
STATUS DATE:	3/5/2013
PLACE SIZE:	400
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Ghazi Mubarak
FACILITY CONTACT TITLE:	Project Manager
FACILITY CONTACT PHONE:	949-892-8492
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	gmubarak@ftrintlinc.com
OPERATOR NAME:	Pierce College
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
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Individual
DEVELOPER NAME:	FTR International
DEVELOPER ADDRESS:	8707 Research Dr
DEVELOPER CITY:	Irvine
DEVELOPER STATE:	California
DEVELOPER ZIP:	92618
DEVELOPER CONTACT NAME:	Ghazi Mubarak
DEVELOPER CONTACT TITLE:	Project Manager
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	714-389-5656
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:	Y
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:	Not reported

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

CERTIFIER NAME:	Paul Nieman Nieman
CERTIFIER TITLE:	Director Of College Facilities
CERTIFICATION DATE:	06-OCT-10
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:	428500
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C364151
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:	10/17/2014
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	6/25/2012
PROCESSED DATE:	7/23/2012
STATUS CODE NAME:	Terminated
STATUS DATE:	10/22/2014
PLACE SIZE:	1.5
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Paul Nieman
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	818-710-4121
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	niemanp@piercecollege.edu
OPERATOR NAME:	Pierce College
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
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Individual
DEVELOPER NAME:	Taisei Construction Corporation
DEVELOPER ADDRESS:	6261 Katella Avenue
DEVELOPER CITY:	Cypress
DEVELOPER STATE:	California
DEVELOPER ZIP:	90630
DEVELOPER CONTACT NAME:	John McClelland
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

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:	Y
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:	Not reported
CERTIFIER NAME:	Paul Nieman
CERTIFIER TITLE:	Director of College Facilities
CERTIFICATION DATE:	25-JUN-12
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:	452922
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C372340
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:	10/5/2015
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	3/2/2015
PROCESSED DATE:	3/9/2015
STATUS CODE NAME:	Terminated
STATUS DATE:	12/16/2015
PLACE SIZE:	1.5
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Paul Nieman
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	818-710-4121
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	niemanpm@piercecollege.edu
OPERATOR NAME:	Los Angeles Pierce College

PIERCE COLLEGE NORTH OF MALL PHASE 1 (Continued) **S100851542**

OPERATOR ADDRESS:	6201 Winnetka Avenue
OPERATOR CITY:	Woodland Hills
OPERATOR STATE:	California
OPERATOR ZIP:	91371
OPERATOR CONTACT NAME:	Paul Nieman
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	818-710-4121
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	niemanpm@piercecollege.edu
OPERATOR TYPE:	College/University
DEVELOPER NAME:	Balfour Beatty Construction
DEVELOPER ADDRESS:	2 Park Plaza
DEVELOPER CITY:	Irvine
DEVELOPER STATE:	California
DEVELOPER ZIP:	92614
DEVELOPER CONTACT NAME:	Bob Gresl
DEVELOPER CONTACT TITLE:	Superintendent
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N
CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	N
CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	N
CONSTYPE OTHER DESRIPTION:	stadium
CONSTYPE OTHER IND:	Y
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	N
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	N
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	San Pedro Bay
CERTIFIER NAME:	Paul Nieman
CERTIFIER TITLE:	DOCF
CERTIFICATION DATE:	02-MAR-15
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

39
West
1/2-1
0.814 mi.
4298 ft.

KAISER PERMANENTE MEDICAL CTR
5601 DE SOTO AVE
WOODLAND HILLS, CA 91365

RCRA-SQG **1000380329**
ENVIROSTOR **CAD982501488**
FINDS
ECHO
EMI

Relative:
Higher

Actual:
873 ft.

RCRA-SQG:

Date form received by agency:	01/04/1990
Facility name:	KAISER PERMANENTE MEDICAL CTR
Facility address:	5601 DE SOTO AVE WOODLAND HILLS, CA 91365
EPA ID:	CAD982501488
Contact:	ENVIRONMENTAL MANAGER

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

Contact address: 5601 DE SOTO AVE
WOODLAND HILLS, CA 91365
Contact country: US
Contact telephone: (818) 719-2664
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: KAISER FOUNDATION HOSP
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: 71003093
Status: Refer: Other Agency
Status Date: Not reported

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

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: 45
Senate: 27
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.17099
Longitude: -118.5897
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD982501488
Alias Type: EPA Identification Number
Alias Name: 110009546884
Alias Type: EPA (FRS #)
Alias Name: 71003093
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

FINDS:

Registry ID: 110009546884

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.

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

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.

HAZARDOUS AIR POLLUTANT MAJOR

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000380329
Registry ID:	110009546884
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009546884

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	3
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8011
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:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	4
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	5
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	7
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	1

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	7
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	6.6761875
Reactive Organic Gases Tons/Yr:	2.67
Carbon Monoxide Emissions Tons/Yr:	0.625
NOX - Oxides of Nitrogen Tons/Yr:	1.353
SOX - Oxides of Sulphur Tons/Yr:	0.01568
Particulate Matter Tons/Yr:	0.0991
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.1

Year:	2005
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	.24129
Reactive Organic Gases Tons/Yr:	.122775472
Carbon Monoxide Emissions Tons/Yr:	2.9018
NOX - Oxides of Nitrogen Tons/Yr:	4.016
SOX - Oxides of Sulphur Tons/Yr:	.02868
Particulate Matter Tons/Yr:	.2991
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.297483

Year:	2006
County Code:	19

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	.6691676260159145235
Reactive Organic Gases Tons/Yr:	.229
Carbon Monoxide Emissions Tons/Yr:	3.534
NOX - Oxides of Nitrogen Tons/Yr:	1.293
SOX - Oxides of Sulphur Tons/Yr:	.023
Particulate Matter Tons/Yr:	.457
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.454826

Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	.6629712802911969867
Reactive Organic Gases Tons/Yr:	.229
Carbon Monoxide Emissions Tons/Yr:	3.534
NOX - Oxides of Nitrogen Tons/Yr:	1.293
SOX - Oxides of Sulphur Tons/Yr:	.023
Particulate Matter Tons/Yr:	.457
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.45512

Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	.5345408844306556570
Reactive Organic Gases Tons/Yr:	.2057068
Carbon Monoxide Emissions Tons/Yr:	3.17
NOX - Oxides of Nitrogen Tons/Yr:	1.53938
SOX - Oxides of Sulphur Tons/Yr:	.0269775
Particulate Matter Tons/Yr:	.3488125
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.347771875

Year:	2009
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.53140402001023002
Reactive Organic Gases Tons/Yr:	0.18665100000000001
Carbon Monoxide Emissions Tons/Yr:	3.02
NOX - Oxides of Nitrogen Tons/Yr:	1.32287
SOX - Oxides of Sulphur Tons/Yr:	2.4559999999999998E-2
Particulate Matter Tons/Yr:	0.36749999999999999
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.36604500000000001

Year:	2010
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	0.73787090239016595
Reactive Organic Gases Tons/Yr:	0.25135000000000002
Carbon Monoxide Emissions Tons/Yr:	3.2256800000000001
NOX - Oxides of Nitrogen Tons/Yr:	1.72502
SOX - Oxides of Sulphur Tons/Yr:	0.0315
Particulate Matter Tons/Yr:	0.55569999999999997
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.55268154000000003

Year:	2011
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	0.83161529427
Reactive Organic Gases Tons/Yr:	0.25576
Carbon Monoxide Emissions Tons/Yr:	2.91549
NOX - Oxides of Nitrogen Tons/Yr:	1.66548
SOX - Oxides of Sulphur Tons/Yr:	0.03197
Particulate Matter Tons/Yr:	0.65434
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.65086898

Year:	2012
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	0.82931408724
Reactive Organic Gases Tons/Yr:	0.28005
Carbon Monoxide Emissions Tons/Yr:	2.89471
NOX - Oxides of Nitrogen Tons/Yr:	2.08088
SOX - Oxides of Sulphur Tons/Yr:	0.02495

KAISER PERMANENTE MEDICAL CTR (Continued) **1000380329**

Particulate Matter Tons/Yr:	0.63983
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.6356474

Year:	2013
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	0.69911292805
Reactive Organic Gases Tons/Yr:	0.26028
Carbon Monoxide Emissions Tons/Yr:	2.931
NOX - Oxides of Nitrogen Tons/Yr:	1.2298
SOX - Oxides of Sulphur Tons/Yr:	0.02347
Particulate Matter Tons/Yr:	0.50022
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.49728136

Year:	2015
County Code:	19
Air Basin:	SC
Facility ID:	49572
Air District Name:	SC
SIC Code:	8062
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:	0.93808894494
Reactive Organic Gases Tons/Yr:	0.4666738
Carbon Monoxide Emissions Tons/Yr:	2.84813838
NOX - Oxides of Nitrogen Tons/Yr:	1.13314325
SOX - Oxides of Sulphur Tons/Yr:	0.02402851
Particulate Matter Tons/Yr:	0.557971
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.554931896

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
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: 04/05/2017	Source: EPA
Date Data Arrived at EDR: 04/21/2017	Telephone: N/A
Date Made Active in Reports: 05/12/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/16/2017
	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: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 07/07/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 10/16/2017
	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: 02/07/2017	Source: EPA
Date Data Arrived at EDR: 04/19/2017	Telephone: 800-424-9346
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 07/21/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/30/2017
	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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 10/30/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
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: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
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: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/12/2017
Date Data Arrived at EDR: 06/14/2017
Date Made Active in Reports: 08/22/2017
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

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 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 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 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 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

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/12/2017
Date Data Arrived at EDR: 06/14/2017
Date Made Active in Reports: 08/23/2017
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/12/2017
Date Data Arrived at EDR: 06/14/2017
Date Made Active in Reports: 08/23/2017
Number of Days to Update: 70

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
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: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

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: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

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: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

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: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
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

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: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Quarterly

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: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
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: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2017
Next Scheduled EDR Contact: 10/02/2017
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: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 05/31/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 76

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
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: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
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: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
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

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/29/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

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: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 07/31/2017
Date Data Arrived at EDR: 08/01/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 14

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
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: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/14/2017
Next Scheduled EDR Contact: 10/23/2017
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: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 06/02/2017
Date Data Arrived at EDR: 06/06/2017
Date Made Active in Reports: 08/25/2017
Number of Days to Update: 80

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 12/11/2017
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: 06/02/2017
Date Data Arrived at EDR: 06/06/2017
Date Made Active in Reports: 08/22/2017
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
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: 07/26/2017
Next Scheduled EDR Contact: 11/08/2017
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: 06/05/2017
Date Data Arrived at EDR: 06/06/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 65

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
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: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/26/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/12/2017
Date Data Arrived at EDR: 06/14/2017
Date Made Active in Reports: 08/18/2017
Number of Days to Update: 65

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/12/2017
Date Data Arrived at EDR: 06/14/2017
Date Made Active in Reports: 08/22/2017
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 08/25/2017
Next Scheduled EDR Contact: 12/04/2017
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: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
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: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
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: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 11/27/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
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: 08/24/2017
Next Scheduled EDR Contact: 11/20/2017
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: 06/21/2017
Next Scheduled EDR Contact: 10/02/2017
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: 08/23/2017
Next Scheduled EDR Contact: 12/04/2017
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: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
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: 06/09/2017
Next Scheduled EDR Contact: 09/18/2017
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: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
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: 08/08/2017
Next Scheduled EDR Contact: 11/20/2017
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: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/28/2017
Next Scheduled EDR Contact: 10/23/2017
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: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
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: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
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: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 08/01/2017
Next Scheduled EDR Contact: 11/20/2017
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: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
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: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
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: 07/28/2017
Next Scheduled EDR Contact: 11/08/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/16/2017
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: 08/01/2017
Next Scheduled EDR Contact: 11/13/2017
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: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
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: 08/25/2017
Next Scheduled EDR Contact: 12/04/2017
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: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2017
Next Scheduled EDR Contact: 10/23/2017
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: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
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: 08/22/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
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: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 08/11/2017
Next Scheduled EDR Contact: 10/09/2017
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: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

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: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

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: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 12/04/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
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: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/31/2015
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 147

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/23/2017
Next Scheduled EDR Contact: 10/02/2017
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: 05/01/2017
Date Data Arrived at EDR: 05/03/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 104

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 06/05/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 67

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 10/30/2017
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: 05/16/2017
Date Data Arrived at EDR: 05/19/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 88

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
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: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/22/2017
Date Data Arrived at EDR: 05/24/2017
Date Made Active in Reports: 08/18/2017
Number of Days to Update: 86

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/22/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

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: 05/22/2017
Date Data Arrived at EDR: 05/24/2017
Date Made Active in Reports: 08/18/2017
Number of Days to Update: 86

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/22/2017
Next Scheduled EDR Contact: 12/04/2017
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: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
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: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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: 05/25/2017
Date Data Arrived at EDR: 06/06/2017
Date Made Active in Reports: 08/23/2017
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/17/2017
Next Scheduled EDR Contact: 11/27/2017
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: 06/05/2017
Date Data Arrived at EDR: 06/07/2017
Date Made Active in Reports: 08/25/2017
Number of Days to Update: 79

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
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: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
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: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
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: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
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: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

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: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2017
Date Data Arrived at EDR: 07/11/2017
Date Made Active in Reports: 08/23/2017
Number of Days to Update: 43

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 06/20/2017
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 49

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 08/21/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 04/25/2017
Date Data Arrived at EDR: 04/27/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 104

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
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: 05/26/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 58

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 05/02/2017
Date Data Arrived at EDR: 05/04/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 92

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 06/19/2017
Date Data Arrived at EDR: 06/20/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 50

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/31/2017
Next Scheduled EDR Contact: 11/13/2017
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: 06/30/2017
Date Data Arrived at EDR: 07/05/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 30

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 101

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/08/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 56

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/09/2017
Date Data Arrived at EDR: 05/11/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 90

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 101

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
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: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/18/2017
Number of Days to Update: 115

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/18/2017
Next Scheduled EDR Contact: 10/30/2017
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: 07/13/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 10/30/2017
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: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
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: 06/01/2017
Date Data Arrived at EDR: 06/02/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 63

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/21/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/08/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/22/2017
Date Data Arrived at EDR: 06/23/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 47

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/21/2017
Next Scheduled EDR Contact: 12/04/2017
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: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 12/11/2017
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: 05/31/2017
Date Data Arrived at EDR: 06/01/2017
Date Made Active in Reports: 08/25/2017
Number of Days to Update: 85

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 05/08/2017
Date Data Arrived at EDR: 05/09/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 92

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/03/2017
Date Data Arrived at EDR: 05/11/2017
Date Made Active in Reports: 08/18/2017
Number of Days to Update: 99

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/09/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/02/2017
Date Data Arrived at EDR: 06/06/2017
Date Made Active in Reports: 08/22/2017
Number of Days to Update: 77

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 06/19/2017
Date Data Arrived at EDR: 07/05/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 35

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/19/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/19/2017
Next Scheduled EDR Contact: 10/02/2017
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: 02/06/2017
Date Data Arrived at EDR: 04/04/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 127

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2017
Next Scheduled EDR Contact: 10/16/2017
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: 05/03/2017
Date Data Arrived at EDR: 07/06/2017
Date Made Active in Reports: 08/22/2017
Number of Days to Update: 47

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

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: 05/30/2017
Date Data Arrived at EDR: 06/01/2017
Date Made Active in Reports: 08/25/2017
Number of Days to Update: 85

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
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: 06/05/2017
Date Data Arrived at EDR: 06/07/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 69

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
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: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
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: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
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: 08/07/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/03/2017
Date Data Arrived at EDR: 05/08/2017
Date Made Active in Reports: 08/25/2017
Number of Days to Update: 109

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/21/2017
Next Scheduled EDR Contact: 11/20/2017
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: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/05/2017
Date Data Arrived at EDR: 06/16/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 54

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
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: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/22/2017
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
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: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/07/2017
Next Scheduled EDR Contact: 12/04/2017
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: 08/24/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/04/2017
Date Data Arrived at EDR: 05/08/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 80

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/21/2017
Next Scheduled EDR Contact: 12/04/2017
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: 06/15/2017
Date Data Arrived at EDR: 06/20/2017
Date Made Active in Reports: 08/22/2017
Number of Days to Update: 63

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 08/29/2017
Number of Days to Update: 69

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 06/27/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 43

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
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: 07/05/2017
Date Data Arrived at EDR: 07/06/2017
Date Made Active in Reports: 08/22/2017
Number of Days to Update: 47

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/10/2017
Date Data Arrived at EDR: 05/16/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 85

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/02/2017
Date Data Arrived at EDR: 06/06/2017
Date Made Active in Reports: 08/25/2017
Number of Days to Update: 80

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List
Cupa facilities

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 05/08/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 93

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 04/27/2017
Date Data Arrived at EDR: 04/27/2017
Date Made Active in Reports: 08/10/2017
Number of Days to Update: 105

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 11/08/2017
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: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
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: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
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: 08/10/2017
Next Scheduled EDR Contact: 11/27/2017
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: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
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: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/29/2017
Date Data Arrived at EDR: 07/05/2017
Date Made Active in Reports: 08/25/2017
Number of Days to Update: 51

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/27/2017
Next Scheduled EDR Contact: 11/13/2017
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: 08/18/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 107

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/10/2017
Next Scheduled EDR Contact: 10/23/2017
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: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/03/2017
Next Scheduled EDR Contact: 11/13/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
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: 08/21/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/12/2017
Next Scheduled EDR Contact: 09/25/2017
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
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.

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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

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

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

TAFT HIGH SCHOOL
5461 WINNETKA AVE
WOODLAND HILLS, CA 91364

TARGET PROPERTY COORDINATES

Latitude (North):	34.168525 - 34˚ 10' 6.69''
Longitude (West):	118.57336 - 118˚ 34' 24.10''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	354981.1
UTM Y (Meters):	3781765.5
Elevation:	842 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630737 CANOGA PARK, 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).

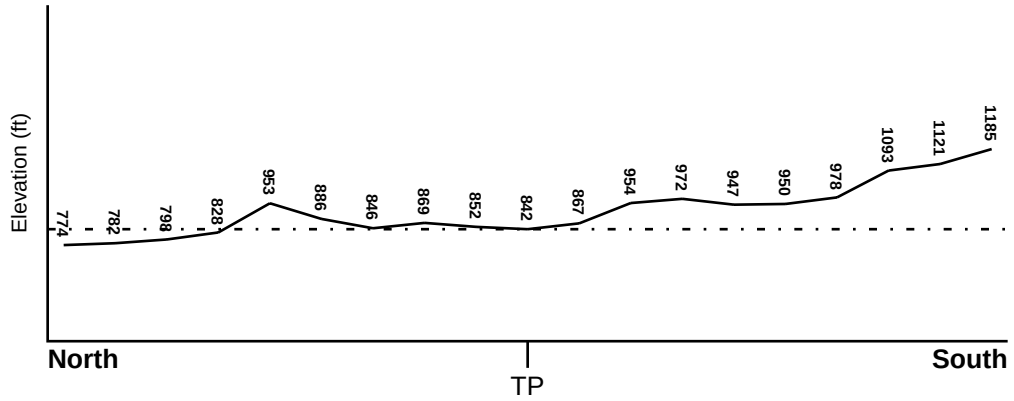
TOPOGRAPHIC INFORMATION

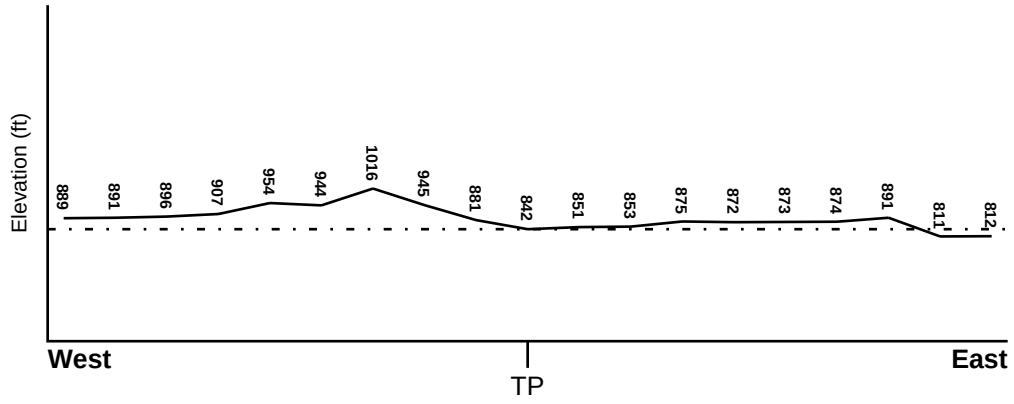
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 842 ft.

0 1/2 1 Miles

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

Flood Plain Panel at Target Property	FEMA Source Type
06037C1290F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1295F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANOGA PARK	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
Status:	Not found

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
Not Reported		

* ©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

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

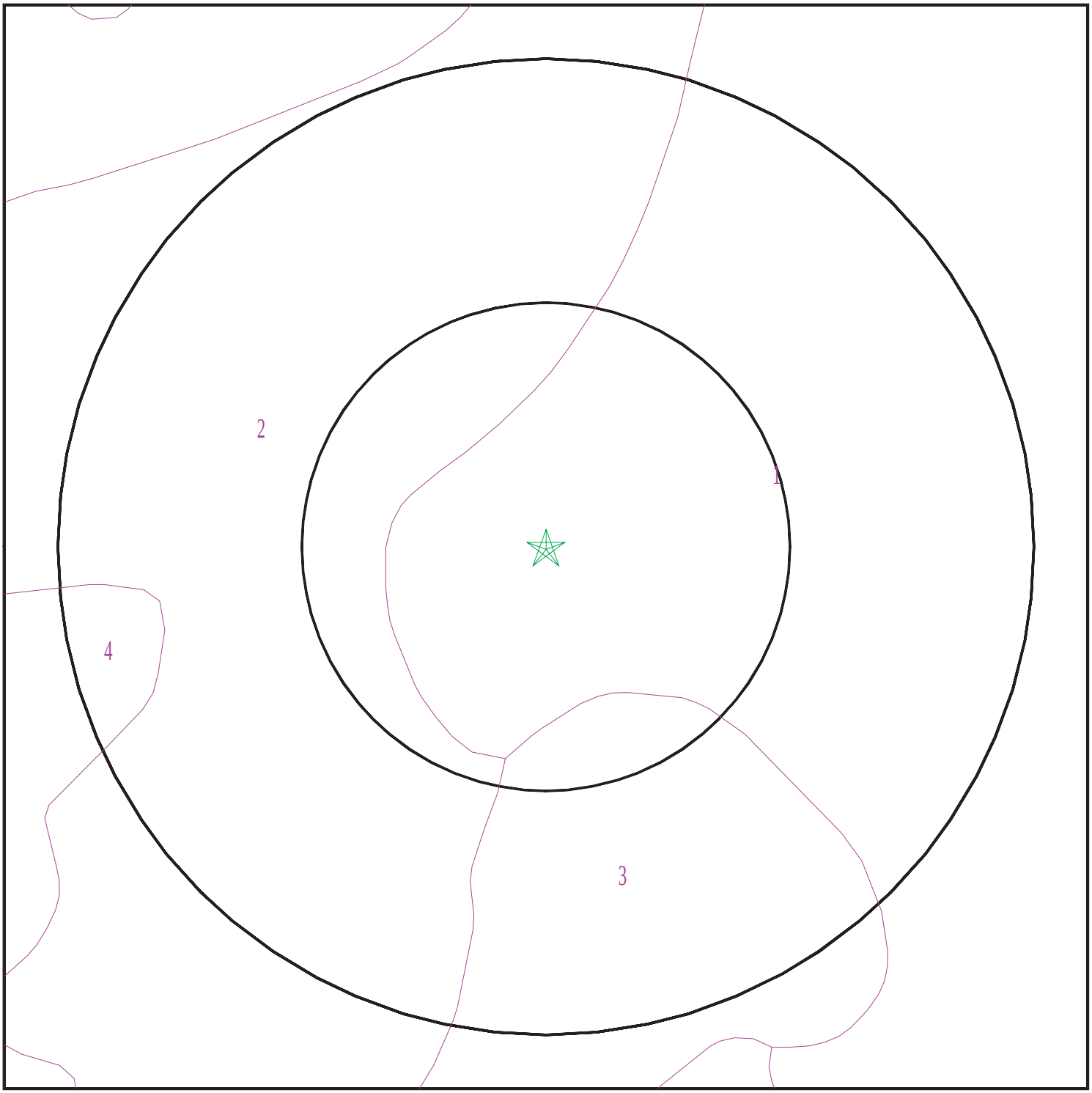
Era:	Cenozoic
System:	Tertiary
Series:	Miocene
Code:	Tm *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified 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).

SSURGO SOIL MAP - 5037330.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Taft High School	CLIENT:	PlaceWorks
ADDRESS:	5461 Winnetka Ave Woodland Hills CA 91364	CONTACT:	Robyn Chaconas
		INQUIRY #:	5037330.2s
LAT/LONG:	34.168525 / 118.57336	DATE:	August 30, 2017 9:12 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Mocho

Soil Surface Texture: loam

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	16 inches	75 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Xerorthents

Soil Surface Texture: variable

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 89 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:
2	59 inches	64 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: Xerorthents

Soil Surface Texture: variable

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 89 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:
2	59 inches	64 inches	unweathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: Balcom

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	37 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	37 inches	40 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

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 0.001 miles
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

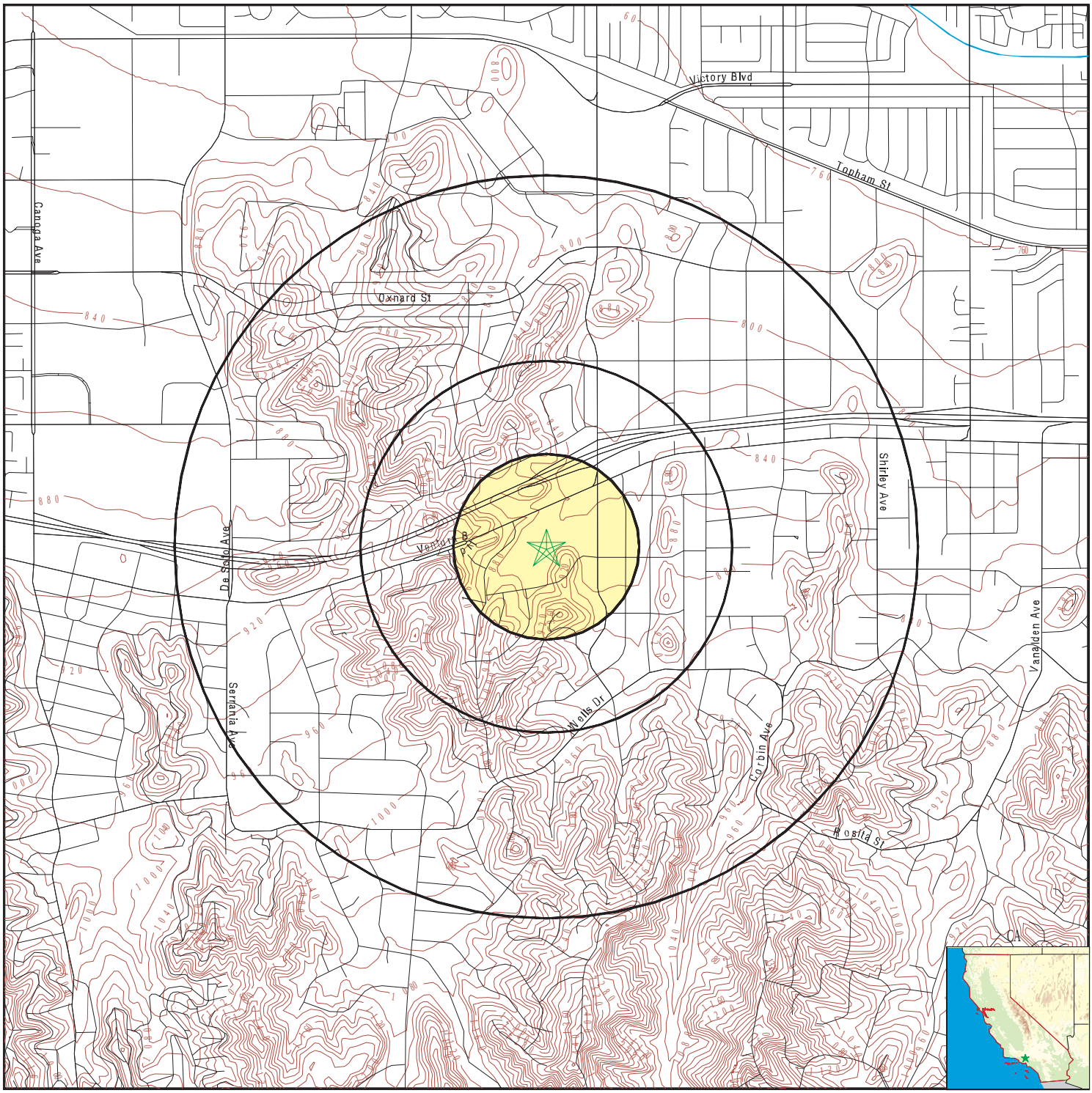
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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 - 5037330.2s



0 1/4 1/2 1 Miles

- 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
- 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:	Taft High School	CLIENT:	PlaceWorks
ADDRESS:	5461 Winnetka Ave Woodland Hills CA 91364	CONTACT:	Robyn Chaconas
		INQUIRY #:	5037330.2s
LAT/LONG:	34.168525 / 118.57336	DATE:	August 30, 2017 9:12 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91364	301	97

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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

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 I. Agency Information Requests and Records

PLACEWORKS

Request for Information

DATE	7/18/17
TO ADDRESS	California Department of Resources Recycling and Recovery 1001 I Street, MS-23A P.O. Box 4025 Sacramento, California 95812-4025
CONTACT	Public Records Act Requests PubRecReq@CalRecycle.ca.gov
SUBJECT	File Review Request
PROJECT NUMBER	LASD1-32.3

These items are transmitted via: ☐ US Mail ☐ Express Mail ☐ Courier ☐ Hand Delivery ☒ E-mail

GENERAL REMARKS:

PlaceWorks has been retained to prepare a Phase I Environmental Site Assessment (Phase I ESA) for a property in Los Angeles, California. Information regarding the subject property is provided below:

ADDRESSES:
5461 Winnetka Ave

Woodland Hills, CA 91364

APNS:
2166-042-902

If available, we would like to review or obtain copies of any of your department's information/records for this property.

Your assistance is greatly appreciated. Please do not hesitate to contact me at (213) 623.1443 ext. 2130 or e-mail me at cnero@placeworks.com if you have any questions or require further information regarding this request.

Cathy Nero

Cathy Nero

PLACEWORKS

Request for Information

DATE	July 18, 2017
TO ADDRESS	Department of Toxic Substance Control California Environmental Protection Agency 9211 Oakland Avenue Chatsworth, California 91311-65055 Glenn Castillo or Robert Hardison glenn.castillo@dtsc.ca.gov robert.hardison@dtsc.ca.gov
SUBJECT	File Review Request
PROJECT NUMBER	LASD1-32.3

These items are transmitted via: ☐ US Mail ☐ Express Mail ☐ Courier ☐ Hand Delivery ☒ E-mail

GENERAL REMARKS:

PlaceWorks has been retained to prepare a Phase I Environmental Site Assessment (Phase I ESA) for a property in Los Angeles, California. Information regarding the subject property is provided below:

ADDRESSES:
5461 Winnetka Ave

Woodland Hills, CA 91364

APNS:
2166-042-902

If available, we would like to review or obtain copies of any of your department's information/records for this property.

Your assistance is greatly appreciated. Please do not hesitate to contact me at (213) 623.1443 ext. 2130 or e-mail me at cnero@placeworks.com if you have any questions or require further information regarding this request.

Cathy Nero

Cathy Nero

Los Angeles City Fire Department

Telephone (213) 978-3691
Email: LAFDrfi@lacity.org
200 N. Main St., 17th Fl., Los Angeles, CA 90012

Request for Information
Hazardous Materials Records

***COMPLETE ONE FORM FOR EACH ADDRESS/FACILITY**

Request Date: _____

Requester's Name:_____ Email: _____

Company/ Agency: _____ PH.#: _____

Address: _____ Unit/Ste.: _____

City: _____ State: _____ Zip: _____

Information is requested for

PLEASE NOTE: YOU MUST PROVIDE A FACILITY ID # FOR ACTIVE/INACTIVE RECORDS.
VISIT http://www.lafd.org/public-records TO VIEW LIST OF ALL HAZARDOUS MATERIALS RECORDS.

Check all that apply: ☐ Inventory Summary ☐ Review File

Facility ID No: _____

Storage Address: _____ Unit/Ste.:_____

City: _____ Zip: _____

Reason for Request: _____

FOR OFFICE USE ONLY

☐ **NO INFORMATION ON FILE**
☐ **HARD FILE DESTROYED**
☐ **INFORMATION AVAILABLE**

Fee Schedule:
*Inventory Summary** x $11.00

Facility I.D. No.: _____

Request Review File Copies:

Request No.: _____

Initial Fee* $ 1.10

Processed Date: _____

# of pgs. _____x $0.10 = $_____

APPT. TO REVIEW FILE: _____

*Per Facility ID

Processor Signature:_____

TOTAL: $_____

Allow 10 working days for processing:

PLACEWORKS

Request for Information

DATE	July 18, 2017
TO ADDRESS	Custodian of Records Industrial Waste Management Division, City of Los Angeles, Bureau of Sanitation 2714 Media Center Drive Los Angeles, California 90065 cecile.dominguez@lacity.org
SUBJECT	File Review Request
PROJECT NUMBER	LASD1-32.3

These items are transmitted via: ☐ US Mail ☐ Express Mail ☐ Courier ☐ Hand Delivery ☒ E-mail

GENERAL REMARKS:

PlaceWorks has been retained to prepare a Phase I Environmental Site Assessment (Phase I ESA) for a property in Los Angeles, California. Information regarding the subject property is provided below:

ADDRESSES:
5461 Winnetka Ave

Woodland Hills, CA 91364

APNS:
2166-042-902

If available, we would like to review or obtain copies of any of your department's information/records for this property.

Your assistance is greatly appreciated. Please do not hesitate to contact me at (213) 623.1443 ext. 2130 or e-mail me at cnero@placeworks.com if you have any questions or require further information regarding this request.

Cathy Nero

Cathy Nero

County of Los Angeles
Fire Department

Your responses were successfully submitted. Thank you!

Would you like to submit another Records Request? If not, going back to HHMD Home Page

© 2017 Los Angeles County Fire Department.

PUBLIC RECORDS REQUEST FORM

ATTENTION REQUESTOR: To fulfill your request for records, please fill out this form completely, and identify specifically the type of records you are requesting. Requests must reasonably describe identifiable records prepared, owned, used, or retained by the Sanitation Districts.

REQUESTOR INFORMATION

Name: Cathy Nero		Date: 7-18-17
Company: PlaceWorks		
Mailing Address: 700 S. Flower Street, Suite 600		
City: Los Angeles	State: CA	Zip Code: 90017
Phone Number: 213.623.1443	Fax Number (optional):	
Email Address (recommended): cnero@placeworks.com		

REQUESTED RECORDS

Please clearly describe each requested record or document
*(use additional copies of this form, as necessary)**

We are performing a Phase I Environmental Assessment for a property in the City of Los Angeles, California. In accordance with your prescribed protocol for agency information requests, we would like you to provide any information you may have for this property:

5461 Winnetka Ave, Woodland Hills, CA 91364

Time Period of Document Requested	From:	To:

Time Period of Document Requested	From:	To:

Time Period of Document Requested	From:	To:

* *Requests that are not specific and focused will be returned for more information. If requested, the Sanitation Districts will assist you in making focused and effective requests for identifiable records. The Sanitation Districts will not create new documents or records in response to a request.*

Cathy Nero

Signature of Requestor

Submit requests by mail, email or fax to:

Records Administrator
County Sanitation Districts of Los Angeles County
P.O. Box 4998
Whittier, CA 90607-4998
records_administrator@lacsd.org
Fax (562) 699-5422

Office Use Only:
Date request received:
Date initial response issued:
Date request was closed:

DOC # 1503368

CALIFORNIA PUBLIC RECORDS ACT
RECORDS REQUEST FORM

Requestor Information:

Name: Cathy Nero

Organization/Affiliation: PlaceWorks

Address: 700 S Flower Street, Suite 600, Los Angeles, California 90017

Daytime Phone Number: 310.989.2815

Fax Number (if available): _____

Email Address (if available): cnero@placeworks.com

Request Information:

Today's Date: August 2, 2017

Records Requested (Please describe in detail):

Phase I ESA Request for LAUSD Taft High School at 5461 Winnetka Avenue, Woodland Hills, CA 91364. Specifically looking for information regarding transformers for Industrial Station 403 at the school site. Interested if site transformers contain or previously contained any PCB's.

Dates involved in requested documentation: _____

_____

Record Number (e.g., provide Contract, Case, or Board Resolution number if available): _____

The information requested, while not required, will assist in our response to your CPRA request.

General Information

Requests:

- Requests may be submitted by regular mail, electronic mail, or facsimile to:

  Los Angeles Department of Water and Power
  CPRA Clearinghouse
  Communications, Marketing, and
  Community Affairs Division
  P. O. Box 51111, Room 1520
  Los Angeles, CA 90051-5700
  Email: CPRA@ladwp.com

  FAX: (213) 367-0532

- Requestors are encouraged to provide a detailed written description of the records being requested. Clear and specific descriptions make it easier to determine if responsive records are in the possession of the LADWP.

- Requestors are encouraged to check LADWP.com before submitting a CPRA request, as the records sought may be posted at the LADWP Internet site.

Responses:

- Allow up to ten calendar days to receive a response to your request. A typical response letter may state that records are available for review, that additional time is required to search for records, or that no responsive records were found.

- Responsive records may be viewed at LADWP's downtown Los Angeles headquarters by scheduling a review session. Details regarding how to schedule a review session are included in the response letter.

- Some records are exempt from disclosure under the Public Records Act and other legal reasons may prevent records from being disclosed to the public.

Fees and Payments:

- There is no fee for the records review session. However, there are fees associated with duplication of records.

  - The duplication fee is $0.10 per page for standard-sized documents (8 ½" x 11" or 8 ½" x 14" white paper with black ink) and $0.25 per page for large-sized documents (11" x 17" inch white paper with black ink.)

  - Additional costs may apply for postage (e.g., first class U.S. Mail or expedited delivery), photographs, color reproductions, over-sized drawings, or special programming associated with electronic records.

- All payments are due at the time copies of records are requested. Checks should be made payable in U.S. funds to the *Los Angeles Department of Water and Power.*

  - For in-person payments, either cash or check is accepted.

  - For mail-in payments, requestors are encouraged to send checks (not cash) in order to ensure payments reach the CPRA Clearinghouse.

CALIFORNIA PUBLIC RECORDS ACT
RECORDS REQUEST FORM

Requestor Information:

Name: Cathy Nero

Organization/Affiliation: PlaceWorks

Address: 5461 Winnetka Avenue, Woodland Hills, California 91364

Daytime Phone Number: 310.989.2815

Fax Number (if available): _____

Email Address (if available): cnero@placeworks.com

Request Information:

Today's Date: July 13, 2017

Records Requested (Please describe in detail):

Looking for Transformer information for Industrial Station 403

Dates involved in requested documentation: _____

_____

Record Number (e.g., provide Contract, Case, or Board Resolution number if available): _____

The information requested, while not required, will assist in our response to your CPRA request.

General Information

Requests:

- Requests may be submitted by regular mail, electronic mail, or facsimile to:

  Los Angeles Department of Water and Power
  CPRA Clearinghouse
  Communications, Marketing, and
  Community Affairs Division
  P. O. Box 51111, Room 1520
  Los Angeles, CA 90051-5700
  Email: CPRA@ladwp.com

  FAX: (213) 367-0532

- Requestors are encouraged to provide a detailed written description of the records being requested. Clear and specific descriptions make it easier to determine if responsive records are in the possession of the LADWP.

- Requestors are encouraged to check LADWP.com before submitting a CPRA request, as the records sought may be posted at the LADWP Internet site.

Responses:

- Allow up to ten calendar days to receive a response to your request. A typical response letter may state that records are available for review, that additional time is required to search for records, or that no responsive records were found.

- Responsive records may be viewed at LADWP's downtown Los Angeles headquarters by scheduling a review session. Details regarding how to schedule a review session are included in the response letter.

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  - Additional costs may apply for postage (e.g., first class U.S. Mail or expedited delivery), photographs, color reproductions, over-sized drawings, or special programming associated with electronic records.

- All payments are due at the time copies of records are requested. Checks should be made payable in U.S. funds to the *Los Angeles Department of Water and Power.*

  - For in-person payments, either cash or check is accepted.

  - For mail-in payments, requestors are encouraged to send checks (not cash) in order to ensure payments reach the CPRA Clearinghouse.

California Regional Water Quality Control Board

Los Angeles Region

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Main Phone (213) 576-6600
Records Review FAX (213) 576-6676 **E-Mail**: RB4-Publicrecords@waterboards.ca.gov

Matthew Rodriquez
Secretary for Environmental Protection

Edmund G. Brown Jr.
Governor

Records Review Request Form

In order to respond to your request for review of public records, your assistance in indentifying the subject matter of the request is appreciated. Please limit your request to one facility or one site address for each request form. If you know the type of case or file that is being requested, please check the appropriate programs, or indicate if you would like to review all records:

Your contact information:

Name: Cathy Nero Date: 7-18-17

Company: PlaceWorks

Mailing Address: 700 S. Flower Street, Suite 600

City: Los Angeles State: CA Zip Code: 90017

Phone Number: 213.623.1443 Fax Number: E-Mail Address: cnero@placeworks.com

Requested Record Type:

- [x] NPDES permitting
  - [x] Individual permits
  - [x] General permits
- [ ] Contaminated Sediment
- [ ] Total Maximum Daily Loads (If known, specify the TMDL of interest)
- [ ] Basin Planning (specify amendment or Resolution No. of interest, if appropriate)
- [x] Enforcement (If known, specify the case or site)
- [x] Storm Water
  - [ ] Municipal Permits
    - [ ] Ventura
    - [ ] Los Angeles
    - [ ] Cal Trans
    - [ ] Other
  - [x] General Industrial Stormwater Permit
  - [x] General Construction Stormwater Permit
- [x] Underground Tanks
- [x] Remediation \
- [x] Groundwater Permitting
  - [x] Waste Discharge Requirements (WDR)
    - [x] WDR for Groundwater Remediation at Petroleum Hydrocarbon Fuel, Volatile Organic Compound or Hexavalent Chromium Impacted Sites
    - [x] WDR for Onsite Wastewater Treatment Systems or land discharge
- [x] Land Disposal
- [x] All Records

Time Period of Documents Requested: [ ] All From: To:

Requested Facility/Site Information

Facility Name:

Facility Address: 5461 Winnetka Ave

City: Woodland Hills State: CA Zip Code: 91364

Facility WDID No. (if known): NPDES Permit No. (if known):

Case No./C.I. No. (if known) File No. (if known)

PLACEWORKS

Request for Information

DATE	September 14, 2017
TO ADDRESS	Custodian of Records Los Angeles County Health Services Public Health Investigation (PHI) 555 Ferguson Drive Suite 120-04 Commerce, California 90022 phicor@ph.lacounty.gov
SUBJECT	File Review Request
PROJECT NUMBER	LASD1-32.3

These items are transmitted via: ☐ US Mail ☐ Express Mail ☐ Courier ☐ Hand Delivery ☒ E-mail

GENERAL REMARKS:

PlaceWorks has been retained to prepare a Phase I Environmental Site Assessment (Phase I ESA) for a property in Los Angeles, California. Information regarding the subject property is provided below:

ADDRESSES:	**APNS:**
5461 Winnetka Avenue, Woodland Hills, CA 91364	2166-042-902

If available, we would like to review or obtain copies of any of your department's information/records for this property.

Your assistance is greatly appreciated. Please do not hesitate to contact me at (213) 623.1443 ext. 2108 or e-mail me at rchaconas@placeworks.com if you have any questions or require further information regarding this request.

Robyn Chaconas

Los Angeles County Department of Public Works

YOU ARE NOT REQUIRED TO FILL OUT THIS FORM IN ORDER TO RECEIVE PUBLIC RECORDS UNDER THE CALIFORNIA PUBLIC RECORDS ACT. COMPLETING THIS FORM IS OPTIONAL. THE INFORMATION REQUESTED BELOW, HOWEVER, SERVES TO ASSIST OUR EMPLOYEES IN PROCESSING YOUR PUBLIC RECORDS REQUEST.

PUBLIC RECORDS INSPECTION/COPYING REQUEST

In accordance with the California Public Records Act, California Government Code 6250, et al., the Los Angeles County Department of Public Works (DPW) will respond to requests for DPW records and documents, and provide access to records and documents that have been designated public information. Every person has a right to inspect public records as provided in the Act during the Department's office hours.

("Public records" consist of any information relating to the public's business prepared, owned, used, or retained by any public agency. Included are handwritten, typewritten, printed or photocopied documents; photographic films and prints; maps; magnetic or paper tapes; magnetic or punched cards; discs; and other forms of data.)

Pursuant to the Act, certain records are not subject to disclosure. DPW, upon request for a copy of records, shall determine within 10 days from the request whether to comply with the request and shall immediately notify the person making the request of such determination. In unusual circumstances, the 10-day period specified above may be extended an additional 14 days upon written notice to the requestor, stating the reasons for the extension and the date a determination is expected.

* * * * * * * * * * * * * * *

Requested By: Cathy Nero (Please Print)

Date: July 18, 2017

I prefer to be contacted by: ☐ Telephone ☐ U.S. Mail ☑ E-mail

Telephone: 213.623.1443 U.S. Mail: _____

E-Mail: cnero@placeworks.com _____

DOCUMENTS REQUESTED: PlaceWorks, an environmental consulting firm, is performing a Phase I Environmental Assessment for a property in the City of Los Angeles, California. In accordance with your protocol for agency information requests, we would like you to provide any information you may have for the property described in this letter. Please direct your response to my attention should you have questions.

5461 Winnetka Ave, Woodland Hills, CA 91364

(OPTIONAL) Are the documents requested being sought for the purpose of a claim or litigation?
Yes ☐ No ☑

If yes, please indicate: Firm Name: _____

Case Name: _____

Case Number: _____ Court Location: _____

I understand that I may be charged for this service. Estimated cost (if over $50) $ _____

* * * * * * * * * * * * * * *

Documents delivered by _____ _____

Signature Date

Total cost $ _____ Cost detail _____

01-0039 DPW Rev. 3/06

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

Information Management
Public Records Unit

Direct Dial: (909) 396-3700
FAX: (909) 396-3330

PUBLIC RECORDS REQUEST FORM

PRU Office Use Only
CONTROL NUMBER

ATTENTION REQUESTOR: To expedite your request for District records, please fill out this form completely, and identify specifically the type of records you are requesting. Please limit your request to one facility or one site address for each request form filed, and three requested items per form. Additional forms or pages can be used if requesting information for more than one facility or for records not identified on this form. Requests should reasonably describe identifiable records prepared, owned, used, or retained by the District. Public Records Unit staff is available to assist you in identifying those records in the District's possession. The District is not required by law to create a new record or list from an existing record.

REQUESTOR INFORMATION

NAME: Cathy Nero		DATE: July 18, 2017
COMPANY: PlaceWorks		
MAILING ADDRESS: 700 S Flower Street, Suite 600		
CITY: Los Angeles	STATE: CA	ZIP CODE: 90017
PHONE NUMBER: 213.623.1443	E-Mail: cnero@placeworks.com	

REQUESTED RECORDS (*3 items per form*)

☒ Applications (APPLS)	☐ Complaints	☒ Asbestos Notifications/Records
☒ Permits to Operate (P/O)	☒ Site Inspection Reports (I/R)	☐ Facility Potential to Emit (PTE)
☒ Equipment List Report (EQL)	☐ Emissions Summary	☐ Facility Positive Balance (NSR)
☒ Notices of Violation (NOV)	☐ Source Test Reports (S/T RPTS)	☐ Toxic-Health Risk Assessment (HRA)
☐ Notices to Comply (N/C)	☐ Air Monitoring Data	☐ Other (describe below or on additional pages):
TIME PERIOD OF DOCUMENTS REQUESTED	From: 1900	To: Present

REQUESTED FACILITY INFORMATION (If Applicable)

FACILITY NAME:		
FACILITY ADDRESS: 5461 Winnetka Ave		
CITY: Woodland Hills	STATE: CA	ZIP CODE: 91364
FACILITY I.D. NO. (if known):	APPL. AND/OR PERMIT NO. (if known):	

***Direct cost of duplication**: $.15 per page for paper copies (first 10 pages free) and $5.00 per copied audio tape. No charge for copied Diskettes or CDs. Transfer of gathered electronic records onto CD or Diskette typically costs $10.00 each, but costs will vary (see Instructions for Requesting Records).*

☐ I wish to inspect the requested records, where applicable, and do not want copies produced at this time.
☐ I request that the SCAQMD contact me prior to copying the requested records if the cost exceeds $20.00.
☒ I would like copies of the requested records and I hereby agree to reimburse the SCAQMD for the direct cost of duplicating the requested records in accordance with Gov. Code Sec. 6253(b).

Cathy Nero

Signature of Requestor

Note: After a preliminary estimate, advance payment may be required.

(Rev. 10/05/06-lkoenig)

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

INSTRUCTIONS FOR REQUESTING RECORDS

(California Public Records Act, Govt. Code Sections 6250-6276.48)

1. In order to expedite your request, requests for records should be in writing. Requests will be processed in the order in which they are received. A Public Records Request Form can be faxed to you by calling (909) 396-3700 and following the menu options. A form is also available on the A.Q.M.D.'s web page at *http://*www.aqmd.gov. Select the "Contact Us" menu, followed by the "Public Records" menu. Requests may be submitted by facsimile to (909) 396-3330, or by email to PublicRecordsRequests@aqmd.gov.

2. Requests must be for records prepared, owned, used, or retained by the District (Gov. Code Sec. 6252(e)). Requests should be for clearly identifiable records. If necessary, the District will assist the requestor in making a request that describes reasonably identifiable records (Gov. Code Sec. 6253.1). Copies will not be provided if disclosure would infringe upon a copyright, trade secret, or is otherwise exempt in accordance with state law.

3. A search for facility records can only be conducted by one or all of the following:

   Facility Name, Address, or Identification Number;

   Facility Application Number, or Permit to Operate Number; or

   Facility Notice of Violation/Notice to Comply Number.

4. You will be notified by mail within ten (10) days whether your request seeks copies of disclosable public records prepared, owned, used, or retained by this agency. In most cases, your request will be completed within 3-4 weeks.

5. If the search for records finds the records voluminous, you will be notified of the approximate number of pages and/or length of time it will take to process your request.

6. If the records you requested have been marked confidential by the source of the record, you will be notified and given the option of continuing with the District's trade secret process.

7. If your request is to review records, rather than receive copies, the District will notify you once the records are gathered, and arrangements will be made for your review.

8. The charge for the direct cost of duplication is as follows: Paper Copies, $0.15/page each over 10 pages (first 10 pages are free); Copied CD's or Copied Diskettes, no charge; and Copied Audio Tapes, $5.00 each. When records are requested in electronic format, the requestor shall bear the cost of producing a copy of the record, including the cost to construct the record and the cost of programming and computer services necessary to produce a copy of the record when either of the following applies: (1) the District would be required to produce a copy of an electronic record and the record is one that is produced only at otherwise regularly scheduled intervals, or (2) the request would require data compilation, extraction, or programming to produce the record. (Gov. Code Sec. 6253.9(b)). The transfer of gathered electronic records onto CD or Diskette typically cost $10.00 each. An invoice will accompany your records when completed.

9. For further clarification please refer to the California Public Records Act (California Gov. Code Sec. 6250 et seq.) and/or the District's Guidelines for Implementing the California Public Records Act. The Guidelines are available in the lobby of the District Headquarters or on the District's web site at www.aqmd.gov.

If you have questions pertaining to the submittal of a Public Records Act request, you may contact the Public Records Unit, **(909) 396-3700, Tuesday through Friday, 7:00 a.m. to 5:30 p.m. Our Fax number is (909) 396-3330. Our email address is PublicRecordsRequests@aqmd.gov.** (Rev. 10/05/06-lkoenig)

Cathy Nero

From: Egli, Ryan@CalRecycle <Ryan.Egli@calrecycle.ca.gov>
Sent: Tuesday, July 25, 2017 10:15 AM
To: Cathy Nero
Subject: RE: File Review Rqst - LASD1-32.3

Ms. Nero,

CalRecycle is the home of California's recycling and waste reduction efforts. Officially known as the Department of Resources Recycling and Recovery, CalRecycle is a department within the California Environmental Protection Agency and administers programs formerly managed by the State's Integrated Waste Management Board and Division of Recycling.

CalRecycle has received your request for information regarding the following property;

5461 Winnetka Ave, Woodland Hills, CA 91364

CalRecycle, in conjunction with local agencies, is responsible for promoting waste management practices aimed at reducing the amount of waste that is disposed in landfills. CalRecycle administers various programs which promote waste reduction and recycling, with particular programs for tires, used oil, beverage containers, and electronics. CalRecycle also regulates landfills through a permitting, inspection, and enforcement program that is mainly enforced by local enforcement agencies that are certified by CalRecycle. In addition, CalRecycle oversees the cleanup of abandoned solid waste sites.

CalRecycle regulates nonhazardous (solid) waste facilities. CalRecycle did not begin collecting data on landfills until mid-1974 and did not actually begin regulating landfills until 1977 or 1978 therefore we may not have all historical information on any given site. CalRecycle maintains records on solid waste facilities in discrete facility permit files.

The Department of Toxic Substances Control (DTSC) would handle issues related to hazardous materials storage and hazardous releases. The State Water Resources Control Board (SWRCB) and the Regional Water Boards under the SWRCB would handle groundwater issues arising from such contamination. Both of these agencies are under the California Environmental Protection Agency. If you want to contact the environmental agencies under the California Environmental Protection Agency, here is a link to that contact information and guidelines for submitting Public Records Act requests to them: http://www.calepa.ca.gov/ContactUs/RecordsAct.htm.

We have checked the listings by address and do not have any facility files regarding the above.

You may also want to contact the LEA in Los Angeles county: http://www.calrecycle.ca.gov/LEA/Directory/default.asp

Thank you,

Ryan Egli, Public Records
Department of Resources Recycling and Recovery (CalRecycle)
1001 I Street - - MS-24B
Post Office Box 4025
Sacramento, California 95812-4025
Phone: 916/341-6072
Fax: 916/319-7387

From: Cathy Nero [mailto:cnero@placeworks.com]
Sent: Tuesday, July 18, 2017 9:55 AM
To: Public Records Requests <PubRecReq@CalRecycle.ca.gov>
Subject: File Review Rqst - LASD1-32.3

PlaceWorks, an environmental consulting firm, is performing a Phase I Environmental Assessment (Phase I ESA) for a property in the City of Los Angeles, California. In accordance with your prescribed protocol for agency information requests, we would like you to provide any information you may have for the property described in the attached letter/form. Please direct your response and any questions to my attention:

CATHY NERO
Administrative Assistant

700 S. Flower Street, Suite 600, Los Angeles, CA 90017
213.623.1443 | cnero@placeworks.com | placeworks.com

PLACEWORKS

LAUSD - TAFT HIGH SCHOOL 5461 N WINNETKA AVE, WOODLAND HILLS, CA 91364

Filter Chemicals By Nam

Expand/Collapse All

REPORT PERIOD: 2016
SUBMITTED 1/13/2017

CHEMICAL NAME	CAS NUMBER	HAZARD LABEL	AVERAGE DAILY AMOUNT RANGE
Gasoline	8006-61-9	Fire	12-59 Gallons

Common Name	GASOLINE
Hazard Type(s)	Fire
DOT Hazard Class	3 - Flammable and Combustible Liquids
CAS Number	8006-61-9
Max Daily Amount / Unit	60-119 Gallons
Avg Daily Amount / Unit	12-59 Gallons
Days Onsite	365
Physical State(s)	Liquid, Pure
Health Effect(s)	Delayed Health, Acute Health

Latex Paint 12-59 Gallons

Common Name	Latex Paint
Max Daily Amount / Unit	60-119 Gallons
Avg Daily Amount / Unit	12-59 Gallons
Days Onsite	365

Matthew Rodriquez
Secretary for
Environmental Protection

Department of Toxic Substances Control

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr
Governor

July 20, 2017

Ms. Cathy Nero
PLACEWORKS
700 S. Flower Street, Suite 600
Los Angeles, CA 90017

5461 Winnetka Avenue, Woodland Hills, CA 91364 (APN: 2166-042-902)
PR3-071817-02

Dear Ms. Nero:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would like to inform you about EnviroStor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view EnviroStor. If you have any questions or would like further information regarding your request, please contact me at (818) 717-6521.

Sincerely,

Robert Hardison

Robert Hardison/bh
Regional Records Coordinator

Printed on Recycled Paper

CITY OF LOS ANGELES

CALIFORNIA

BOARD OF PUBLIC WORKS MEMBERS

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PRESIDENT

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VICE PRESIDENT

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TIMEYIN DAFETA
HYPERION EXECUTIVE PLANT MANAGEI

INDUSTRIAL WASTE MANAGEMENT DIVISION
2714 MEDIA CENTER DRIVE
LOS ANGELES, CA 90065
OFFICE: (323) 342-6200
FAX: (323) 342-6111

18-Jul-17

Caty Nero

Placeworks

700 S. Flower St. Suite 600
Los Angeles, CA 90017

INDUSTRIAL WASTEWATER DISCHARGE PERMIT INFORMATION

Your request to research our files for Industrial Wastewater Discharge permit information was processed by my staff. Our records show the following findings:

Permits have been issued for: 5461 Winnetka Ave
Woodland Hills, CA 91364

(see attachments)

[X] No citations have been issued for the past 5 years. [ ] Yes, citations have been issued (see attachments).

The cost of generating this report is $ **$1.30** .

Please remit a check in the above amount payable to "Department of Public Works" and mail to:

Bureau of Sanitation

Industrial Waste Management Division

2714 Media Center Drive

Los Angeles, CA 90065

Attn: Admin Inspection Group

If you have any questions, please contact Rosemary Cubero of my staff at (323) 342-6064.

Sincerely,

ENRIQUE C. ZALDIVAR, Director

Bureau of Sanitation

By: Pamela C. La Beau

Pamela C La Beau, Acting Chief Env. Compliance Inspector II

Industrial Waste Management Division

C: Attachment [X] yes [ ] no

Rosemary Cubero

W-512561 IU#-IU086801 STATUS: A SIU SECT.: N DISTRICT: 01 SUBDIST:
FOG ZONE: 10 SUB-ZONE: 40
INSPECTOR: TRANG PHAM, RAMESH PATEL

* APPLICATION

APPL. REASON: Existing, but Unpermitted Point of Discharge
RECEIVED DATE: 02/02/06 RECEIPT #:

* INDUSTRIAL USER

LEGAL BUS. NAME: Los Angeles Unified School District
DBA NAME: TAFT SENIOR HIGH 8880
BUSINESS TYPE Public School Cafeteria
OWNERSHIP TYPE Government
ADDRESS: 5461 Winnetka Avenue
Woodland Hills, CA 91364
CONTACT NAME: Tiffany Monroy TITLE: Cafeteria Manager
BTRC: EXEMPT PHONE: (818) 348-3977

* INDUSTRIAL USER MAILING ADDRESS

NAME: LAUSD, Energy Unit
ADDRESS: 333 S Beaudry Avenue, Floor 22
Los Angeles, CA 90017
OR P.O. BOX: PHONE: (213) 241-0334
ATTENTION: Kenneth Davis

* BILLING ADDRESS

NAME: LAUSD, Energy Unit
ADDRESS: 333 S Beaudry Avenue, Floor 22
Los Angeles, CA 90017
OR P.O. BOX: PHONE: (213) 241-0334
ATTENTION: Kenneth Davis

* CORPORATE OFFICERS

NAME 1: Kenneth Davis
TITLE 1: Energy and Utilities Manager

NAME 2: Sharon Jean Pace Thomas
TITLE 2: Principal

* PROPERTY OWNER

NAME: Los Angeles Unified School District
ADDRESS: 333 S Beaudry Avenue
Los Angeles, CA 90017
OR P.O. BOX: PHONE:
ATTENTION:

* PERMITTEE LOCATION ADDRESS

DESCRIPTION: TAFT SENIOR HIGH 8880
ADDRESS: 5461 Winnetka Avenue
Woodland Hills, CA 91364
OR P.O. BOX: PHONE: (818) 348-3977
ATTENTION: Tiffany Monroy

COUNCIL DIST.: 3 Bob Blumenfield

* GENERAL INFORMATION

STATUS: A
DISTRICT: 01 West Valley District SUB-DISTRICT:
FOG ZONE: 10 SUB-ZONE: 40
DISCHARGE START DATE: 10/22/2003
FINAL DISPOSAL CODE: 01 Public Sewer
IND. CLASS.: 111 111-Schools
INSP. CLASS.: IP01 Inspection & Control Fee Class 1
BILLING TYPE/FREQ: G Permit for government property / Quarterly
RESTAURANT SEATING CAP: 400
LAUNDRY WASHER COUNT/CAPACITY(lbs): /
NUMBER OF GARBAGE GRINDER/EFF DATE: 0 / 01/17/2007

* FACILITY CLASSES

CLASS: LIU:FOG
NPDES:NPDES

* SMR FREQUENCIES

FEDERAL: LOCAL: SURCHARGE:

* PERMIT CERTIFICATE

PERMIT TYPE: LIU with FOG
PERMIT EFF. DATE: 05/25/2006 AMENDED DATE:
PERMIT EXP. DATE:
SIU GROUP:

* PERMIT TERMINATION

TERMINATION DATE:
TERMINATION REASON:
REQUESTOR:

* LATERAL CONNECTION ------ SEWER CONNECTION ------

DESCRIPTION: Public Sewer - Outlet Num : 0100
WYE MAP ID: SEWER PERMIT:
PIPE MATERIAL: SIZE (INCHES):

* FLOW INFORMATION

ORIGINAL TOTAL DISCHARGE FLOW (GPD, CAL.)/EFF. DATE: 100 / 03/08/2006
MAXIMUM TOTAL DISCHARGE FLOW (GPD, CAL.)/EFF. DATE: /
TOTAL DISCHARGE FLOW (GPD, CAL.)/EFF. DATE: /
AVG CALENDAR DAY FLOW (GPD, CAL.)/EFF. DATE:
AVG OPERATIONAL DAY FLOW (GPD, CAL.)/EFF. DATE:
SFC FLOW (GPD, CAL.)
SURCHARGE FLOW (GPD, CAL.)/EFF. DATE:
SURCHARGE PSDF FLOW (GPD, CAL.)/EFF. DATE:

* SURCHARGE INFORMATION

QUARTERLY SURCHARGE VALUES: SS: 0 MG/L BOD: 0 MG/L
ZERO BASED QUALITY SURCHARGE INDICATOR: N

* SAMPLE POINT INFORMATION

SP: 00-001 Sample Point Not Available -- Normal Operation
SP TYPE: End-of-Pipe SSF: N FLOW METER PRESENT: N EFFECTIVE DATE: 12/18/2003

* PROCESS UNIT OPERATION

PUO Code:
FBKG 000 Baking - Baking
FBOI 000 Boiling - Boiling
WASF 000 Floor Washing - Floor Washing
WASI 000 General Equipment Washing - General Equipment Washing
FSMR 000 Simmering - Simmering

* PRETREATMENT UNIT OPERATION

PTUO CODE:

00001	GT0091	GREASE REMOVAL - GREASE TRAP, GREASE MANUALLY REMOVE
	SC0020	SCREENING - STATIONARY SCREENS

* SIC

SIC CODE:	8211	Elementary and Secondary Schools
	5812	Eating Places

* NAICS

NAICS CODE:

* COOLING TOWER

TONNAGE:

* OTHER ENVIRONMENTAL PERMIT(S)

PERMIT#/DESCRIPT.: FSE Number from FOG DB / 25637 / IWMD/FOG

* OTHER INDUSTRIAL WASTEWATER PERMIT(S)

PERMIT NUMBER(S):

PREPARED BY: ---------- DATE: ----------

APPROVED BY: ---------- DATE: ----------

ENTERED BY: ---------- DATE: ----------

RUN DATE: 7/18/2017
RUN BY: RCUBERO

INSPECTION REPORT

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
West District Office
6167 Bristol Parkway, Suite 220
Culver City, CA 90230
Telephone: (310) 348-1781 / Fax: (310) 348-1793
www.fire.lacounty.gov/hhmd

Business: TAFT HIGH SCHOOL			**Inspection Date:** 06/09/2017
Address: 5461 WINNETKA AVE		**City/State:** WOODLAND HILLS CA 91364	**Telephone:** (213) 241-3199
Owner: LOS ANGELES USD		**Email:**	
FA #: FA0036766	**PR:** PR0059249	**Program Element:** HW GEN, 3-5 EMPLOYEES	**Inspection Type:** ROUTINE INSPECTION

☒ - No violations observed at the time of inspection.

☐ - NOTICE TO COMPLY/NOTICE OF VIOLATION.

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

OVERALL INSPECTION COMMENTS

Consent Given By:
SAMANTHA HAN

Attention: Non-compliance could result in re-inspection fees, permit revocation, and/or administrative/civil/criminal penalties. A re-inspection may occur at any time to verify compliance. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

It is improper and illegal for any County officer, employee or inspector to solicit bribes, gifts, or gratuities in connection with performing their official duties. Improper solicitations include requests for anything of value such as cash, discounts, free services, paid travel or entertainment, or tangible items such as food or beverages. Any attempt by a County employee to solicit bribes, gifts or gratuities for any reason should be reported immediately to either the County manager responsible for supervising the employee or the Fraud hotline at (800) 544-6861 or www.lacountyfraud.org. YOU MAY REMAIN ANONYMOUS.

Signatures

SAMANTHA HAN
ENVIRONMENTAL SAFETY OFFICER

Miguel Cervantes
Hazardous Materials Specialist II

PREVIOUS INSPECTIONS

Activity Date	PE	Rercord ID	Serial No.	Group Code	Service	Result	Action	Activity Min	Travel Min	Inspector ID
04/17/2013	1001	PR0059249	DA0684727		001	01	00	120	0	EE0000155
06/09/2017	1001	PR0059249	DAFK77ILC		001	01	00	60	60	EE0000161
07/07/2017	0100	FA0036766	DA0880431		051	00	00	30	0	EE0000161

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
West District Office
6167 Bristol Parkway, Suite 220
Culver City, CA 90230
Telephone: (310) 348-1781 / Fax: (310) 348-1793
www.fire.lacounty.gov/hhmd

Business:	**FA #:**	**Date:**
TAFT HIGH SCHOOL	FA0036766	06/09/2017

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

VIOLATIONS LIST

Open	Activity Date	Program Element	Viol Status	Service	Result	Action	Violation Degree	Comply on Date	Description

LOG SHEET

INSPECTOR FIELD NOTES

Friday, June 9, 2017 12:18 PM - MIGUEL CERVANTES

Routine hazardous waste inspection conducted at this LAUSD high school in L.A. City. This facility is a conditionally exempt small quantity generator(CESQG).

I. OPENING CONFERENCE:
Consent to conduct inspection requested and subsequently granted by Ms. Samanatha Han, Environmental Safety Officer.
Ownership information verified.

II. WALK THROUGH:
Ms. Han & Mr. Horacio, Plant Manager, accompanied during the walk through of the facility.
Hazardous wastes come from the science chemical storage rooms when chemicals are expired or when bottles are broken.
These chemicals are stored in rooms 134 & between rooms 165 & 167 in Building E & M, respectively. No ghazardous wastes were observed here.

No hazardous wastes were found in the Fuel Bunker where two 55 gallon drums with gasoline are stored.

No hazardous wastes were found in the Maintenance Storage Area where paints and cleaning supplies are stored. Also, universal waste(florescent light tubes) are stored here

No auto shop, pool, or print shop is present.

III. DOCUMENT REVIEW:
CUPA Permit current
CERS ID: 10245268
EPA ID: CAD982039422 is active in HWTS
LAUSD Office of Environmental Health & Safety transports their hazardous wastes to their centralized school hazardous waste collection location. Although, asbestos waste has been picked up by Earthwise Services

IV. CLOSING CONFERENCE:
The Inspection Report was reviewed with Ms. Han at time of inspection. Verified email addresses and obtained signature on inspection report.

V. VIOLATIONS

None

Co .ty of Los Angeles Fire Depart. ent
Health Hazardous Materials Division
West District Office
6167 Bristol Pkwy, Suite 220
Culver City, CA 90230

LOG SHEET

Site Name: Taft High School | **FA#: 36766**

Address: 5461 Winnetka Ave, Woodland Hills, CA 91364

Date	HMS Initials	Findings/Remarks
4-17-2013	Jp	Routine inspection conducted for HW. No violations observed. File. jp

LA County Fire Department
Facility Information Report

OWNER FILE INFORMATION

☐ Ownership change: _____ Effective Date ☐ Update ☐ Out of Business _____ Effective Date

Owner ID: OW0045055
Owner Name: LOS ANGELES USD
Owner DBA: TAFT HIGH SCHOOL
Owner Address: 333 S BEAUDRY AVE
LOS ANGELES, CA 90017
Work/Business Phone: 213-241-3199
Billing/Mailing Address: 333 S BEAUDRY AVE, 20TH FLOOR
LOS ANGELES, CA 90017
ATTN/Care of:
Ownership Type:

Tax ID :
Drvr Licns :

FACILITY FILE INFORMATION

Facility ID: FA0036766
Account ID: AR0043794
Facility Name: TAFT HIGH SCHOOL
No. of Employee: 5
Site Location: 5461 WINNETKA AVE
WOODLAND HILLS, CA 91364
Phone: 818-348-7171
Mailing Address: 333 S BEAUDRY AVE 20TH FL
LOS ANGELES, CA 90017
Operator/Care of:
District: W - WEST
City Code: LAC LOS ANGELES
CUPA Jurisdiction: LA
Operating Hours: Days Hours
SIC Code: 8211 - Elementary and secondary schools
Business Type / Code: 13 SCHOOL
Station:

EPA ID
CERS #
E-Mail : Not Specified

GENERAL HEALTH PROGRAM ELEMENTS

Record ID	Current Program Element	Current Status	# of Unit	Effective Date Beg.	Effective Date End	Changes: Program Element	Changes: Status
PR0059249	1001 - HW GEN, 0-5 EMPLOYEES	Active, billable	CAD982039422				

Add Program Element:

Program Element	Status	Effective Date	Program Element	Status	Effective Date

CA Waste Code					
RCRA Waste Code					
AMOUNT per quarter					
UNITS (PGTY) Pounds Gallons Loads Yards					

CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION:

PREVIOUS INSPECTIONS

Activity Date	Program Element	Service	Result	Action	Activity Min	Travel Min	Inspector ID	Violation Code

VIOLATIONS LIST

Open	Activity Date	Program Element	Viol Status	Service	Result	Action	Violation Code	Violation Degree	Description

CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION:

COUNTY OF LOS ANGELES FIRE DEPARTME
HEALTH HAZARDOUS MATERIALS DIVISION

INSPECTION REPORT

CERTIFIED UNIFIED PROGRAM AGENCY • PARTICIPATING AGENCY
6167 BRISTOL PARKWAY, SUITE 220, CULVER CITY, CA 90230
PHONE: (310) 348-1781 FAX: (310) 348-1793

BUSINESS:	OWNER:	DATE:
TAFT HIGH SCHOOL	LAUSD	4/17/2013
ADDRESS:		**FACILITY ID:**
5461 Winnetka Ave, Woodland Hills 91364		36766

The following requirements, if applicable, have been inspected. This document constitutes a summary of violations and notice to comply if the violation column (V) is checked. *References: Titles 19 and 22 of the California Code of Regulations (CCR); Chapters 6.5, 6.67, and 6.95 of the California Health and Safety Code (HSC); Titles 11 and 12 of the Los Angeles County Code (Co Ord); and Title 40 Code of Federal Regulations (CFR).* ***NOTE:*** *For all CFR sections refer to CCR 66262.34(d)(2) for applicability.*

INSPECTION TYPE: ☑ INITIAL ☐ RE-INSPECTION ☐ OTHER:

	V	HAZARDOUS WASTE (HW) GENERATOR	SECTION		V	HAZARDOUS WASTE GENERATOR	SECTION
1		HW accumulation time	22CCR12 66262.34(a-d)	27		HW analysis retained for 3 years	22CCR12 66262.40(c)
2		Satellite accumulation	22CCR12 66262.34(e)	28		HW determination	22CCR12 66262.11
3		HW labeling	22CCR12 66262.34(f)	29		Proper disposal of HW	HSC 6.5 25189.5(a)
4		Hazardous materials storage and labeling	22CCR11 66261.2(f)	30		Reckless management of HW	HSC 6.5 25189.6
5		Containers leaking or not in good condition	22CCR15 66265.171 | 40CFR1 265.171	31		Quarantine order	HSC 6.5 25187.6
6		Compatibility of waste with containers	22CCR15 66265.172 | 40CFR1 265.172	32		Maintain/operate to prevent release/fire	22CCR15 66265.31 | 40CFR1 265.31
7		HW containers closed	22CCR15 66265.173(a) | 40CFR1 265.173(a)	33		Required equipment and maintenance	22CCR15 66265.32-.33 | 40CFR 265.32-.33
8		Container inspection – weekly	22CCR15 66265.174 | 40CFR1 265.174	34		Required aisle space	22CCR15 66265.35 | 40CFR1 265.35
9		Separation of incompatibles	22CCR15 66265.177 | 40CFR1 265.177	35		Personnel training	22CCR15 66265.16 | 40CFR1 262.34(d)(5)(iii)
10		Tank overflow and spill prevention	22CCR15 66265.194 | 40CFR1 265.201(b)	36		Emergency information posting [SQGs]	40CFR1 262.34(d)(5)(ii)
11		Tank inspection	22CCR15 66265.195 | 40CFR1 265.201(d)	37		Contingency plan [LQGs]	22CCR15 66265.51
12		Tank system management	22CCR15 66265.190-.202 | 40CFR1 265.201	38		Source reduction requirements [LQGs]	22CCR31 67100.3
13		Empty containers	22CCR11 66261.7	39		Biennial report requirements [RCRA LQGs]	22CCR12 66262.40-.41
14		Used oil management	HSC 6.5 25250.4	40		Closure requirements [LQGs]	22CCR15 66265.111 / .114
15		Used oil / fuel filter management	22CCR16 66266.130 / HSC 6.5 25250.22	41		Site assessment requirements	HSC 6.5 25187(a)(1)
16		Used battery management	22CCR16 66266.81	42		Excluded recyclable material management	HSC 6.5 25143.2 / .9
17		Contaminated textile management	HSC 6.5 25144.6	43		Recyclable material report	HSC 6.5 25143.10
18		EPA ID number [submit DTSC form 1358]	22CCR12 66262.12	44		Universal waste management | Aerosol cans	22CCR23 66273.1-.8 | HSC 6.5 25201.16
19		HW manifest complete	22CCR12 66262.23(a)	45		Other violation(s)	
20		Manifest copies to DTSC	22CCR12 66262.23(a)(4)		V	**HAZARDOUS MATERIALS HANDLER**	**SECTION**
21		Manifest copies retained for 3 years	22CCR12 66262.40(a)	50		HMBP established and implemented	HSC 6.95 25503.5
22		Consolidated manifest requirements	HSC 6.5 25160.2	51		HMBP submitted; updated/accurate	HSC 6.95 25505
23		Manifest exception reporting	22CCR12 66262.42	52		CalARP General Requirements	19CCR4.5 2735.5(a)
24		HW transported with manifest	22CCR12 66262.20		V	**ABOVEGROUND PETROLEUM STORAGE**	**SECTION**
25		HW transported by registered hauler	HSC 6.5 25163(a)	60		SPCC plan	HSC 6.67 25270.4.5(a)
26		Land disposal restriction requirements	22CCR18 66268.7(a)	70		**PERMIT REQUIRED** – Submit UP Forms	Co Ord 12.50.075

☑ **NO SIGNIFICANT VIOLATIONS OBSERVED ON DATE OF INSPECTION.**
☐ **NOTICE TO COMPLY: THE VIOLATION(S) CITED MUST BE CORRECTED BY** _____.
☐ **RETURN CERTIFICATION OF COMPLIANCE FOUND ON BACK OF THIS NOTICE.**

Attention: The requirements checked are in violation. Non-compliance could result in re-inspection fees, permit revocation, and/or administrative/civil/criminal penalties. A re-inspection may occur at any time to verify compliance. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

It is improper and illegal for any County officer, employee or inspector to solicit bribes, gifts or gratuities in connection with performing their official duties. Improper solicitations include requests for anything of value such as cash, discounts, free services, paid travel or entertainment, or tangible items such as food or beverages. Any attempt by a County employee to solicit bribes, gifts or gratuities for any reason should be reported immediately to either the County manager responsible for supervising the employee or the Fraud hotline at (800) 544-6861 or www.lacountyfraud.org. YOU MAY REMAIN ANONYMOUS.

Inspected By:	Consent Given By:	Authorized Representative's Signature:
J. PERUKKONIL	Laura Maxwell	

Field Notes

LIST ORDER OF INSPECTION AS FOLLOWS: I. OPENING CONFERENCE II. WALK THROUGH III. DOCUMENTS IV. CLOSING CONFERENCE V. VIOLATIONS

I. OPENING CONFERENCE:

Consent granted by Laura Maxwell, EHS Coordinator for LAUSD for HW routine inspection. This facility is a Sr. high school with chemistry labs, maintenance area and facility w/ a CESQG.

II WALK THROUGH

chemistry lab area:

labs share the common chemical storage area.

↳ expired chemicals are inventoried as needed → disposed as HW.

chemical storage area:

1-55 gallon gasoline stored on site for equipment operation.

III DOCUMENT

CUPA permit - OK

HW disposal record → See attached manifest

Personnel training records - OK

IV/V CLOSING / VIOLATIONS

No violation observed

CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION:

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. CAD 98 2039422

Carrier No. CAD98203073

Page 1 of 1 ECOLOGY CONTROL INDUSTRIES (Name of carrier) (SCAC) Date 4-15-13

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec 1

TO:
Consignee LIGHTING RESOURCES
Street 805 E. FRANCIS ST.
City ONTARIO State CA Zip Code 91761

FROM: LAUSD
Shipper TAFT HIGH SCHOOL
Street 5461 WINNETKA AVE
City WOODLAND HILLS State CA Zip Code 91364
24 hr. Emergency Contact Tel. No. 310-354-9999

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
42 BOXES		FLUORESCENT LIGHT BULBS 49				
2 BOXES		MISCELLANEOUS LIGHT BULBS				

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER TAFT HIGH SCHOOL
PER ALMA AGUIRRE
Alma Aguirre 4-15-13

CARRIER ECOLOGY CONTROL INDUSTRIES
PER
DATE 4-15-13

1

Permanent post office address of shipper.

STYLE CF360-4 © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646 494536-FW

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAD982039422
2. Page 1 of 2
3. Emergency Response Phone: 310-354-9999 ECI
4. Manifest Tracking Number: 007944738 JJK

5. Generator's Name and Mailing Address:
LAUSD ATT: SOE AUNG
333 S. BEAUDRY AVE, 28TH FLOOR
LOS ANGELES, CA 90017
Generator's Phone: 213-241-3199

Generator's Site Address (if different than mailing address):
TAFT HIGH SCHOOL
5461 WINNETKA AVE.
WOODLAND HILLS, CA 91364

6. Transporter 1 Company Name: ECOLOGY CONTROL INDUSTRIES — U.S. EPA ID Number: CAD982030173

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CROSBY & OVERTON
1630 W. 17TH STREET
LONG BEACH, CA 90813
Facility's Phone: 562-432-5445
U.S. EPA ID Number: CAD028409019

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3264, WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, PGII (LAB PACK)	1	DF	EST. WT. 8	P	D002 551
X	2. UN1479, WASTE OXIDIZING SOLID, N.O.S., 5.1, ~~UN1479~~ PGII (LAB PACK)	1	DF	EST. WT. 8	P	D001 D006 551
	3. NON-RCRA HAZARDOUS WASTE SOLID (LAB PACK)	1	DF	EST. WT. 8	P	551
	4. NON RCRA HAZARDOUS WASTE LIQUID (LAB PACK)	1	DF	EST. WT. 40	P	551

14. Special Handling Instructions and Additional Information: WEAR PROPER SAFETY EQUIPMENT ECI JOB# 24-
1) LP1, 1x5, ERG#154
2) LP2, 1x5, ERG#140
3) LP3, 1x5
4) LP4 1x15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Alma Aguirre — Signature: Alma Aguirre — Month 4 Day 15 Year 13

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JEANNE DELPERDANG — Signature: [signature] — Month 4 Day 15 Year 13
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: CAD982039422

22. Page: 2 of 2

23. Manifest Tracking Number: 007944738JJK

24. Generator's Name: LAUSD- TAFT HIGH SCHOOL

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
	UN 2809, WASTE MERCURY, 8, PG III (LAB PACK)	1	DF	EST. LOT 8	P	D009	U151	

32. Special Handling Instructions and Additional Information

9) 1x5, LP5, ERG#172

GENERATOR

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Office of Environmental Health and Safety
333 South Beaudry Avenue, 20th Floor
Los Angeles, CA 90017
Phone: (213) 241-3199
Fax: (213) 241-6816

LOS ANGELES UNIFIED SCHOOL DISTRICT (LAUSD) PBR SHIPPING PAPER

Export / E-Mail Data

24 HOUR EMERGENCY CONTACT: ECI - (800) 321-5479

From:

Facility Name: Taft High School
Address: 5461 Winnetka Avuenue
City State, Zip: Woodland Hills, CA. 91364
Contact Name: Alma Aguirre
EPA ID #: CAD982039422
Mileage: 64 R/T

To:

Facility Name: School Hazardous Collection
Address: 620 East Pico Street
City State, Zip: Los Angeles CA, 90015
EPA ID: CAR000161927
Receiver Name: Jose Padilla and Octavio Leon
Signature:

Drive Time to Current Pickup Location: 1 hr(s) 30 min(s)
Time Spent at Current Pickup Location: ___ hr(s) 45 min(s)
Drive Time to Return to OEHS (leave blank if traveling to another pickup site from current location): ___ hr(s) ___ min(s)

Proper DOT Shipping Name, Hazard Class, ID No., Packing Group	EPA Waste Code	State Waste Code	Waste Qty	Physical State (1)	No. of Containers	Type of Used for Transport	Size of Used for Transport	Comments
Universal Waste (Fluorescent Lights)	None	None	112 P	Solid	8	CF	4 ft	
Non-RCRA Hazardous Waste, Liquid (Latex Paint)	None	291	120 P	Liquid	2	DF	20 gal	
Waste Flammable Liquids, N.O.S., 3 UN1993 PG II	D001	331	15 P	Liquid	1	DF	20 gal	
Waste Aerosols, 2.1 UN1950	D001	331	5 P	Liquid	1	DF	5 gallo	

Contributing Facility Representative Name

SIGN
Alma Aguirre — PRINT
Oct 1, 2010 — DATE

OEHS Transporter Name

SIGN
Jose Padilla and Octavio Leon — PRINT
Oct 1, 2010 — Date

Form OEHSPBR5- PBR Shipping Paper - Revised February 2009

Add Item

OEHS- Hazardous Waste Request Tracking

Shipping Papers

24 HOUR EMERGENCY CONTACT: CWI- 1 (800) 788-2167

1/13/10

Shipping Paper ID: 732

From:

Facility: Taft High School

Address: 5461 Winnetka Avenue

City, State, Zip: Woodland Hills, CA 91364

Contact Name: Alma Aguiñe

EPA ID #: CAD982039422

Mileage: 64

Facility: School Hazardous Collection Consolidation Accumulation Facility

Address: 620 East Pico Street

City, State, Zip: Los Angeles CA, 90015

EPA ID #: CAR000161927

Receiver Name: Octavio leon

Signature:

Drive Time to Pickup Location:	0 hr(s)	30 min(s)
Time Spent at Pickup Location:	1 hr(s)	0 min(s)
Drive Time to Return to OEHS:	0 hr(s)	0 min(s)

	Proper DOT Shipping Name	Waste Information				Transport Container Information			
ID Nu	Hazard Class, ID Number, Packing Group	EPA Code	State Code	Quantity	Physical State (1)	Quantity	Type	Size	Comments
1709	Universal Waste (Fluorescent Lights)			240 P	Solid	15	CF	4 FT	
1710	Universal Waste (Fluorescent Lights)			20 P	Solid	1	CF	8 FT	
1711	Universal Waste (high pressure sodium lights)			10 P	Solid	1	CF		

LOS ANGELES UNIFIED SCHOOL DISTRICT
HEALTH AND SAFETY TRAINING FORM

TRAINING LOCATION Taft HS DATE 4/8/13

The following employees have been trained in accordance with Title 8 of the California Code of Regulations in: (Please check one of the following)

[ ] Bloodborne Pathogens Exposure to Standard Chemicals Section 5193	[ ] Fire Prevention & Emergency Evacuation Sections 3220-3221	[ ] Hazard Communication Section 5194	[ ] Injury & Illness Prevention Program Section 3203	[ ] Occupational Hazardous Laboratories Section 5191

[X] Other (specify agency and applicable codes) Environmental Guidance for Plant Managers

PRINT NAME	SIGNATURE	EMPLOYEE #	JOB TITLE	WORK LOCATION
Alma Aguirre	Alma Aguirre	585093	Plant Mgr. III	Taft High School

Trainer or Site Administrator's Signature
Laura J. Maxwell

ATTACH A COPY OF THE AGENDA AND LIST OF TRAINING MATERIALS.

FIRE PREVENTION BUREAU TECHNICAL SECTION
200 NORTH MAIN STREET, RM 1780
LOS ANGELES, CA 90012

LOS ANGELES FIRE DEPARTMENT
Los Angeles Certified Unified Program Agency
(213) 978-3680

(2011/2012)

MAIN SITE

Facility ID:	FA0013641
Issue Date:	3/23/2012
Valid From:	7/1/2011
Valid To:	6/30/2012
Haz Waste BusID:	AR0043794
Active Sites:	1 of 1

LAUSD - TAFT HIGH SCHOOL SOE AUNG
333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017

CONSOLIDATED PERMIT

Los Angeles Certified Unified Program Agency

Los Angeles Fire Department

Hazardous Waste and Hazardous Materials Management Program

Business Name:
LAUSD - TAFT HIGH SCHOOL

Permit Site Address:
5461 N WINNETKA AVE
WOODLAND HILLS, CA 91364

Owned By:
LOS ANGELES UNIFIED SCHOOL DIS
Has paid in full the required fee in the amount of $931.00 on 02/24/2012

This permit is to be renewed annually. The following Unified Program Element(s) are covered in the permit.

PROGRAM ELEMENT	DESCRIPTION
HAZWASTE	HW GEN, 0-5 EMPLOYEES
HAZMAT	HAZ MAT INVENTORY 1 TO 3 CHEMICALS

Los Angeles City Fire Code Division 4: Hazardous Materials **

**Division 4 Permit is issued based on the condition that the facility is in compliance with all applicable rules, regulations, and laws pertaining to Division 4 Hazmat Materials.

Status of all program elements listed above (unless otherwise indicated): **PERMITTED**

THIS PERMIT IS NONTRANSFERABLE AND IS VOID UPON CHANGE OF OWNERSHIP OR LOCATION.
YOU MAY CONTINUE TO OPERATE UNDER THE **(2011/2012)** CONSOLIDATED PERMIT UNTIL ***September 30, 2012***
IF YOU MEET THE DEADLINES FOR PAYMENT FOR THE NEXT FISCAL YEAR AND MEET ALL OTHER REQUIREMENTS

BY:

BRIAN CUMMINGS
Fire Chief

The Consolidated Permit must be posted in a conspicuous location at the facility for review at all times.

See reverse page for conditions.

Please notify the City of Los Angeles Fire Department, Technical Section of any change to ownership or location within 30 days.
Address: 200 N. Main Street, Room 1780, Los Angeles, CA 90012 Telephone: 213-978-3680

UNIFIED PROGRAM (UP) FORM
BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID #	F	A		0	0	1		3	6	4	1				1	EPA ID # (Hazardous Waste Only) CAD982039422	2

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3
Taft High School

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility...		If Yes, please complete these pages of the UP FORM....
A. HAZARDOUS MATERIALS		
Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☑ Yes ☐ No 4	→HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION →CONSOLIDATED CONTINGENCY PLAN (Section I and Site Map(s)) →TRAINING PLAN
B. UNDERGROUND STORAGE TANKS (USTs)		
1. Own or operate underground storage tanks?	☐ Yes ☑ No 5	→UST FACILITY →UST TANK (one page per tank)
2. Intend to upgrade existing or install new USTs?	☐ Yes ☑ No 6	→UST FACILITY →UST TANK (one per tank) →UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank)
3. Need to report closing a UST?	☐ Yes ☑ No 7	→UST TANK (closure portion –one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)		
Own or operate ASTs above these thresholds: ---any tank capacity is greater than 660 gallons, or ---the total capacity for the facility is greater than 1,320 gallons?	☐ Yes ☑ No 8	NO FORM REQUIRED TO CUPAs
D. HAZARDOUS WASTE		
1. Generate hazardous waste?	☐ Yes ☑ No 9	→EPA ID NUMBER – provide at the top of this page. →As a generator, answer YES to Item E2b and complete Waste Generator Form.
2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	☐ Yes ☑ No 10	→RECYCLABLE MATERIALS REPORT
3. Treat hazardous waste on site?	☐ Yes ☑ No 11	→ONSITE HAZARDOUS WASTE TREATMENT – FACILITY →ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit)
4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ Yes ☑ No 12	→CERTIFICATION OF FINANCIAL ASSURANCE
5. Consolidate hazardous waste generated at a remote site?	☐ Yes ☑ No 13	→REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION
6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ Yes ☑ No 14	→HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
E. LOCAL REQUIREMENTS		15
1. REGULATED SUBSTANCES		
Have Regulated Substances (RS) stored on site at greater than the threshold quantities established by the California Accidental Release Program (Cal ARP) ?	☐ Yes ☑ No 15a	In addition to Hazardous Materials requirements, complete: →Regulated Substance Registration →Risk Management Plan (when required)
2. OTHER REQUIREMENTS		
a. Have hazardous materials stored on site at or above a threshold amount established by a CUPA's or PA's local ordinance?	☐ Yes ☑ No 15b	→Consult local CUPA or PA for added reporting requirements.
b. Required by a CUPA or PA to provide other information?	☐ Yes ☑ No 15c	→Waste Generator Form (LA County)

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA

UNIFIED PROGRAM (UP) FORM
BUSINESS OWNER/OPERATOR IDENTIFICATION

☐ NEW BUSINESS ☐ OUT OF BUSINESS ☑ REVISE/UPDATE (EFFECTIVE) PAGE OF

I. IDENTIFICATION

FACILITY ID# F A 0 0 1 3 6 4 1 1	BEGINNING DATE 100: 1/1/2012	ENDING DATE 101: 12/31/2012	
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3: Taft High School	BUSINESS PHONE 102: (818) 227-3600		
BUSINESS SITE ADDRESS 103: 5461 Winnetka Avenue			
CITY 104: Woodland Hills	CA	ZIP CODE 105: 91364	
DUN & BRADSTREET 106: N/A	SIC CODE (4 digit #) 107: 8211		
COUNTY 108: Los Angeles	UNINCORPORATED 133a: No		
BUSINESS OPERATOR NAME 109: Los Angeles Unified School District	BUSINESS OPERATOR PHONE 110: (213) 241-3199		

II. BUSINESS OWNER

OWNER NAME 111: Los Angeles Unified School District	OWNER PHONE 112: (213) 241-3199	
OWNER MAILING ADDRESS 113: 333 S. Beaudry Avenue, 28th Floor		
CITY 114: Los Angeles	STATE 115: CA	ZIP CODE 116: 90017

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117: Soe Aung	CONTACT PHONE 118: (213) 241-3199	
CONTACT MAILING ADDRESS 119: 333 S. Beaudry Avenue, 28th Floor		
CITY 120: Los Angeles	STATE 121: CA	ZIP CODE 122: 90017

IV. EMERGENCY CONTACTS

-PRIMARY-	-SECONDARY-
NAME 123: Delia Estrada	NAME 128: Alma Aguirre
TITLE 124: Principal	TITLE 129: Plant Manager
BUSINESS PHONE 125: (818) 227-3600	BUSINESS PHONE 130: (818) 227-3633
24-HOUR PHONE 126: (213) 625-6631	24-HOUR PHONE 131: (213) 625-6631
PAGER # 127:	PAGER # 132:

V. ADDITIONAL LOCALLY COLLECTED INFORMATION 133

NUMBER OF EMPLOYEES 133b: 5	FEDERAL TAX IDENTIFICATION NUMBER 133c:

MAILING/ BILLING INFORMATION

ADDRESS 133d	CITY 133e	STATE 133f	ZIP CODE 133g
333 S. Beaudry Avenue, 28th Floor	Los Angeles	CA	90017

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE 134: 1/3/2012	NAME OF DOCUMENT PREPARER 135: Laura Maxwell
NAME OF SIGNER (print) 136: Delia Estrada	TITLE OF SIGNER 137: Principal	

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA

INSPECTOR	DISTRICT	DATE OF INSPECTION	DIVISION	BATTALION	STATION

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

COVER PAGE

FACILITY IDENTIFICATION					
BUSINESS NAME **Taft High School**			3	FACILITY ID # 1 **FA0013641**	
SITE ADDRESS **5461 Winnetka Avenue**	103	CITY **Woodland Hills**	104	ZIP CODE **91364**	105

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

PROGRAMS	SECTION(S) TO BE COMPLETED
Hazardous Materials Business Plan (HMBP)	Cover Page, Section I, and Site Map(s)
Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Map(s)
Underground Storage Tank (UST)	Cover Page, Sections I and II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections I and II, and Site Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

Main Office

PLAN CERTIFICATION

I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.

Printed Name of Owner/ Operator	Title of Owner/Operator
Delia Estrada	**Principal**
Signature of Owner/ Operator	Date **1/3/2012**

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

OFFICIAL USE ONLY			DATE RECEIVED		REVIEWED BY	
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

I. FACILITY IDENTIFICATION

BUSINESS NAME **Taft High School**	3			FACILITY ID # 1 **FA0013641**	
SITE ADDRESS **5461 Winnetka Avenue**	103	CITY **Woodland Hills**	104	ZIP CODE **91364**	105

II. EMERGENCY CONTACTS

PRIMARY		SECONDARY	
NAME **Delia Estrada**	123	NAME **Alma Aguirre**	128
TITLE **Principal**	124	TITLE **Plant Manager**	129
BUSINESS PHONE **(818) 227-3600**	125	BUSINESS PHONE **(818) 227-3633**	130
24-HOUR PHONE **(213) 625-6631**	126	24-HOUR PHONE **(213) 625-6631**	131
PAGER #	127	PAGER #	132

III. EMERGENCY RESPONSE PLANS AND PROCEDURES

A. Notifications

Your business is required by State Law to provide an immediate verbal report of any release or threatened release of a hazardous material to local fire emergency response personnel, this Unified Program Agency (CUPA or PA), and the Office of Emergency Services. If you have a release or threatened release of hazardous materials, immediately call:

FIRE/PARAMEDICS/POLICE/SHERIFF
PHONE: 911

AFTER the local emergency response personnel are notified, you shall then notify this Unified Program Agency and the Office of Emergency Services.

Local Unified Program Agency: (323) 890-4317
State Office of Emergency Service: (800) 852-7550 or (916) 262-1621
National Response Center: (800) 424-8802

Information to be provided during Notification:

- ◁ Your Name and the Telephone Number from where you are calling.
- ◁ Exact address of the release or threatened release.
- ◁ Date, time, cause, and type of incident (e.g. fire, air release, spill etc.)
- ◁ Material and quantity of the release, to the extent known.
- ◁ Current condition of the facility.
- ◁ Extent of injuries, if any.
- ◁ Possible hazards to public health and/ or the environment outside of the facility.

B. Emergency Medical Facility

List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a release or threatened release of hazardous material

HOSPITAL/CLINIC: **Encino-Tarzana Regional Medical Center**	PHONE NO: **(818) 881-0800**
ADDRESS: **18321 Clark St.**	
CITY: **Tarzana**	ZIP CODE: **91356**

OFFICIAL USE ONLY		DATE RECEIVED		REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

C. Private Emergency Response

DOES YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM? ☐ Yes ☑ No

If yes, provide an attachment that describes what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.

CLEANUP/DISPOSAL CONTRACTOR

List the contractor that will provide cleanup services in the event of a release.

NAME OF CONTRACTOR:	PHONE NO:
Ecology Control Industries	**(310) 354-9999**
ADDRESS: **19500 Normandie Avenue**	
CITY: **Torrance, CA**	ZIP CODE: **90501**

D. Arrangements With Emergency Responders

If you have made special (i.e. contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements on the lines below:

All LAUSD schools are served by the School District Police Department. In addition, they are supported by the District's Office of Environmental Health and Safety that has an Emergency Response team that is trained and licensed to oversee hazardous material clean-up.

E. Evacuation Plan

1. The following alarm signal(s) will be used to begin evacuation of the facility *(check all which apply)*:

☑ Verbal ☑ Telephone *(including cellular)* ☑ Alarm System ☑ Public Address System ☑ Intercom
☐ Pagers ☑ Portable Radio ☐ Other *(specify)*:

2. ☑ Evacuation map is prominently displayed throughout the facility. **Yes. In the Safe School Plan**

3. ☑ Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated: **All Administrative Staff, Certificated and Classified Staff - See Safe School Plan, Volume 2**

F. Earthquake Vulnerability

Identify areas of the facility where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Hazardous Waste/ Hazardous Materials Storage Areas ☐ Production Floor ☐ Process Lines
☑ Bench/ Lab ☐ Waste Treatment ☐ Other:

Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☑ Utilities ☑ Sprinkler Systems ☑ Cabinets ☑ Shelves
☐ Racks ☐ Pressure Vessels ☐ Gas Cylinders ☐ Tanks
☐ Process Piping ☑ Shutoff Valves ☐ Other:

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

G. Emergency Procedures

Briefly describe your business standard operating procedures in the event of a release or threatened release of hazardous materials:

1. **PREVENTION** (prevent the hazard) - Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

All Los Angeles City schools are limited to a small number of approved chemicals that are allowed on campus. Chemistry classes are encouraged to use "Micro Chemistry" to reduce the quantity of chemicals being used and stored on campus. Schools are not allowed to store or use any kinds of herbicides or pesticides for weed or pest management.

Gasoline drums shall be stored inside a locked flammable liquid storage room (i.e. gasoline bunker or block house) and shall be posted with 'No Smoking' and 'Flammable Liquid' signs outside the room. Gasoline drums shall be grounded with wire at all times. Diesel drums shall also be kept inside the flammable liquid storage room. 'No Smoking' and ' Combustible Liquid' signs shall be posted for diesel drums. Welding process shall not be conducted nearby this room. It is strongly suggested to store minimal quantity and to use secondary containment system for these drums.

Compressed gas cylinders shall be chained at all times. A compressed gas sign shall be posted on the cylinder(s) or by the cylinder(s). Waste oil and waste anti-freeze drums shall be kept inside the secondary containment system and affixed with completed hazardous waste labels

2. **MITIGATION** (reduce the hazard) - Describe what is done to lessen the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

All Los Angeles City School personnel receive annual training on chemical safety. In addition, specific classes of employees receive additional training on chemical use and safety. At least once a year the schools are inspected by a School Safety Officer and chemical supplies are inspected. Outdated and unauthorized chemicals are removed.

3. **ABATEMENT** (remove the hazard) - Describe what you would do to stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

All Los Angeles City Schools follow specific directions found in Safe School Plan, Volume 2 - Emergency Procedures. If a substance is released the students are evacuated to a safe zone, the release area is isolated and access is restricted. The School will call the Office of Environmental Health and Safety and their Emergency Reponse Team will work with local responders and district contractors to abate the condition.

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

IV. Emergency Equipment

22 CCR, Section 66265.52(e) [as referenced by Section 66262.34(a)(3)] requires that emergency equipment at the facility be listed. Completion of the following Emergency Equipment Inventory Table meets this requirement.

1. Equipment Category	2. Equipment Type	3. Location *	4. Description**
Personal Protective, Equipment, Safety Equipment, and First Aid Equipment	☐ Cartridge Respirators		
	☐ Chemical Monitoring Equipment *(describe)*		
	☑ Chemical Protective Aprons/Coats		Rubber
	☑ Chemical Protective Boots		Rubber
	☑ Chemical Protective Gloves		Latex
	☐ Chemical Protective Suits *(describe)*		
	☑ Face Shields		Fullface
	☑ First Aid Kits/Stations *(describe)*		Standard
	☑ Hard Hats		Plastic
	☑ Plumbed Eye Wash Stations		Standard
	☑ Portable Eye Wash Kits *(i.e. bottle type)*		Eyesaline
	☐ Respirator Cartridges *(describe)*		
	☑ Safety Glasses/Splash Goggles		Plastic
	☐ Safety Showers		
	☐ Self-Contained Breathing Apparatuses (SCBA)		
	☐ Other *(describe)*		
Fire Extinguishing Systems	☑ Automatic Fire Sptinkler Systems		Standard
	☑ Fire Alarm Boxes/Stations		Standard
	☑ Fire Extinguisher Systems *(describe)*		Standard
	☐ Other *(describe)*		
Spill Control Equipment and Decontamination Equipment	☑ Absorbents (describe)		Absorbent
	☐ Berms/Dikes (describe)		
	☐ Decontamination Equipment (describe)		
	☐ Emergency Tanks (describe)		
	☐ Exhaust Hoods		
	☐ Gas Cylinders Leak Repair Kits (describe)		
	☐ Neutralizers (describe)		
	☐ Overpack Drums		
	☐ Sumps (describe)		
	☐ Other (describe)		
Communications and Alarm Systems	☐ Chemical Alarms (describe)		
	☑ Intercoms/ PA Systems		Standard
	☑ Portable Radios		Hand-held
	☑ Telephones		Standard
	☐ Underground Tank Leak Detection Monitors		
	☐ Other (describe)		
Additional Equipment (Use Additional Pages if Needed.)			

**Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.*

***Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.*

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities *(generally those with complex and/or multiple buildings)* should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. **Site Plan:** This drawing shall contain, at a minimum, the following information:

   a. Site Orientation (north, south, etc.);
   b. Approximate scale *(e.g. "1 inch = 10 feet".)*;
   c. Date the map was drawn;
   d. Locations of all buildings and other structures;
   e. Parking lots and internal roads;
   f. Hazardous materials loading/unloading areas;
   g. Outside hazardous materials storage or use areas;
   h. Storm drain and sanitary sewer drain inlets;
   i. Wells for monitoring of underground tank systems;
   j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
   k. Adjacent property use;
   l. Locations and names of adjacent streets and alleys;
   m. Access and egress points and roads.

2. **Storage Map(s):** The map(s) shall contain, at a minimum, the following information:

   a. General purpose of each section/area within each building *(e.g. "Office Area", "Manufacturing Area", etc.)*;
   b. Location of each hazardous material/waste storage, dispensing, use, or handling area *(e.g. individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.)*. Each area shall be identified by a unique location code number, letter, or name *(e.g. "1", "2", "3"; "A", "B", "C", etc.)*;
   c. Entrances to and exits from each building and hazardous material/waste room/area;
   d. Location of each utility emergency shut-off point *(i.e. gas, water, electric.)*;
   e. Location of each monitoring system control panel *(e.g. underground tank monitoring, toxic gas monitoring, etc.)*.

3. **Map Legend**

Item and/or Description	Location Code (LC)
Fuel Bunker	
ER Bin	
Gas shut-off	
Water shut-off	
Electrical shut-off	
Cleaner storage bin	
Hydrant	
Hydrant	
Hydrant	
Hydrant	
Hydrant	
Hydrant	

UNIFIED PROGRAM (UP) FOR
HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☑ REVISE REPORTING YEAR 2012 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
Taft High School

CHEMICAL LOCATION 201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ Yes ☑ No 202

FACILITY ID # F A 0 0 1 3 6 4 1

MAP# (optional) 203 **See Page 18**

GRID# (optional) 204 **C-10**

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Gasoline

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME **Gasoline** 207

EHS* ☐ Yes ☑ No 208

CAS# **8006-61-9** 209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 12

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER **55 Gallons** 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☑ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
50 Gallons	**110 Gallons**	**N/A**	**N/A**

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: **365** 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ B. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOE BIN
☑ d. STEEL DRUM ☐ h. SILO ☐ i. CYLINDER ☐ p. TANK WAGON
223

STORAGE PRESSURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☑ a.AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ c. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
100 226	**Gasoline** 27	☐ Yes ☑ No 228	**Mixture** 229
0 - 50 230	**Miscellaneous Hydrocarbons** 31	☐ Yes ☑ No 232	**Mixture** 233
0 - 25 234	**Xylene, mixed isomers** 35	☐ Yes ☑ No 236	**1330-20-7** 237
0 - 25 238	**Toluene** 39	☐ Yes ☑ No 240	**108-88-3** 241
0 - 5 242	**1,2,4--Trimethyl Benzene** 43	☐ Yes ☑ No 244	**95-63-6** 245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED		REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

PUBLIC RECORDS REQUEST FORM

ATTENTION REQUESTOR: To fulfill your request for records, please fill out this form completely, and identify specifically the type of records you are requesting. Requests must reasonably describe identifiable records prepared, owned, used, or retained by the Sanitation Districts.

REQUESTOR INFORMATION

Name: Cathy Nero		Date: 7-18-17
Company: PlaceWorks		
Mailing Address: 700 S. Flower Street, Suite 600		
City: Los Angeles	State: CA	Zip Code: 90017
Phone Number: 213.623.1443	Fax Number (optional):	
Email Address (recommended): cnero@placeworks.com		

REQUESTED RECORDS

Please clearly describe each requested record or document
*(use additional copies of this form, as necessary)**

We are performing a Phase I Environmental Assessment for a property in the City of Los Angeles, California. In accordance with your prescribed protocol for agency information requests, we would like you to provide any information you may have for this property:

5461 Winnetka Ave, Woodland Hills, CA 91364

Time Period of Document Requested	From:	To:

No records found; not in the LACSD service area. 7/24/2017

Time Period of Document Requested	From:	To:

Time Period of Document Requested	From:	To:

* *Requests that are not specific and focused will be returned for more information. If requested, the Sanitation Districts will assist you in making focused and effective requests for identifiable records. The Sanitation Districts will not create new documents or records in response to a request.*

Cathy Nero
Signature of Requestor

Submit requests by mail, email or fax to:

Records Administrator
County Sanitation Districts of Los Angeles County
P.O. Box 4998
Whittier, CA 90607-4998
records_administrator@lacsd.org
Fax (562) 699-5422

Office Use Only:
Date request received:
Date initial response issued:
Date request was closed:

DOC # 1503368

JUL 19 '17 AM 11:53

DOC #

Smith L.

Los Angeles Department of Water & Power

ERIC GARCETTI
Mayor

Commission
MEL LEVINE, *President*
WILLIAM W. FUNDERBURK JR., *Vice President*
JILL BANKS BARAD
CHRISTINA E. NOONAN
AURA VASQUEZ
BARBARA E. MOSCHOS, *Secretary*

DAVID H. WRIGHT
General Manager

August 1, 2017

Ms. Cathy Nero
PlaceWorks
5461 Winnetka Avenue
Woodland Hills, CA 91364

Dear Ms. Nero:

Subject: California Public Records Act Request No. R17-202 – Information on Transformer Station 403

This letter is in response to your California Public Records Act (CPRA) request addressed to the Los Angeles Department of Water and Power (LADWP) dated July 13, 2017, seeking records related to the above subject.

The LADWP conducted a thorough records search and identified records responsive to your request.

To schedule a viewing of the current records we have on hand, please contact the LADWP CPRA Clearinghouse at (213) 367-4440. During the review session, you may indicate which, if any, records you wish to have duplicated. In accordance with the Los Angeles Administrative Code, the fee for this duplication service is 10 cents per page for standard 8.5 x 11- or 8.5 x 14-inch white paper with black ink and 25 cents per 11x17-inch paper with black ink. Duplication of non-standard items may require additional time. You can arrange for delivery of these non-standard items at the time your duplication request is placed. Payment, which is due at the time of the duplication request, may be in cash or check made payable to the Los Angeles Department of Water and Power. There is no fee if you wish only to view the documents at the LADWP's John Ferraro Building, located at 111 North Hope Street, Los Angeles, CA 90012.

If you have any additional requests for records, you are encouraged to submit an LADWP CPRA Request Form. Submitting your request on the form helps clarify the records being sought and assists in preparing a response to you. The LADWP CPRA Request Form is available at LADWP.com (click on *About Us, Finances & Reports,* and *Reports,* where you will find a link to the Public Records Request Form), or contact the CPRA Clearinghouse at (213) 367-4440 or CPRA@ladwp.com.

Sincerely,

Joseph M. Ramallo
Assistant General Manager
Communications, Marketing,
and Community Affairs Division

CPRA No. R17-202 DWP

City of Los Angeles
Los Angeles Department of Water and Power
Receipt for CPRA Records

The amount of $0.60 paid by Robyn Chaconas/Cathy Nero (Requestor's Name) of Placeworks

The basis for this amount is:

Quantity	Page Size/Item Description	Cost per page/item	Total
6	8 1/2 X 11 inch	$0.10	$0.60
		Total	$0.60

☐ Check _____ ☒ Cash Payment received by: GREG BARTON (LADWP Staff) on 09/12/17 (Date)

Funds deposited with Cashier by: _____ (LADWP Staff) on _____ (Date)

Comments:

For Questions Contact
CPRA Clearinghouse
cpra@ladwp.com
(213) 367-4440

Records picked up on 9/12/17

FILE COPY

Is No)	403
Cust Name	LAUSD-William Howard Taft HS
Cust Addr	5461 WINNETKA AVE

Station Type	Area map	Page	Grid
O	431	630	E7

Premier	Ats	Cogen	In Service	Customer Load	Num Feeds	Relays	Di
Y	N	Y	Y	Y	Sgl	N	NR

	Bk1 Capacity	Bk2 Capacity	Bk3 Capacity	Bk4 Capacity
Capacity	1000	0	0	0
Voltage	480			

Fuses	Transformer Record
50-E, SM-5, S&C	76714, 76573, 76705

Comments	
	10/6/01 250-KVa transformers replaced with 333-KVa units

Circuit Name	Bk 1 P/E	Bk 1 Line Pos	Bk 2 P/E	Bk 2 Line Pos	Poletop	RS	Section	District 1
VNT PED 1					2772	T	C	NR

© 2017 - Operational Records

07/25/17 POWER DISTRIBUTION FACILITIES MANAGEMENT NF4527-V02
13:31:44 I.S. Transformer List Page: 1

I.S. Status: ACTIVE

I.S. No: 0403 OUTDOOR
LAUSD - WILLIAM HOWARD TAFT HIGH SCHOOL

Actual Capacity 34.5kV: 999 KVA
Actual Capacity 4.8kV: KVA
Ultimate Capacity: KVA

Sel	Bank	Xfmr Record	Xfmr Station No.	Station Status	KVA	Phs	Serial No.	Pole No.
S	01	76714	IS0403-01	A	333	3	4708-3-8	
S	01	76573	IS0403-02	A	333	1	4942-3-2	
S	01	76705	IS0403-03	A	333	3	4942-3-6	

PF01=Help PF02=I.S. Menu PF06=I.S. Xfmr Slct PF07=Page Bkwd
PF08=Page Frwd
DFS2162 13:32:19 TERMINAL IN RESPONSE MODE - ENTER PA1 OR PA2 THEN AWAIT REPLY
Lterm: TPXGR797

07/25/17 POWER DISTRIBUTION FACILITIES MANAGEMENT NF340401-V06
13:35:03 TRANSFORMER RECORD DATA
Mode: R

Cut Pending To:
Tr Rec: 76714 A Dspl EPA: Dest Dt:
KVA Size: 000333.0 - 000333.0 Mfg: CTC Serial: 4708-3-8 Phase: 3
Type: PWR Pri Volt: 34400 Sec Volt: 480/240 Prot:
Imped: 04.54 Imped Dt: 03 06 1986 Accessories: Pol: S
Oil Volume (gals): 0.0 PCB PPM: 000001 PCB Dt: 12 31 1999
Salvage Bid: Salvage Dt:
Rmk:
Matl Cd: Rcvd Dt: Failure Comp: Cause:
Cntrct: Cntrct Yr: Mfg PCB less than 2:
Manifest: Disposal Dt: Wst Char Dt:

Install Auth	Sta Nbr	Install Dt	Remove Auth	Remove Dt	Spc Srv
CHANGES P.S.	IS0403-01	10/08/2001			N
20030	IS0671-02	02/27/1961	51-52665	04/17/1978	Y

PF1=Main Menu PF2=Xfmr Menu PF3=Select Scr PF4=Clear Scrn PF5=PCB Tests
PF6=Elec Tests PF7=Prev Xfmr PF8=Next Xfmr PF9=Sta Data PF10=Xfmr Hist
PF11=Actv/Inactv Xfmr PF13=Cut Hist PF14=Gases Test PF15=PCB/Retro

LTERM: TPXGR797 Last Change: XPDDCGA 1990-05-19-11.51.43.579145

07/25/17 POWER DISTRIBUTION FACILITIES MANAGEMENT NF340401-V06
13:55:11 TRANSFORMER RECORD DATA
Mode: R

Cut Pending To:
Tr Rec: 76705 A Dspl EPA: Dest Dt:
KVA Size: 000333.0 - 000333.0 Mfg: CTC Serial: 4942-3-6 Phase: 3
Type: PWR Pri Volt: 34400 Sec Volt: 480/240 Prot:
Imped: 04.90 Imped Dt: 03 06 1986 Accessories: Pol: S
Oil Volume (gals): 0.0 PCB PPM: 000001 PCB Dt: 12 31 1999
Salvage Bid: Salvage Dt:
Rmk:
Matl Cd: Rcvd Dt: Failure Comp: Cause:
Cntrct: Cntrct Yr: Mfg PCB less than 2:
Manifest: Disposal Dt: Wst Char Dt:

Install Auth	Sta Nbr	Install Dt	Remove Auth	Remove Dt	Spc Srv
CHANGES P.S.	IS0403-03	10/08/2001			N
21-51181	IS0412-03	05/12/1979	LCJ51-14415	02/18/1984	N
20030	IS0671-01	02/27/1961	51-52665	04/27/1978	Y

PF1=Main Menu PF2=Xfmr Menu PF3=Select Scr PF4=Clear Scrn PF5=PCB Tests
PF6=Elec Tests PF7=Prev Xfmr PF8=Next Xfmr PF9=Sta Data PF10=Xfmr Hist
PF11=Actv/Inactv Xfmr PF13=Cut Hist PF14=Gases Test PF15=PCB/Retro

LTERM: TPXGR797 Last Change: XPDDCGA 1990-05-19-11.51.51.255833

07/25/17 POWER DISTRIBUTION FACILITIES MANAGEMENT NF340401-V06
13:36:02 TRANSFORMER RECORD DATA
Mode: R

Cut Pending To:
Tr Rec: 76573 A Dspl EPA: Dest Dt:
KVA Size: 000333.0 - 000333.0 Mfg: CTC Serial: 4942-3-2 Phase: 1
Type: PWR Pri Volt: 34400 Sec Volt: 480/240 Prot:
Imped: 04.88 Imped Dt: 09 09 1909 Accessories: Pol: S
Oil Volume (gals): 0.0 PCB PPM: 000465 PCB Dt: 12 31 1999
Salvage Bid: Salvage Dt:
Rmk: DUMMY IMPED DATE
Matl Cd: Rcvd Dt: Failure Comp: Cause:
Cntrct: Cntrct Yr: Mfg PCB less than 2:
Manifest: Disposal Dt: Wst Char Dt:

Install Auth	Sta Nbr	Install Dt	Remove Auth	Remove Dt	Spc Srv
CHANGES P.S.	IS0403-02	10/08/2001			N
23784	IS0478-01	02/21/1960	LCJ61-014833	06/01/1986	N

PF1=Main Menu PF2=Xfmr Menu PF3=Select Scr PF4=Clear Scrn PF5=PCB Tests
PF6=Elec Tests PF7=Prev Xfmr PF8=Next Xfmr PF9=Sta Data PF10=Xfmr Hist
PF11=Actv/Inactv Xfmr PF13=Cut Hist PF14=Gases Test PF15=PCB/Retro

LTERM: TPXGR797 Last Change: XTHEMMI 1993-06-01-16.20.49.991112

```
07/25/17          POWER DISTRIBUTION FACILITIES MANAGEMENT         NF372701-V04
13:59:35          TRANSFORMER PCB TEST / RETROFILL TRACKING
Rec #:  76705   Sta: IS0403-03        Spc Srv: N  Maps: 431        431
Loc: 5461 WINNETKA AV                                   Dist: CP
                                                        Install: 10/08/2001
Pole:              (   )  Vlt/Pad: PAD OUTDOOR      BNK: 01  02   PLL:
Mfg: CTC CENTRAL TRANSFORMER             Ser: 4942-3-6         KVA: 000333.0
Sec Volt: 480/240           Gallons: 00000.0
Mode:    Sample Dt: 11/1984  1 Test Dt: 31/1999    Lowest PCB PPM: 000001 <2: 0
         Lab ID:      Lab Rpt #:          Cnt #:        P  Sample #: 2538
Retrofill Recommendation:        1=No Action, 2=Remove, 3=Retrofill On-Site
                                 4=Retrofill Off-Site

Fnc Retfill Dt Cntrct  50C Resample Dt PPM    <2 Lab  Rpt #  Sample #  Cntrct


                                                                   XP CGA 1990
Cmnt:


PF1/2=Xfmr/Test Menu  PF3=Upd Xfmr  PF4=Prc PCB  PF5=Prc Retro  PF6=Upd Recom
PF9=Xfmr Recd         PF10=PCB Test
NFTR603  Record retrieved.
Lterm: TPXGR797   Last Change: -05-19-1  1.51.51.255833
```

Los Angeles City Fire Department

Telephone (213) 978-3691
Email: LAFDrfi@lacity.org
200 N. Main St., 17th Fl., Los Angeles, CA 90012

Request for Information
Hazardous Materials Records

***COMPLETE ONE FORM FOR EACH ADDRESS/FACILITY**

Request Date: _____

Requester's Name:_____ Email: _____

Company/ Agency: _____ PH.#: _____

Address: _____ Unit/Ste.: _____

City: _____ State: _____ Zip: _____

Information is requested for

PLEASE NOTE: YOU MUST PROVIDE A FACILITY ID # FOR ACTIVE/INACTIVE RECORDS.
VISIT http://www.lafd.org/public-records TO VIEW LIST OF ALL HAZARDOUS MATERIALS RECORDS.

Check all that apply: ☐ Inventory Summary ☐ Review File

Facility ID No: _____

Storage Address: _____ Unit/Ste.:_____

City: _____ Zip: _____

Reason for Request: _____

FOR OFFICE USE ONLY

☐ **NO INFORMATION ON FILE**
☐ **HARD FILE DESTROYED**
☐ **INFORMATION AVAILABLE**

Fee Schedule:
*Inventory Summary** x $11.00

Facility I.D. No.: _____

Request Review File Copies:

Request No.: _____

Initial Fee* $ 1.10

Processed Date: _____

# of pgs. _____x $0.10 = $_____

APPT. TO REVIEW FILE: _____

*Per Facility ID

Processor Signature:_____

TOTAL: $_____

Allow 10 working days for processing:

Cathy Nero

From: WB-RB4-PublicRecords <RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov>
Sent: Wednesday, July 26, 2017 3:37 PM
To: Cathy Nero
Cc: WB-RB4-PublicRecords
Subject: Public Records Request / Tracking 2017071807
Attachments: LARWQCB-RequestForm(All).pdf

********* Please submit future file review requests to the LARWQCB via e-mail to RB4-publicrecords@waterboards.ca.gov.*********

Thank you for your request to review Regional Board records concerning the property on:

- 5461 Winnetka Avenue, Woodland Hills, CA 91364

The Regional Board has reviewed its files and has concluded that it does not have any records that are responsive to your request.

Thank you,

Clarita Quidilla

Los Angeles Regional Water Quality Control Board

From: Cathy Nero [mailto:cnero@placeworks.com]
Sent: Tuesday, July 18, 2017 10:14 AM
To: WB-RB4-PublicRecords <RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov>
Subject: File Review Rqst - LASD1-32.3

PlaceWorks, an environmental consulting firm, is performing a Phase I Environmental Assessment (Phase I ESA) for a property in the City of Los Angeles, California. In accordance with your prescribed protocol for agency information requests, we would like you to provide any information you may have for the property described in the attached letter/form. Please direct your response and any questions to my attention:

CATHY NERO
Administrative Assistant

700 S. Flower Street, Suite 600, Los Angeles, CA 90017
213.623.1443 | cnero@placeworks.com | placeworks.com

PLACEWORKS

From:	DPH-phicor
To:	Robyn Chaconas
Subject:	FW: File Review Rqst - BSS-06.0
Date:	Thursday, September 14, 2017 2:10:15 PM
Attachments:	PHI-Rqst.pdf

Hello,

As of 7/1/17, all Hazardous Material report requests are being handled by the Los Angeles County Fire Department, Health Hazmat Division. Please go to their website for information on submitting a record request: https://www.fire.lacounty.gov/hhmd/public-records-requests/. You may also contact them via email at fire-hhmdpra@fire.lacounty.gov or by phone at (323) 890-4045.

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/

From: Robyn Chaconas [mailto:rchaconas@placeworks.com]
Sent: Thursday, September 14, 2017 12:15 PM
To: DPH-phicor <phicor@ph.lacounty.gov>
Subject: File Review Rqst - BSS-06.0

PlaceWorks, an environmental consulting firm, is performing a Phase I Environmental Assessment (Phase I ESA) for a property in the City of Los Angeles, California. In accordance with your prescribed protocol for agency information requests, we would like you to provide any information you may have for the property described in the attached letter/form. Please direct your response and any questions to my attention:

Thank you for your assistance.

ROBYN CHACONAS
Project Engineer

700 S. Flower Street, Suite 600, Los Angeles, CA 90017
213.623.1443 | rchaconas@placeworks.com | placeworks.com

RESPONSE TO PUBLIC RECORDS REQUEST

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT BOULEVARD, ALHAMBRA, CA 91803

Cathy Nero
Placeworks
cnero@placeworks.com
213-623-1443

Date: 07/27/2017

RESPONSE IN CONNECTION WITH YOUR PUBLIC RECORDS ACT REQUEST – CATHY NERO, NO. 2927

We have reviewed your Public Records Act request received on July 18, 2017 and we offer the following:

☐ Attached are records responsive to your request. Please see remarks for further information.

☐ We have reviewed our files and collected the records you requested. Please see remarks for further information.

☑ **After a thorough and diligent search, we failed to find any records that satisfy your request. Please see remarks for further information.**

Remarks:

The County of Los Angeles Department of Public Works offers the following in response to your request for any and all records for 5461 Winnetka Avenue, Woodland Hills, CA 91364:

- Please refer your request to the CITY of Los Angeles.

For more information regarding this response, please contact:

Yiu (Tommy) Lau
Claims & Litigation Section
Survey/Mapping & Property Management Division
Phone: (626) 458-7114
Fax: (626) 979-5408
Email: tlau@dpw.lacounty.gov
Office Hours: Monday through Thursday, 7 a.m. – 5:00 p.m.

Appendix J. Environmental Lien and AUL Report and User Questionnaire

5461 WINNETKA AVE
5461 WINNETKA AVENUE
WOODLAND HILLS, CA

Inquiry Number: 4967315.7S
JUNE 19, 2017

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

5461 WINNETKA AVE
5461 WINNETKA AVENUE
WOODLAND HILLS, CA

RESEARCH SOURCE

Source 1: LOS ANGELES COUNTY RECORDER OF DEEDS

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Title is vested in:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Miscellaneous Comments:	NO DEED IMAGE. LOS ANGELES UNIFIED SCHOOL DISTRICT ACQUIRED TITLE PRIOR TO 1980.

Legal Description:	AS RECORDED IN THE DEED BELOW
Current Owner:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Property Identifiers:	2166-042-902
Comments:	NA

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	
Miscellaneous:	

MISCELLANEOUS

Type of Instrument:	NONE IDENTIFIED
1st Party:	
2nd Party:	
Date Recorded:	
Instrument #:	
Book:	
Page:	
Comments:	

Appendix K. Resume of Report Preparer

ERIC B. LONGENECKER, PE

Senior Engineer

Eric has more than 25 years of technical and management experience in the areas of civil and environmental engineering, construction, and project management. His extensive environmental experience includes site assessment, selection of environmental alternatives, design of soil and groundwater treatment systems, testing of soil vapor, implementation of Removal Action Workplans and Remedial Action Plans. Eric has successfully obtained site closures from the Department of Toxic Substances Control, Regional Water Quality Control Board, and various fire departments. He has managed infrastructure construction in areas with active California Fish and Wildlife, Army Corps of Engineers 404, and Oak Tree Ordinance permits. He has also managed mass grading; placement of miles of storm drain, sewer, and water lines; and associated curbs, gutter, and pavement.

PRIOR EXPERIENCE

CIVIL ENGINEERING

» Porter Ranch, mass grading plan and tract maps | Chatsworth CA
» Rancho Vista Golf Course, mass grading plan and tract maps | Lancaster CA
» Residential and commercial precise grading plans I Throughout Southern CA

DEMOLITION

» Complete aerospace facility for airport expansion I Burbank CA
» Dozens of homes for new high school I Maywood CA
» Five high school industrial arts buildings I Los Angeles CA

SITE REMEDIATION

» Combined soil, soil vapor, and groundwater treatment system with catalytic oxidizer and air stripping tower for new elementary school I Los Angeles CA

GROUNDWATER REMEDIATION

» Pump and treat system for new elementary school I Los Angeles CA
» Application of oxygen releasing compound for hydrocarbons for new elementary school I Los Angeles CA
» Application of hydrogen releasing compound for chlorinated compounds for new elementary school I Los Angeles CA
» High vacuum dual phase extraction pilot test at active elementary school | Los Angeles CA

CONSTRUCTION MANAGEMENT

» Grading (with blasting) and infrastructure, 90 residential lots, Jack Nicklaus Bear's Best golf course I Thousand Oaks CA
» 1.6-million-gallon water tank I Simi Valley CA
» Box culvert on vibrated stone columns across Arroyo Simi I Simi Valley CA
» Wicker drains to enhance settlement I Simi Valley CA
» Sewer pump station I Thousand Oaks CA
» 198-lot residential development I Simi Valley CA
» 74-lot residential development I Palmdale CA
» Topanga Canyon Blvd. Major Modifications I Chatsworth CA

EDUCATION

» MS, Engineering Management
California State University, Northridge

» BS (cum laude), Civil Engineering
California State University, Northridge

REGISTRATIONS

» California Professional Engineer
No. C049357

CERTIFICATIONS

» OSHA 10-Hour Construction Health & Safety
» HAZWOPER 40-Hour Worker
» HAZWOPER Supervisor

AFFILIATIONS

» American Society of Civil Engineers
» Many Mansions Committee for Affordable Housing

Team member since 2016

PLACEWORKS

ERIC B. LONGENECKER

Senior Engineer

elongenecker@placeworks.com

STORM WATER POLLUTION PREVENTION

» Kept plan up to date and installed BMPs during 100-year storm season I Simi Valley CA
» Numerous SWPPPs | Southern CA
» Numerous Standard Urban Stormwater Mitigation Plans I Los Angeles County CA

ENTITLEMENTS

» Design of vineyard and residence to create higher value prior to selling to Santa Monica Mountains Conservancy | Los Angeles County CA
» Fair Oaks Ranch Master Plan I Santa Clarita CA
» Chambord (residential subdivision) I Oak Park CA
» Regency Hills (residential subdivision) I Oak Park CA
» Pitts Ranch Master Plan I Camarillo CA
» Lantana Hills (residential subdivision) I Santa Clarita CA
» Successfully permitted, released for bid and managed entire contract to install over a mile of 50-foot tall stream bank protection within six months.

SOIL REMEDIATION

» Vapor Extraction System, new elementary school I Los Angeles CA
» Vapor Extraction System, new high school I Los Angeles CA
» Dig and haul 100,000 cubic yards of soil, expansion of middle school I Los Angeles CA
» Dig and haul 80,000 cubic yards of soil, new high school I Los Angeles CA
» Dig and haul 50,000 cubic yards of soil, redevelopment of existing high school I Los Angeles CA
» Assess, haul, and cap soil, oil field conversion I Santa Clarita CA
» Designed plan to safely excavate lead-impacted soil I Santa Barbara CA
» Dig and haul 80 cubic yards of soil, middle school replacement I Los Angeles CA
» Dig and haul 20 cubic yards of soil, school replacement I Los Angeles CA

PHASE I INVESTIGATIONS

» High school modernization I Sun Valley CA
» Middle school portable removal/new construction I Los Angeles CA

PHASE II INVESTIGATIONS

» High school modernization I Sun Valley CA
» High school modernization I Los Angeles CA
» Middle school portable removal/new construction I Los Angeles CA

GAS MITIGATION SYSTEMS

» Passive system, new elementary school | Los Angeles CA
» Passive system, new municipal park I Huntington Park CA
» Passive system, middle school expansion I Los Angeles CA
» Passive system, elementary school | Chatsworth CA
» Active system, new elementary school I Los Angeles CA
» Install and monitor soil vapor probes to document off-site source and ability to safely occupy new high school I Los Angeles CA

UNDERGROUND STORAGE TANKS

» Single tank system, lumber yard I Elk Grove CA
» Boiler tank removal, elementary school expansion I Los Angeles CA
» Multiple tank removal, service station I Santa Monica CA

Appendix G

Site Circulation Report

Site Circulation Report

LAUSD SCHOOL MODERNIZATION PROJECT - TAFT CHARTER HIGH SCHOOL

LIN Consulting, Inc.

Traffic, Civil, and Electrical Consulting Engineers

Prepared by:
LIN Consulting, Inc.

For:
ESA
Los Angeles Unified School District

October 11, 2018

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1.0 INTRODUCTION

The purpose of this report is to document existing circulation conditions at Taft Charter High School (Taft HS), located at 5461 Winnetka Avenue in the Los Angeles Unified School District's (LAUSD) Local District Northwest in the Woodland Hills community of the City of Los Angeles. This report summarizes existing circulation conditions, including observed and anecdotal circulation operations, for use in the facilities planning and design process for the Taft HS Comprehensive Modernization Project.

Observations include conditions and operations at adjacent intersections and roadway segments, internal parking lots, external parking lots, and identified or reported issues. Other existing conditions recorded are general vehicular travel (including pick-up/drop-off operations), school bus, parking, transit, pedestrian, and bicycle activity. To aid this process, a safety audit (with an emphasis on walking) was performed within the campus and as well as on the immediately surrounding streets. The audit encompasses positive and negative site circulation attributes observed during field visits from a professional civil engineering perspective. Walkability, accessibility, visibility, and safety of pedestrians and bicyclists around the perimeter of the school are some of the major site circulation elements that were evaluated. A follow-up interview regarding access, egress and ingress, and circulation at the school was conducted with Taft HS administration, including Assistant Principal Rosie Bates, on May 18, 2018.

This report concludes with observed deficiencies, major operational and/or circulation issues, and offers potential opportunities for improvements to site access and/or onsite circulation at Taft HS that can be explored further in the facilities planning process for the Taft HS Comprehensive Modernization Project, as well as other future projects. ***Appendix A*** includes notes from the field review conducted on May 1, 2018, and ***Appendix B*** includes notes from the walk audits conducted on the same date. Selected photos depicting conditions described in this report are included in ***Appendix C***. ***Appendix D*** provides additional information on circulation, such as traffic counts on record or suggested routes to school maps.

1.1 School and Neighborhood Description

Taft HS is an Affiliated Charter school that operates as part of LAUSD school district. The Taft HS campus is located in the community of Woodland Hills, within the City of Los Angeles. Taft HS first opened its doors to students in 1960. Single-family residential and limited commercial zones surround the immediate area of Taft HS. Taft HS, through open enrollment and magnet program, attracts many students outside the geographical service area. As of the 2017-2018

school year, Taft HS serves a total of 2,400 students. While the exact number has not been verified in this report, during the administration interview, Assistant Principal Bates noted that approximately one-third of students arriving at Taft HS via school bus and public buses live within the geographical borders of the school, while the remaining two-thirds live outside of the geographical borders.

Taft HS offers several academic programs as well as a new Gifted and Highly Gifted STEAM Magnet program that attract students from outside of the established geographical border of Taft HS.

A student parking lot (also used for overflow during events) is located on the east side of Winnetka Avenue, directly across from the school, and south of a Ralph's grocery store.

Within the campus of Taft HS, two other small schools operate:

IVY ACADEMIA ENTREPRENEURIAL CHARTER SCHOOL

Ivy Academia Entrepreneurial Charter School is a private school that leases property for Transitional Kindergarten through 6th grade classrooms within the Taft HS campus. The facility is comprised of portable modular buildings located on the far western end of the property. The number of enrolled students is 422, per the school's 2016-17 Student Accountability Report Card (SARC)[1]. Taft HS administration noted during the interview, that it is scheduled to relocate off of the Taft HS campus by 2019 . Ivy Academia Entrepreneurial Charter School has the same start time and different dismissal time as Taft HS.

THOREAU CONTINUING EDUCATION HIGH SCHOOL

Thoreau Continuing Education High School is a continuation school that currently houses grades 9 through 12. It is located immediately northeast of the Taft HS student parking lot, and shares parking with this lot. According to the 2017-18 Single Plan for Student Achievement (SPSA), it currently has 3 teachers and 1 administrator, with 103 students enrolled in the day program and 120 students during the night school program.[2] According to Taft HS administration, because students arrive by Metro bus, few vehicles from Thoreau HS require use of the student parking lot, especially during normal school hours. Thoreau HS does not have the same start and dismissal time as Taft HS.

---

[1] *California Department of Education: Ivy Academia. Student Accountability Report Card (California: Los Angeles, 2016-2017)*
[2] *Los Angeles Unified School District: Taft CHS. Single Plan for Student Achievement (California: Los Angeles, 2017-2018), 9-10*

2.0 TRANSPORTION NETWORK

2.1 Streets and Intersections

The Taft HS main campus is generally bounded by Santa Rita Street to the south, Winnetka Avenue to the east, Del Moreno Drive to the west, and Ventura Boulevard to the north. The main campus gates faces are located along the Winnetka Avenue frontage, with the main faculty and administration parking lot accessible from both Ventura Boulevard and Winnetka Avenue (referred to as the "main parking lot"). The student parking lot is accessible via two gated entrances on Santa Rita Street. Roadway characteristics, including roadway classifications identified in the City of Los Angeles *Mobility Plan 2035*[3], for study area roadways are provided below.

STUDY AREA ROADWAYS

Winnetka Avenue is a north-south roadway classified as a Collector street with one travel lane in each direction and a center turn lane within the school zone. There are no parking regulations along the west side of the street bordering the school faculty parking lot. South of the entrance to the faculty lot, stopping is not permitted for approximately 100 feet. However, there is a no parking zone between 7:00 am to 5:00 pm during school days, further south to approximately 200 feet north of Santa Rita Street. The remaining length of Winnetka Avenue south to Santa Rita Street is marked with red curb, indicating that parking or stopping is not permitted at any time. On the east side of the street, stopping is not permitted at any time. The posted speed limit is 30 mph, and 25 mph when children are present in accordance with California Vehicle Code §22352.

Ventura Boulevard is an east-west roadway classified as a Boulevard II with three travel lanes in each direction and a center turn lane within the school zone. The posted speed limit is 40 mph within the school zone, and 25 mph when children are present in accordance with California Vehicle Code §22352. Two-hour curb parking is permitted on the north side of the street between 8:00 am to 8:00 pm except Sundays. No stopping or parking is permitted on the south side between 7:00 am and 5:00 pm during school days, except along the school's faculty parking lot, where no stopping is permitted at any time.

Santa Rita Street is an east-west roadway classified as a Local (standard) street with one travel lane in each direction within the school zone. There is no posted speed limit. There are

[3] *Los Angeles Department of City Planning. Mobility Plan 2035 (California: Los Angeles, 2016)*

speed humps located along the street between Armida Drive and Winnetka Avenue, with an advisory speed of 15 mph.

Between Del Moreno Drive and Armida Drive on the north side of the street, 2-hour parking is permitted between 8:00 am to 6:00 pm except Saturdays and Sundays, and prohibited on Fridays between 12:00 pm to 2:00 pm for street sweeping. On the south side of the street, two-hour parking is permitted between 8:00 am to 4:00 pm except Saturdays and Sundays (although signs are inconsistent on the end of 2-hour parking), and parking is prohibited on Mondays between 12:00 pm to 2:00 pm for street sweeping.

Between Armida Drive and Winnetka Avenue on the north side of the street, parking is prohibited between 7:00 am to 5:00 pm except Saturdays and Sundays, and all day on Fridays between 12:00 pm to 2:00 pm for street sweeping. Two-hour curb parking is allowed between 8:00 am to 6:00 pm during school days. Passenger loading is permitted during school days between 6:30 am to 9:00 am, and 1:30 pm to 4:00 pm, west of the faculty parking lot to Armida Drive. Inconsistent parking regulations also exist in this location, where signs state that 2-hour parking is permitted on school days between 9:00 am to 1:30 pm. On the south side of the street, parking is prohibited between 8:00 am to 6:00 pm during school days.

East of Winnetka Avenue on the north side of the street, parking is prohibited between 7:00 am to 5:00 pm during school days, and all day on Fridays between 12:00 pm to 2:00 pm for street sweeping. On the south side of the street, parking is prohibited between 7:00 am to 5:00 pm during school days, and all day on Mondays between 12:00 pm to 2:00 pm for street sweeping.

Del Moreno Drive is a north-south roadway classified as a Local (standard) street with one travel lane in each direction within the school zone. There is no posted speed limit. There are speed humps located along the street, with an advisory speed of 15 mph. Two-hour curb parking is permitted from 8:00 am to 4:00 pm along the south side of the street. There are no parking restrictions on the north side of the street. This roadway provides no vehicular or pedestrian access to Taft HS and primarily serves residential traffic.

STUDY AREA INTERSECTIONS

Ventura Boulevard & Del Moreno Drive is a signalized T-intersection operating under semi-actuated signal phasing. The intersection has a permissive left turn for the westbound approach (Ventura Boulevard), a protected left for the northbound approach (Del Moreno Drive) and prohibits left turns for the eastbound approach. All approaches prohibit U-turns, except for the

northbound approach. Pedestrian phase recall occurs along Del Moreno Drive and all approaches have crosswalks.

Ventura Boulevard & Winnetka Avenue is a signalized intersection with a protected left turn signal phase for eastbound Ventura Boulevard, and protected-permissive signal phase for westbound with a right turn overlap phase. The northbound approach of Winnetka Avenue has permitted left turns, and the southbound approach has protected left turns with a right turn overlap phase. All approaches prohibit U-turns, except for the westbound approach (Ventura Boulevard). The intersection operates under semi-actuated signal timings, with Ventura Boulevard as the coordinated street. Pedestrian phase recall occurs along Ventura Boulevard, and all approaches have crosswalks.

Winnetka Avenue & Santa Rita Street is a signalized intersection operating under semi-actuated signal phasing. The intersection has permissive left turns for all four approaches. Pedestrian phase recall occurs along Santa Rita Street, with all approaches having crosswalks.

Quakertown Avenue & Santa Rita Street is an unsignalized intersection with stop control on all movements.

Santa Rita Street & Lorenzana Drive is an unsignalized T-intersection with stop control on Lorenzana Drive.

Santa Rita Street & Del Moreno Drive is an unsignalized T-intersection with stop control for all approaches.

Specific characteristics of each intersection, including lane configurations, can be found in ***Appendix A***.

2.2 Transit

Metro and Antelope Valley Transit Authority (AVTA) are the two transit operators that provide public transit access to Taft HS. Bus transit stops and services (operators and routes) provided adjacent to Taft HS are as follows:

- Ventura Boulevard
  - Southwest corner of Ventura Boulevard
    - Metro 150 (eastbound), Metro 750 (eastbound)
  - Southeast corner of Ventura Boulevard
    - AVTA 787 (eastbound)
    - Metro 242 (eastbound)

- Northwest corner of Ventura Boulevard
  - AVTA 787 (westbound)
  - Metro 750 (westbound)
- Northeast corner of Ventura Boulevard
  - Metro 150 (westbound), Metro 242 (westbound)

Assistant Principal Bates noted that most Taft HS students live outside of the geographical area and use the Metro buses as their primary mode of transportation to and from school.

2.3 Bicycle and Pedestrian Facilities

There are no exclusive bicycle lanes located within the school zone, with bicyclists sharing the sidewalk with pedestrians, or the roadway with vehicles.

Sidewalks exist on both sides of Ventura Boulevard and Winnetka Avenue within the school zone. Sidewalks exist on Santa Rita Street, but only on the north side. Sidewalks exist on both sides of Del Moreno Drive, but terminates on the west side approximately 500 feet south of Ventura Boulevard.

Assistant Principal Bates noted in the administration interview that few students walk or bike to school. Bike racks with a capacity of approximately 30 bicycles are provided near the magnet school; during the field visit, 10 bicycles were counted.

2.4 Parks and Other Recreational Facilities

Corbin Canyon Park is approximately 1.2 miles south of Taft HS, and Serrania Park is approximately 1.2 miles southwest of Taft HS.

2.5 Congestion Locations

During the morning drop off period, queues of approximately 700 feet were observed for the southbound travel direction and approximately 400 feet for the northbound travel direction of Winnetka Avenue from Ventura Boulevard at Santa Rita Street. The southbound queue was primarily due to the number of parents dropping off students at the west side of Winnetka Avenue, south of Ventura Boulevard. The northbound queue was primarily due to the traffic signal at the intersection of Winnetka Avenue and Ventura Boulevard. Parents dropping off students along the west side of Winnetka Avenue were observed to frequently block southbound through vehicles, including performing U-turns near Santa Rita Street to avoid using Santa Rita Street and returning via Del Moreno Drive or Quakertown Avenue.

During the afternoon pick up period, queues of approximately 600 feet were observed on northbound Winnetka Avenue at Ventura Boulevard. This is due primarily to vehicles turning right from the student parking lot onto Santa Rita Street heading toward Ventura Boulevard.

Appendix D contains traffic counts that were obtained from the City of Los Angeles Department of Transportation (LADOT) *NavigateLA* database.

3.0 SCHOOL OPERATIONS

3.1 Parking

At the Taft HS main campus, there are a total of four parking lots that consists of one main lot used by faculty and visitors (P-1), two internal faculty lots (P-4 adjacent to Santa Rita Street, and P-3 inside central campus), and one student lot (P-2). Three ADA stalls (P-5) were incorporated as part of the ADA Barrier Removal at Football Field Area project in 2016 along the blacktop fencing near the basketball courts. These lots are shown graphically in ***Appendix D***.

The main lot (P-1), located on the southwest side of Winnetka Avenue and Ventura Boulevard, contains 218 marked spaces with 7 standard and 1 van-accessible ADA spaces. The easternmost parking row is generally reserved for visitors (although no signage indicates this). The parking lot can be accessed via gated entrances on Ventura Boulevard and Winnetka Avenue. Gates along Ventura Boulevard are locked and/or a security guard is stationed at these locations. During the day, the only vehicular access to the campus is from Winnetka Avenue. Left turns from the parking lot onto Winnetka Avenue are prohibited (except for buses).

The first faculty lot (P-4), located north of Santa Rita Street, contains 37 unmarked parking spaces and 1 standard and 1 van-accessible marked ADA space. This parking lot can be accessed via an internal service road, and via a gated entrance on Santa Rita Street. The gates to and from the service road are locked during school hours.

The second faculty lot (P-3), located in the center of campus, contains 17 spaces with 1 standard and 1 van-accessible ADA space. The parking lot can be accessed via a gated entrance inside the first faculty lot, and via a gated entrance on an internal service road. The gates to and from the service road are locked during school hours.

The student lot (P-2), located on the northeast side of Winnetka Avenue and Santa Rita Street, contains 288 marked spaces with no ADA spaces. The parking lot can be accessed via two gated entrances on Santa Rita Street.

During the field visit, which was conducted during school hours, it was noted that the parking utilization at the main lot was less than 50%. The faculty lot off of Santa Rita Street was between 50% and 75% utilized. The lot in the center of campus was utilized between 50% and 75%, with at least three vehicles parked illegally along red curb near the gym. The student lot at the northeast corner of Winnetka Avenue and Santa Rita Street was utilized between 50% and 75%.

3.2 Circulation

There are designated or signed pick-up/drop-off areas at various locations around Taft HS. The main designated pick-up/drop-off area is along the west side of Winnetka Avenue and the north side of Santa Rita Street, where parents park along the curb. This creates queues of approximately 700 feet on Winnetka Avenue and approximately 500 feet on Santa Rita Street for vehicles trying to pick-up/drop-off students along both streets. In addition, it was observed that some students were dropped-off/picked-up in the nearby Ralph's grocery store parking lot, creating additional congestion for customers attempting to access the grocery store parking lot. During the morning bell period there is a queue of approximately 400 feet on northbound Winnetka Avenue leading up to the intersection of Ventura Boulevard and Winnetka Avenue. Some parents make an illegal left turn from the school's faculty parking lot (P-3) to Winnetka Avenue as well as illegal U-turns along Winnetka Avenue after dropping off students near Santa Rita Street. During the afternoon bell period, parents park on both sides of Santa Rita Street. There is a queue of approximately 600 feet on northbound Winnetka Avenue because a number of students exit the campus through the student parking lot (P-2) at the end of the day. According to Assistant Principal Bates, drivers tend to gravitate toward Ventura Boulevard, but no other distinguishable pattern was noted.

High volumes of vehicles coming out of parking lots create delay to vehicle flow and conflicts with pedestrians (primarily students leaving the campus). The permissive left turn phasing in all directions for Winnetka Avenue and Santa Rita Street creates delay for the through movements and also creates difficulty for pedestrians crossing the intersection. Of particular note is that the valley gutter[4] across the south leg of the intersection causes a steep vertical grade angle point, which results in vehicles slowing down to avoid damaging their vehicles. This slowdown also

[4] A valley gutter is a surface drainage structure placed laterally along a roadway at the curb flow line, channeling surface storm water flow through an intersection. This often occurs where the drainage pattern can only be established in one particular direction, such as a roadway crossing another roadway that is on a grade. Where heavy flow is anticipated during storm events, valley gutters are sometimes designed deep, resulting in a large vertical grade break for the cross street that is uncomfortable to drive at posted speeds, and can cause low floor vehicles to strike the pavement underneath.

contributes to congestion at this location. Overall, the general circulation pattern is of a clockwise loop around the school starting from Ventura Boulevard through Winnetka Avenue through Santa Rita Street through Del Moreno Drive and finally back to Ventura Boulevard.

Pick-up/drop-off operations at the two schools co-located on the Taft HS campus (Ivy Academia Entrepreneurial Charter School and Thoreau Continuing Education High School) did not appear to cause delay for the pick-up/drop-off operations at Taft HS. The pick-up/drop-off location for Ivy Academia Entrepreneurial Charter School is at the far west end of Santa Rita Street. Additionally, the dismissal times for both schools are different from Taft HS.

School buses drop off and pick up students along the internal gated service drive between the main lot (P-1) and the central faculty lot (P-3), which are both connected to the main campus internally. Students also use this service drive as their main route for circulating between distant buildings such as the gym. A sidewalk lines the south side of the service drive, but is discontinuous on the north side, which creates a potential conflict between vehicular and pedestrian traffic.

Many students were observed using public transportation along Ventura Boulevard. These students, along with those that are dropped off by private vehicles along Ventura Boulevard or within the main faculty/visitor lot (P-1), walk through the main faculty/visitor lot (P-1) spread throughout, with no separation between vehicles and pedestrians.

3.3 Crash History

Crash data used for the Vision Zero project was extracted within the Taft HS school zone.[5] Between 2013 and 2016, a total of 63 crashes occurred. Forty-three of these crashes were at the heavily traveled intersection of Winnetka Avenue and Ventura Boulevard, and do not appear to be directly related to Taft HS. Seventeen of these occurred at the intersection of Ventura Boulevard and Del Moreno Drive. One collision occurred at the intersection of Del Moreno Drive and Santa Rita Street. One collision occurred at the intersection of Santa Rita Street and Lorenzana Drive. One collision occurred at the intersection of Del Moreno Drive and Reaza Place, which is located halfway between Santa Rita Street and Ventura Boulevard. Within the school zone, 2 pedestrian collisions and 3 bicycle collisions were recorded, all of which resulted in non-severe injuries. No fatalities or severe injuries were recorded. Most collisions were broadside, sideswipes, rear end, or head-on. No discernible collisions patterns were apparent.

[5] http://visionzero.geohub.lacity.org/

4.0 DEFICIENCIES AND OPPORTUNITIES

4.1 Walk Audit Observations

Internal student circulation within the Taft HS campus appears to be generally sufficient. On the exterior sides of the campus, many students walk through the main faculty parking lot and are not separated from vehicular traffic. In addition, the student parking lot does not provide adequate room for pedestrians to safely travel through the parking lot, with no signage nor striping to indicate travel paths for pedestrians. This leads to pedestrians having to share the same road with vehicles, increasing the risk of pedestrian related collisions. Pedestrians using the entire service drive to circulate do not appear to directly conflict with vehicles, as both gates are locked during the school day. Generally, the campus walking experience is open and readily navigated by pedestrians, with abundant shade opportunities No desire lines, which are paths worn by pedestrians within the landscaping showing desired paths of travel, were noted in landscaping areas on campus.

The external walk audit conducted on May 1, 2018, within the school perimeter revealed the following deficiencies:

- Ventura Boulevard
  - Portions of the sidewalks are uneven, cracked, may be difficult to traverse in a wheelchair
  - Conflicts with bicyclists noted due to lack of separate bike lane
- Winnetka Avenue
  - No curb ramps at the intersection of Winnetka Avenue and Santa Rita Street
  - Portions of the sidewalks are uneven, cracked, may be difficult to traverse in a wheelchair
  - Conflicts with bicyclists noted due to lack of separate bike lane
- Santa Rita Street
  - Lack of sidewalk for south side of the street
  - Sidewalk inadequate to service both pedestrians and bicyclists
- Del Moreno Drive
  - Sidewalk inadequate to service both pedestrians and bicyclists

Additional detail from the walk audit is provided in ***Appendix B***. Selected photos for major deficiencies prompted by the walk audit are provided in ***Appendix C***.

4.2 Observed Circulation Deficiencies

- Pick-up/Drop-offs
  - Use of Ralph's parking lot creates congestion for customers. There were no signs noted during the field visit that indicate the Ralph's parking lot is not to be used for pick-ups or drop-offs.
  - Use of Winnetka Avenue creates long queues that block the flow of through traffic
- Parking
  - Limited exits for the student parking lot creates long queues and congestion within the parking lot
- Circulation
  - Poor traffic level of service observed at the Ventura Boulevard and Winnetka Avenue intersection, particularly in both the AM and PM peak period
  - Sidewalks not wide enough to accommodate pedestrians along the intersection of Santa Rita Street and Winnetka Avenue
  - Permissive left-turn phasing for the intersection of Santa Rita Street and Winnetka Avenue creates delay for through movements and creates conflicts for pedestrians crossing the street
  - Illegal left-turns and U-turns along Winnetka Avenue by parents after drop-off/pick-up

4.3 Positive Attributes

- Campus features dedicated student drop-off/pick-up at various locations around campus
- Ample parking spots available for students, faculty, and visitors
- Campus features fences along the border for extra security and as a division between pedestrians and vehicles
- Generally campus is open and readily navigated by pedestrians

4.4 Opportunities

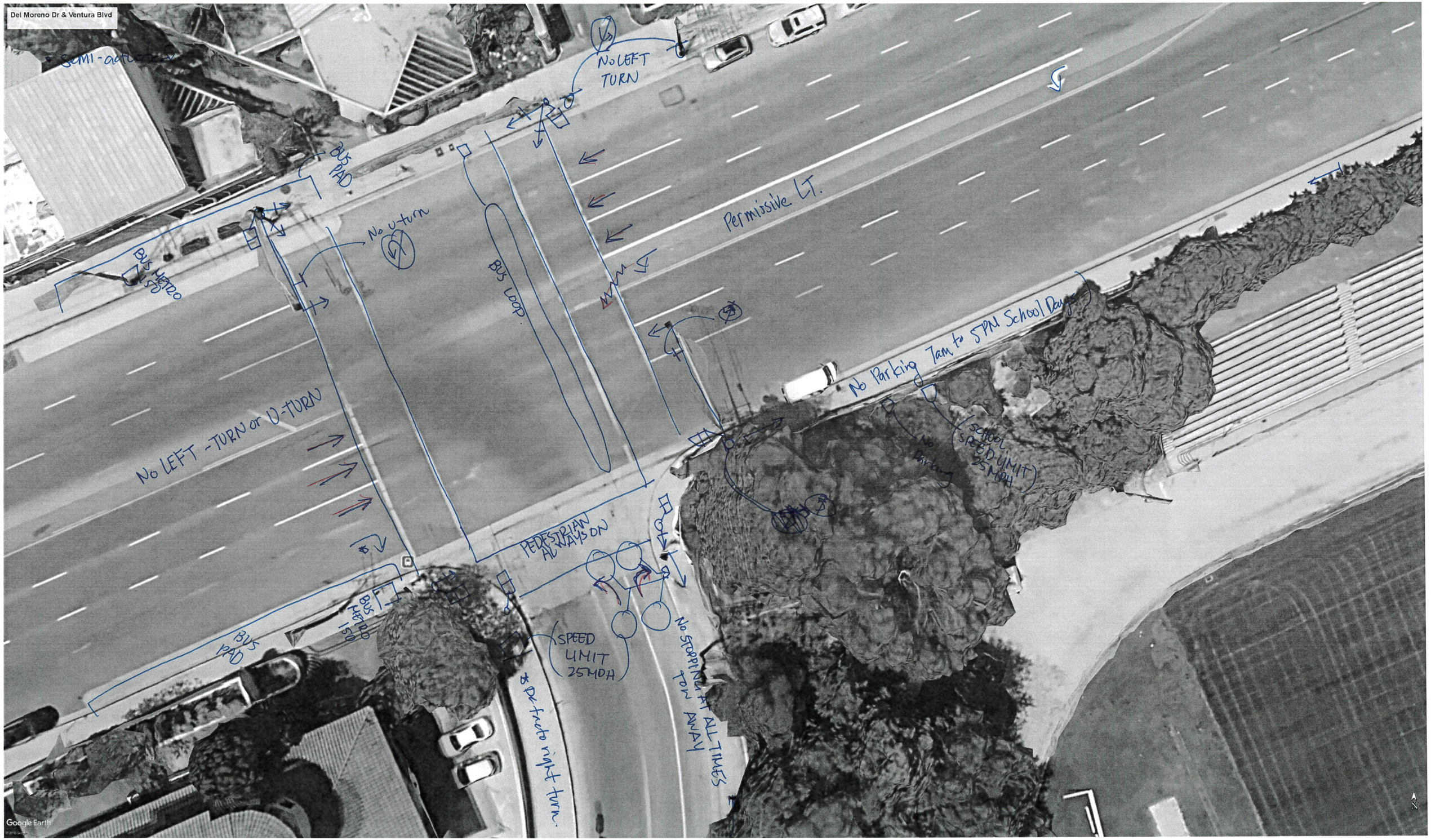
The following opportunities are not required improvements and are not required to limit or mitigate potential impacts. This list is provided solely as observations to LAUSD of the existing conditions that were observed during a site visit for planning purposes. The feasibility or

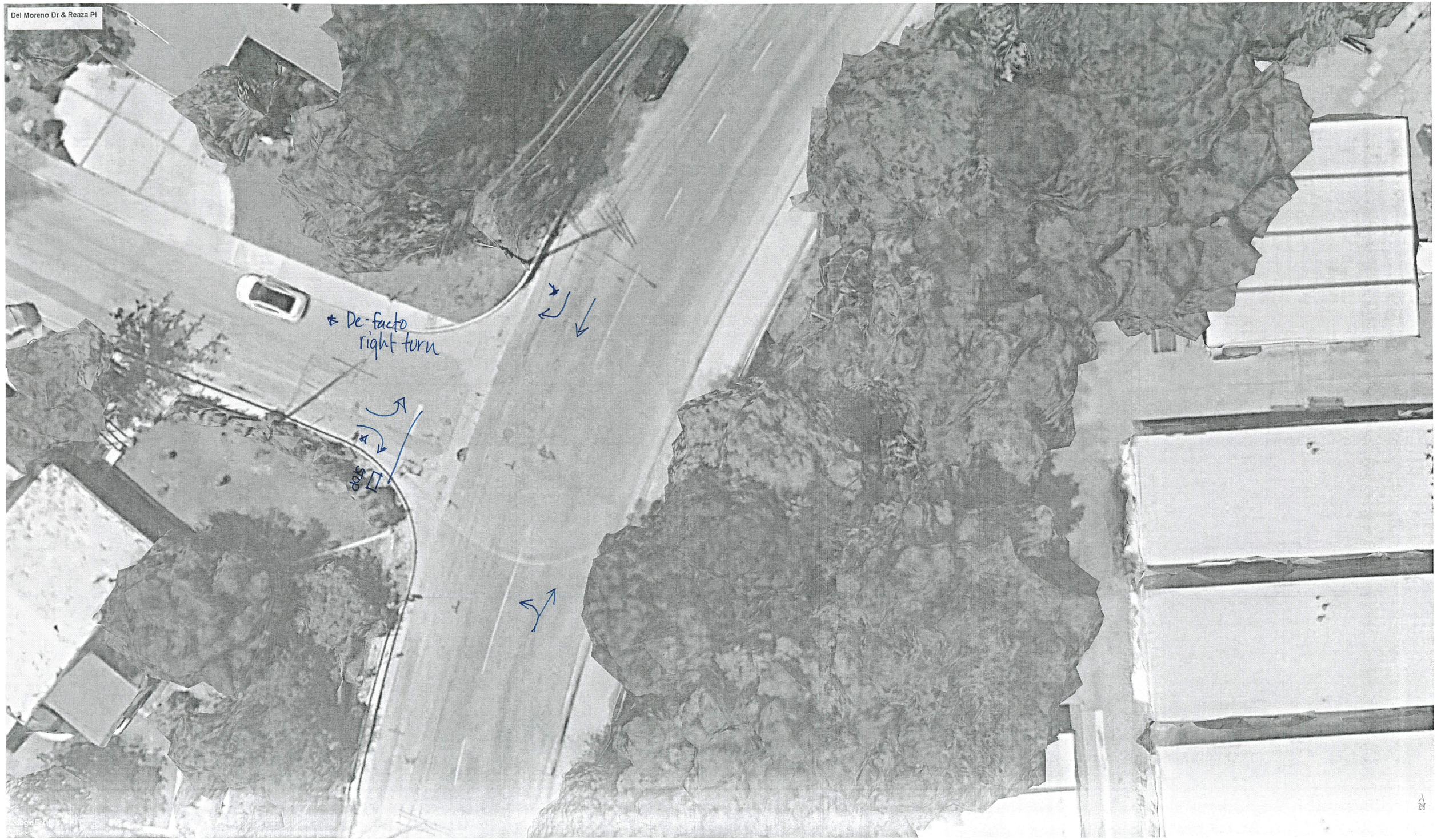
practicality of these opportunities have not been evaluated and LAUSD does not have jurisdiction over any off-site improvements.

- Since the student parking lot abuts three streets (Quakertown Avenue, Winnetka Avenue, and Santa Rita Street), designating directional driveways into and out of the lot, with turn restrictions, would help alleviate traffic queues on Winnetka Avenue
- While off-site improvements are not within LAUSD's jurisdiction, and Quakertown Avenue abuts apartment/condo buildings, this route may be a viable alternative to using Winnetka Avenue, particularly for school traffic to or from the east along Ventura Boulevard
- Another off-site improvement might entail converting the center turn lane on Winnetka Avenue into a median with a pedestrian barrier (e.g., fence, dense shrubs, etc.), which would eliminate U-turns, reduce drop-offs on private property, and eliminate mid-block crossing
- Santa Rita Street may be a more logical location for pick-up/drop-off operations, since the roadway is not heavily traveled. However, it is within a single-family residential neighborhood.
- Onsite, the underutilized main faculty/visitor lot, and student lot, may allow for pedestrian paths to be designated between parking rows to minimize potential conflicts between pedestrians and vehicles.
- The onsite and underutilized student lot may allow for creation of a parent pick-up/drop-off area within the student parking lot facility.

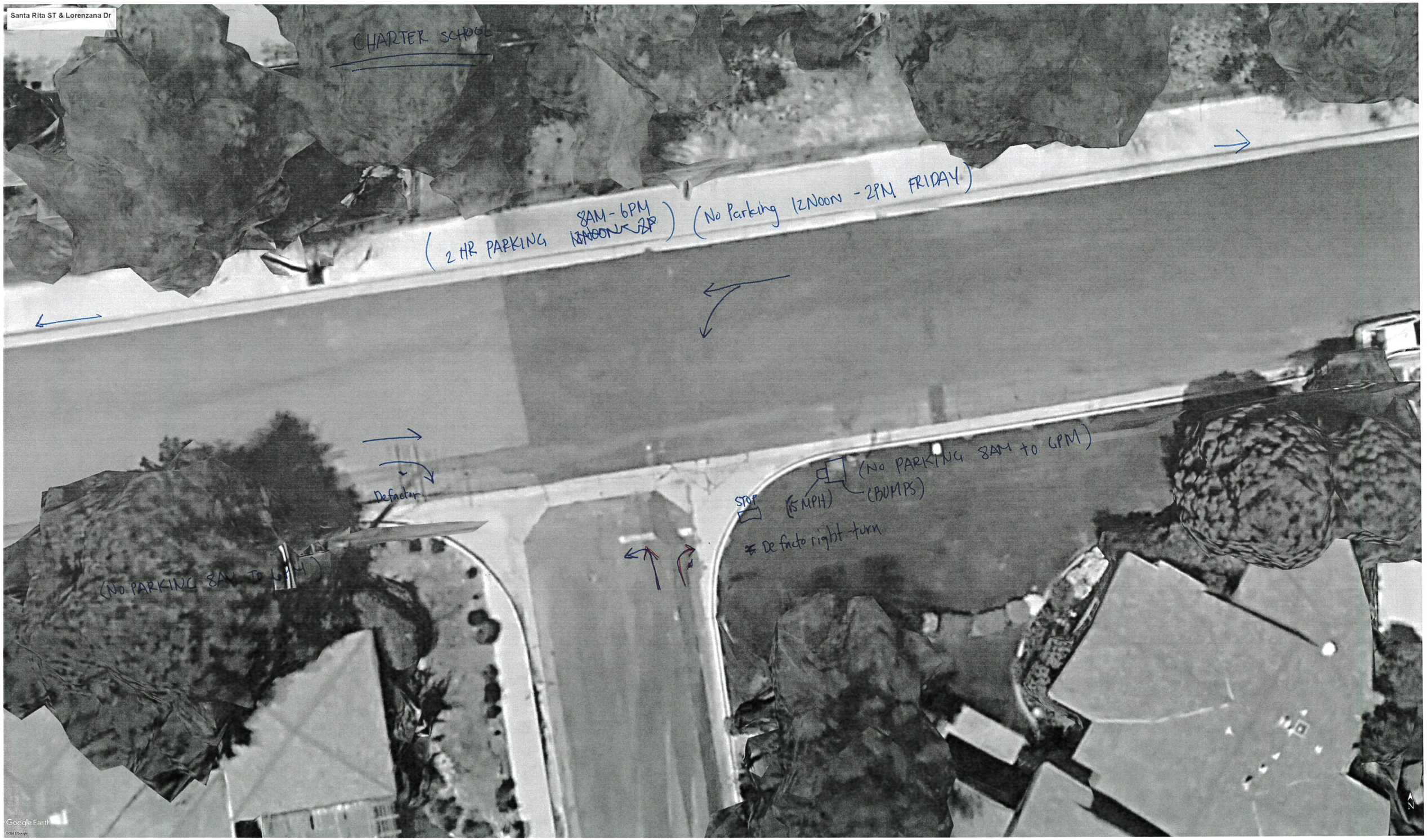
APPENDIX A

Field Review Sheets

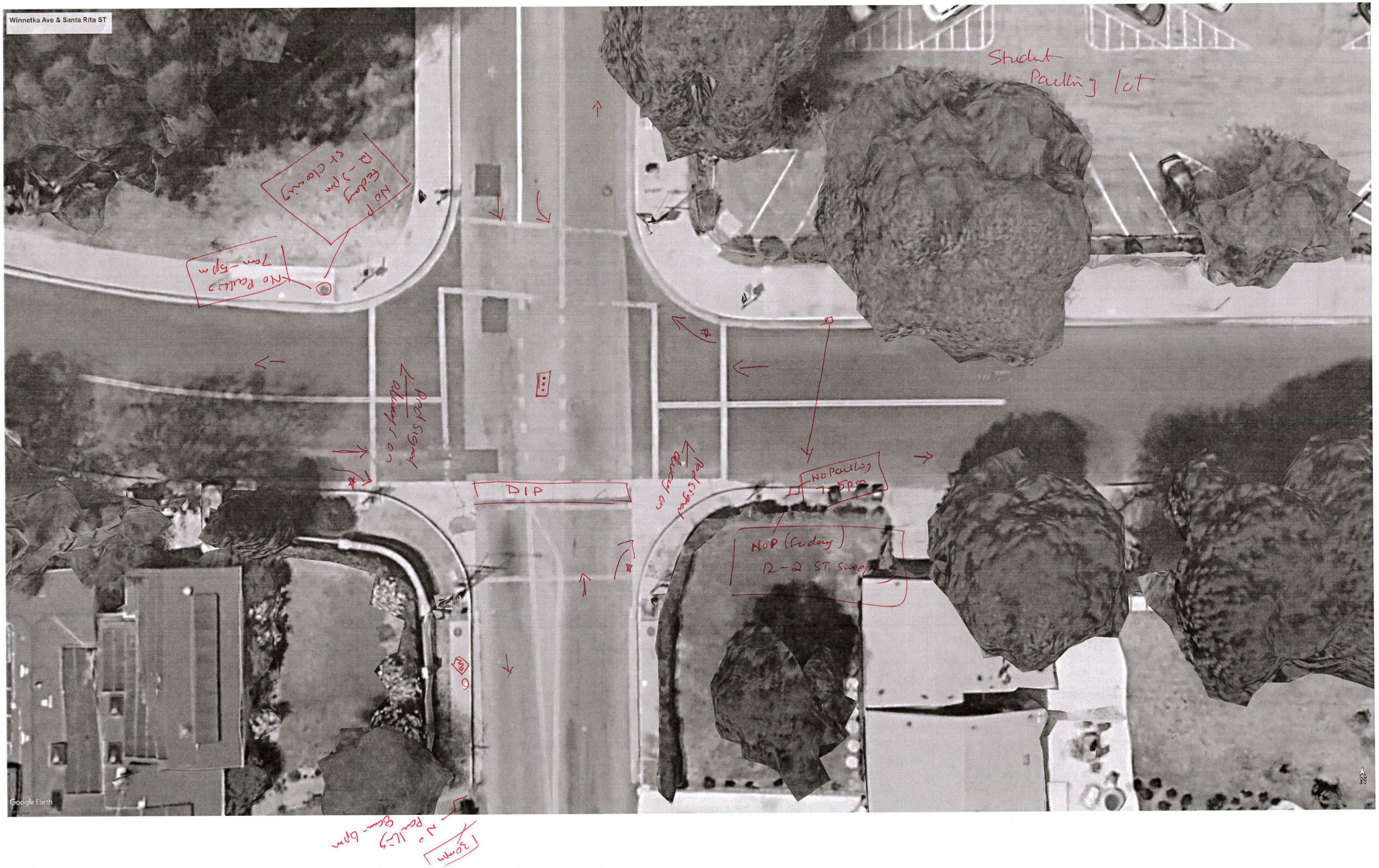

Del Moreno Dr & Ventura Blvd
Semi-actuated
No LEFT TURN
BUS PAD
No u-turn
BUS METRO 150
BUS LOOP
Permissive LT.
No Parking 7am to 5PM School Days
No LEFT - TURN or U-TURN
SCHOOL SPEED LIMIT 25MPH
No Parking
PEDESTRIAN ALWAYS ON
BUS METRO 150
BUS PAD
SPEED LIMIT 25MPH
No STOPPING AT ALL TIMES TOW AWAY
* De facto right turn.
Google Earth

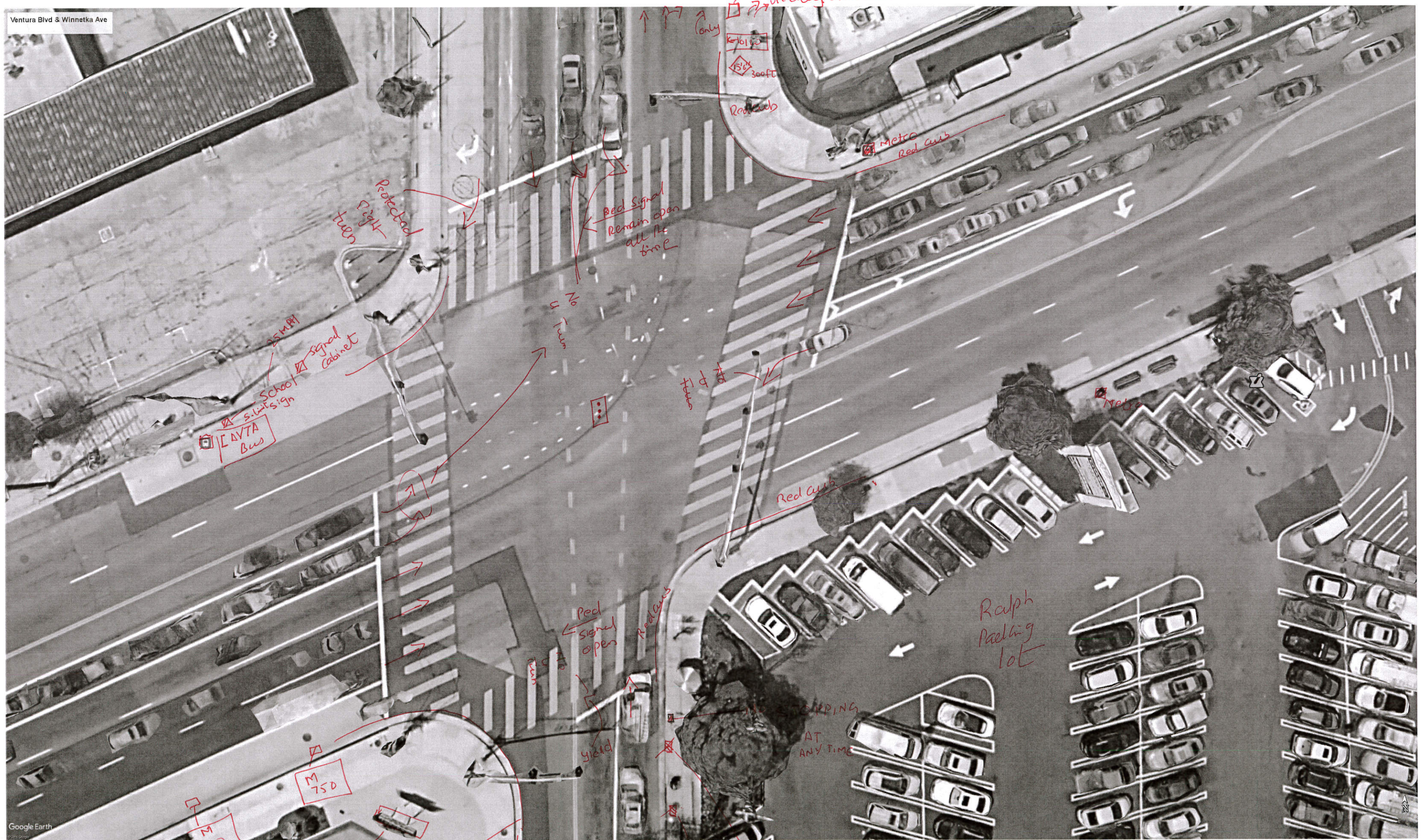

Del Moreno Dr & Reaza Pl
De-facto right turn
STOP

Santa Rita ST & Del Moreno Dr
(No Parking 12Noon to 2PM Friday)
(2HR Parking 8AM to 4PM)
(No Parking 12Noon -2PM FRIDAY)
(2 HR Parking 8AM to 6PM Except Sat & Sun)
Stop
De facto -right turn
(No Parking 12Noon-2PM Monday)
(2HR Parking 8AM to 4PM Except Sat & Sun)
(No Parking 12Noon-2PM Monday)
(2HR Parking 8AM to 6PM Except Sat & Sun)
(No Parking 8AM to 1PM except Sat & Sun)
Stop
Google Earth


Santa Rita ST & Lorenzana Dr
CHARTER SCHOOL
(2 HR PARKING 8AM - 6PM ~~12NOON - 2P~~)
(No Parking 12Noon - 2PM FRIDAY)
Defactor
(NO PARKING 8AM TO 6PM)
STOP
(15 MPH)
(NO PARKING 8AM TO 6PM)
(BUMPS)
* De facto right turn
Google Earth

Santa Rita ST & Armida Dr
(No Parking 12 Noon - 2PM FRIDAY)
(1 Hour Parking 8AM - 6PM Except Sat & Sunday)
(No PARKING 8AM - 6PM)
(BUMPS)
STOP
(15 MPH)
(No Parking 8AM - 6PM)
De-facto right turn.
(Not a through street)
Google Earth

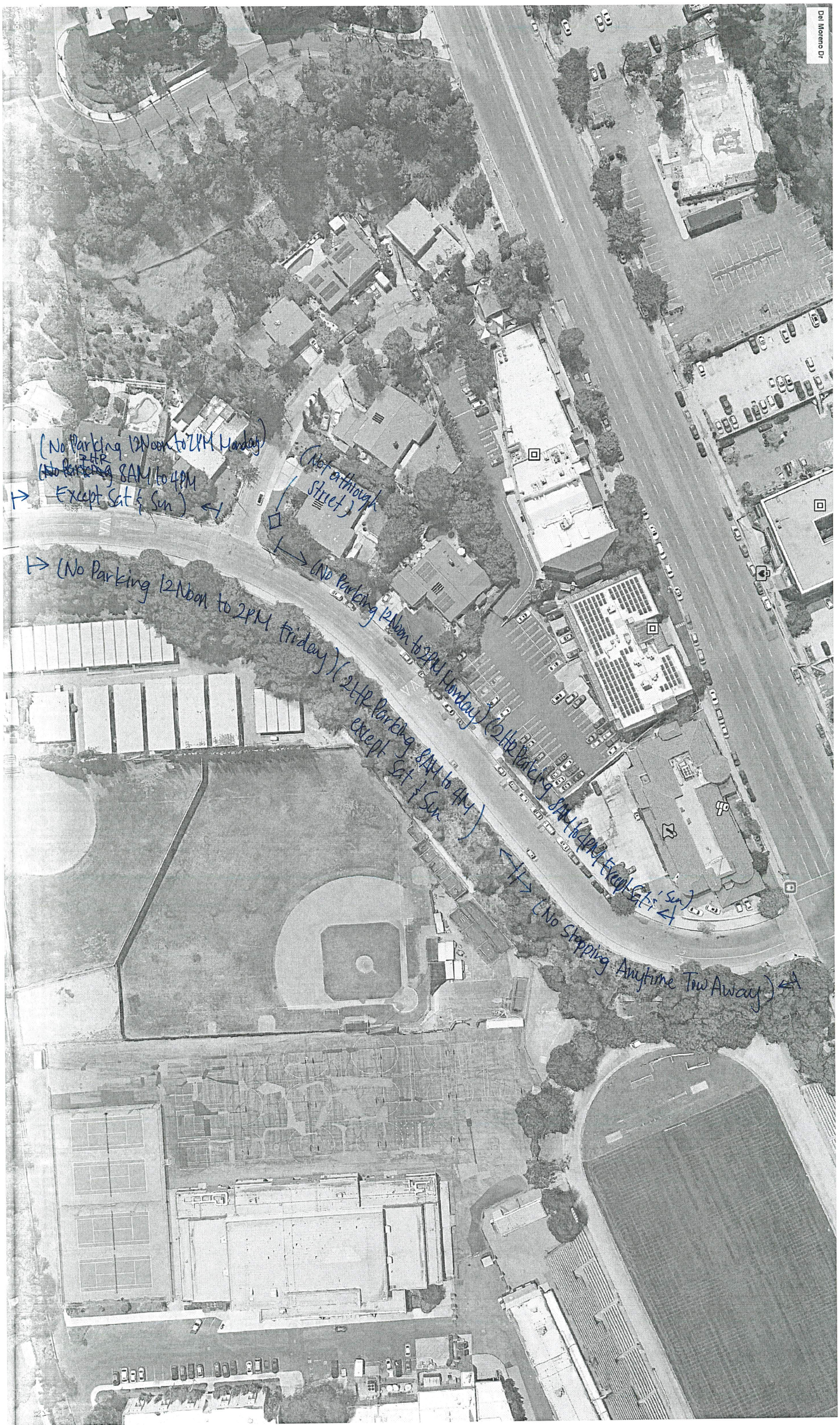

Winnetka Ave & Santa Rita ST
Student Parking lot
No P Friday 12-2 pm St Cleaning
No Parking 7am-5pm
Red Signal always on
DIP
Red Signal always on
No Parking 7-5pm
NoP (Friday) 12-2 ST. Sweep
30mph
No Parking 8am-6pm
Google Earth


Ventura Blvd & Winnetka Ave
35MPH
Freeway Entrance
only
15'6"
300ft
Roll curb
Metro
Red curb
Protected right turn
Red Signal Remain open all the time
No turn
25MPH
Signal cabinet
School sign
LADOT Bus
Red curb
Ralph Parking lot
Ped signal open
Red curb
yield
PARKING AT ANY TIME
M 750
M 150
School Name Sign
Red curb
30MPH
25MPH
Google Earth

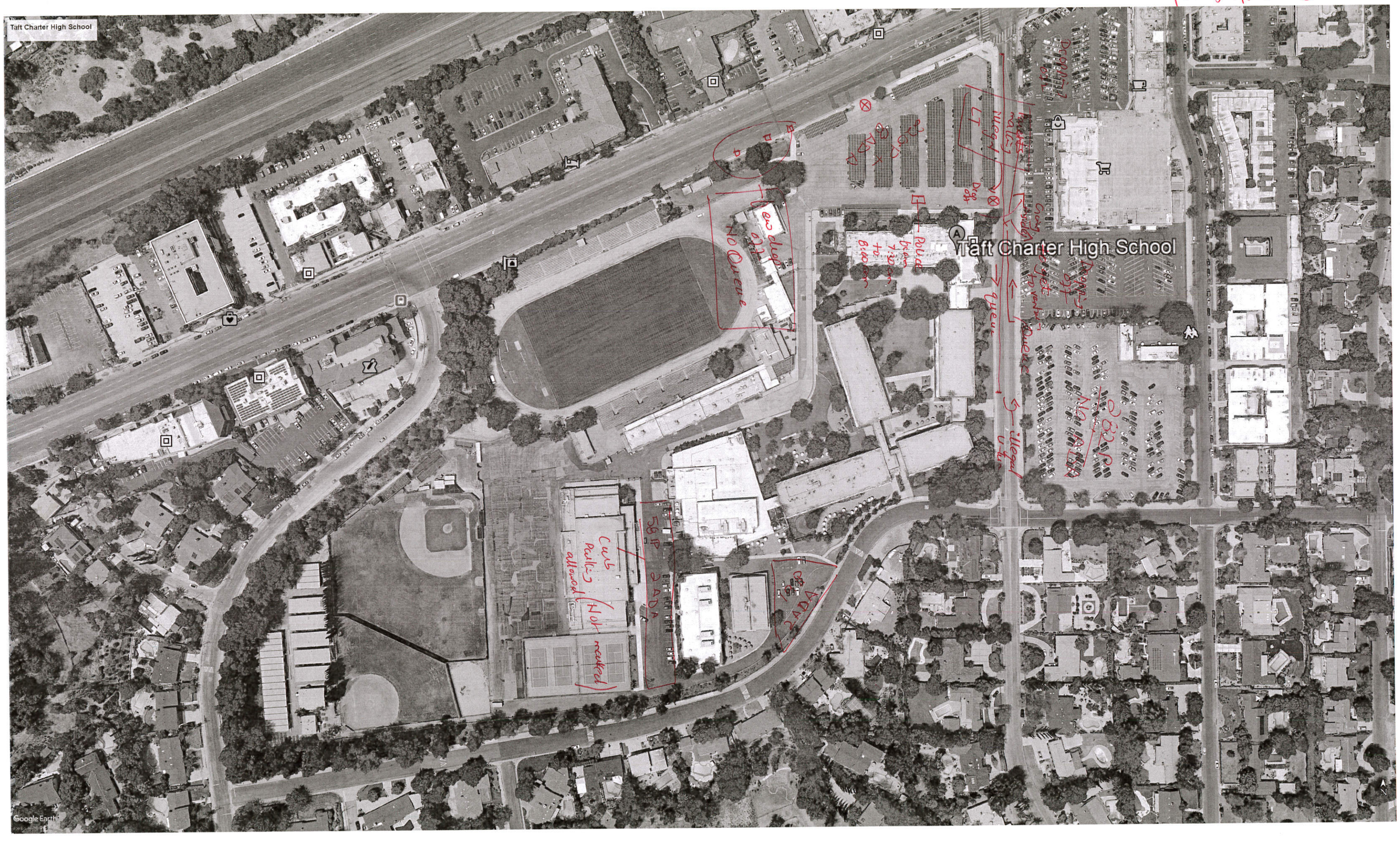
Ventura Blvd
No Peuling 7am 2 hours Peuling
No Peuling 7am-5pm
Taft Charter
5461
Google Earth

224 478 950

Winnetka Ave
Taft Charter High School
5461
No Parking 7am -5pm
Tree cout plaster
No P all the time
Google Earth


Del Moreno Dr
(No Parking 12Noon to 2PM Monday)
2HR
~~(No Parking~~ 8AM to 4PM
Except Sat & Sun)
(Not a through Street)
(No Parking 12Noon to 2PM Monday)
(No Parking 12Noon to 2PM Friday)
(2HR Parking 8AM to 4PM except Sat & Sun)
(2HR Parking 8AM to 4PM Except Sat & Sun)
(No Stopping Anytime Tow Away)

Santa Rita St
SCHOOL BUS
(No Parking 12Noon to 2PM Friday)
(No Parking 7AM to 5PM School Days)
students
gate entrance
driveway for staff and school bus
(2HR Parking 9AM to 1:30PM school days)
(No Parking 8AM to 6PM)
(No Parking 8AM to 6PM)
(No Parking 8AM to 6PM)
(No Parking 8AM to 6PM)
(No Parking 8AM to 6PM)
(No Parking 8AM to 6PM)
(No Parking 8AM to 6PM)
(BUPMS) (15MPH)
(No Parking
Google Earth


Taft Charter High School
Taft Charter High School
Google Earth

LEGEND:
↦ - - - ↰ QUEUE
→ → → STUDENT CIRCULATION.

↖ ARMIDA DR ↖ LORENZANA DR

APPENDIX B

Walk Audit Sheets

(ROSA) rfelicia@LAUSD.Net

EXISTING CONDITIONS FIELD ASSESSMENT

PROCEDURE:

Each school location will include a project limit of all streets, intersections and midblock crossings that immediately surround the school grounds. Streets and intersections will be identified prior to the site visit.

OBSERVER: VIVIANNE TABLENA DATE: 5/1/2018

LOCATION/WEATHER: CLOUDY (MORNING) - TIME: 7:15AM -

STREETS:

VENTURA BLVD, between DEL MORENO DR and WINNETKA ST (30 MPH)

DEL MORENO DR (25 MPH), between VENTURA BLVD and SANTA RITA ST

WINNETKA, between VENTURA and SANTA RITA

SANTA RITA, between WINNETKA and DEL MORENO DR.

INTERSECTIONS:

PLAZA DR and DEL MORENO DR

DEL MORENO DR and SANTA RITA ST

DEL MORENO DR and VENTURA BLVD

SANTA RITA ST and ARMIDA DR

After the project limit has been determined and aerial has been printed, the following list of items will be recorded or identified as missing:

1. Existing Lane Configurations
   a. Intersections – within reasonable vicinity of school
   b. Street Segments – within reasonable vicinity of school
2. Existing Traffic Signs
3. Locations of Existing Traffic Signals and Street Lighting
4. Locations of Existing Transit Areas
5. Existing Pedestrian and Bicycle Facilities
   a. Bike Lanes
   b. Sidewalks
   c. Crosswalks
   d. Pedestrian Ramps
6. Parking configurations as shown on aerials for:
   a. Administration
   b. Teachers
   c. Students
   d. Visitors
   e. Deliveries
   f. Buses
   g. On-street
7. Pick-up and Drop-off Operation Issues During Peak Periods
8. General Internal and External Circulation Issues

SANTA RITA ST AND LORENZANA DR

DROP OFF ~~PICK UP~~ NOTES:

WINNETKA ST

- MEDIAN ON WINNETKA ST becomes a through lane/passing lane because of stopped car on west side of streets, cars dropping off students.
- INTERVIEW: sideswipe has occurred because of cars stopping and going in and out of queue.
- This resembles a pudo for airport gates.
- Parents making U-turn of WINNETKA

SANTA RITA ST

- SANTA RITA ST is wide enough to accomodate two-way traffic but is not stripped.
- STUDENTS get dropped off at SANTA RITA ST southside.
- sideswipe can occur because of cars coming out of queue
- SANTA RITA ST - high pedestrian volume
- WINNETKA/SANTA RITA
  - students cross even after lights is off
  - No crossing guard present.

A Road Safety Audit (see attached template) will be conducted as part of each location's assessment.

NEEDS:

- Safety Vest
- Clipboard, pad and pen/pencil
- Geo-referenced digital camera
- Measuring wheel
- Shoes with ankle protection

ENTRANCE GATES CLOSE AT 8AM.

- DROP OFF is mainly on WINNETKA and SANTA RITA ST.
- causing queue ~~up~~ from WINNETKA/VENTURA BLVD to midde of SANTA RITA ST between WINNETKA and LORENZANA DR.
- CIRCULATION OF CARS: GO AROUND SCHOOL.

VENTURA BLVD → WINNETKA → SANTA RITA → DEL MORENO DR → VENTURA BLVD

INTERSECTIONS

Ventura blvd & Winnetka Av

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	Y
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	NA
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	NA
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N (NO SD problem)
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	NA
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	NA (NO security guards)
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	NA
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	NA (Survey in morning)
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	NA (No stopped veh allowed)
Access Management	1.	Are driveways placed close to crossings?	Y (one driveway on Winnetka Ralphs)
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N (No hazard)
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N (Enough Ped signal timing NO safety issue)
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N (Not worn)
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	Y
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	Y
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N (No problem)
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	Y
	5.	Are ADA accessible push buttons provided and properly located?	Y

***For any Result with "N" or "Other", please add notes below:**

Winnetka Ave & Santa Rita ST

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N (No curb at intersection)
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	NA
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	NA
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N (No SD Problem)
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	NA
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	NA
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	other (No Curb ramp)
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	NA
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N (No Parking allowed)
Access Management	1.	Are driveways placed close to crossings?	N (No drive way close)
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N (Rule is DIP to slow down veh)
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N (No Safety Concern)
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N (Not worn)
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	Y
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	Y
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N (No Problem)
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	Y
	5.	Are ADA accessible push buttons provided and properly located?	Y

***For any Result with "N" or "Other", please add notes below:**

SANTA RITA ST / DEL MORENO DR.

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	Y
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N - no crosswalk
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N - No crossing guard
	7.	Are marked crosswalks wide enough?	N/A - No crosswalk
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	N/A
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	N - No curb ramps
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	N - No crosswalk
	2.	Is the crossing pavement flush with the roadway surface?	N - No crosswalk
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	No
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	No
Lighting	1.	Is the pedestrian crossing adequately lit?	N - not enough street light
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	N - No crosswalk
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	N - no crosswalk so people
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N - cross randomly
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N/A - No signs/striping
	2.	Are crossing points for pedestrians properly signed and/or marked?	N
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

- No crosswalk
- No curb ramps at all sides
- No sidewalk southside santa rita st, and west side del moreno dr.

LORENZANA DR / SANTA RITA ST.

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N/A
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N - No crossing guard
	7.	Are marked crosswalks wide enough?	N/A
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	N
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	N - No curb ramps. No sidewalk. South side SANTA ANITA
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	N/A > No crosswalk crossing.
	2.	Is the crossing pavement flush with the roadway surface?	N/A
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	N
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	N
Lighting	1.	Is the pedestrian crossing adequately lit?	No - Not enough streetlight
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	N/A
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	N - No crosswalk so people cross randomly
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N - No crosswalk so People cross randomly
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N/A
	2.	Are crossing points for pedestrians properly signed and/or marked?	N/A
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A.

***For any Result with "N" or "Other", please add notes below:**

- No crosswalk in this intersection
- No curb ramps on all corners
- No sidewalk on southside SANTA RITA ST. and East side of Lorenzana Dr.

ARMIDA DR / SANTA RITA ST

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N/A
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N- No cross guard
	7.	Are marked crosswalks wide enough?	N/A
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	N
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	N/A - No curb ramps at all corners
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	N/A > No crosswalk
	2.	Is the crossing pavement flush with the roadway surface?	N/A
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	N
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	N
Lighting	1.	Is the pedestrian crossing adequately lit?	N - Not enough street lights
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	N
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	N/A
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	N- No crosswalk so random crossing
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N/A
	2.	Are crossing points for pedestrians properly signed and/or marked?	N/A
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

- No crosswalk
- No curb ramps at all corner
- No sidewalk southside of Santa Rita St and East side of Armida Dr.

DEL MORENO DR / VENTURA BLVD

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N- No crossing guard
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	N- Northside cross ramp is in the middle (see picture)
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Other -Note 1.
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	N - stop line not off set
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y - signalized
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	Y - crosswalk southside worn off
	2.	Are crossing points for pedestrians properly signed and/or marked?	N - Not for school crossing
Signals	1.	Are pedestrian signal heads provided and adequate?	Y
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N - time to cross ventura is not enough
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	No
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	Y
	5.	Are ADA accessible push buttons provided and properly located?	Y

***For any Result with "N" or "Other", please add notes below:**

Note: 1. Not enough waiting area on SE corner

REAZA PL / DEL MORENO DR

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N/A
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N - No crossing guard
	7.	Are marked crosswalks wide enough?	N/A
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	N
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	N - No curb ramps No sidewalk westside Del Moreno
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	N/A > No crosswalk
	2.	Is the crossing pavement flush with the roadway surface?	N/A
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	N
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	N
Lighting	1.	Is the pedestrian crossing adequately lit?	N - not enough street light
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	N/A
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	N > No crosswalk people cross randomly
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N/A
	2.	Are crossing points for pedestrians properly signed and/or marked?	N/A
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

- No ~~crosswalk~~ sidewalk on westside del Moreno dr and southside reaza pl.
- No crosswalk and no curb ramps.

STREETS

ventura blvd

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	Y
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y
	7.	Are ramps provided as an alternative to stairs?	NA
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	NA
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	Y (Not good for wheelchair person)
	4.	Is the walking surface adequate and well-maintained?	Y
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N (NO measure needed)
Lighting	1.	Is the sidewalk adequately lit?	NA
	2.	Does the street lighting improve pedestrian visibility at night?	NA
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	Y
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N (Not ~~enough~~ Ped lots Not many driveway)
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	Y (Not seperate bike lane)
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

STREETS

Winnetka Ave

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	Y
	3.	Are shoulders/sidewalks provided on both sides?	NO (No Shoulder)
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y
	7.	Are ramps provided as an alternative to stairs?	NA
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	NA
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N
	4.	Is the walking surface adequate and well-maintained?	Y (Not infront of Ralphs)
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	X/N (~~on Winetka and Santa~~
Lighting	1.	Is the sidewalk adequately lit?	NA
	2.	Does the street lighting improve pedestrian visibility at night?	NA
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	Y (No Seperate bike Lane)
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

DEL MORENO DR.

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Other - Note 1
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	N/A
	3.	Are shoulders/sidewalks provided on both sides?	~~Y~~ Other - Note 1
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y
	7.	Are ramps provided as an alternative to stairs?	N/A
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	~~Y~~ - Other Note 2
	3.	Is the walking surface too steep?	N
	4.	Is the walking surface adequate and well-maintained?	~~Y~~ N - Other Note 3
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	~~Y~~ N
Lighting	1.	Is the sidewalk adequately lit?	Y
	2.	Does the street lighting improve pedestrian visibility at night?	Y
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	Y - No bike path
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

Note

1. Sidewalk available on both side of street but westside ends up to end of parking lot.
2. Encroaching vegetation on eastside of del moreno dr.
3. Few cracks and one major crack. see picture

SANTA RITA ST

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Other - ONLY Northside
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	other - southside can accomodate cyclists but NOT Pedestrian
	3.	Are shoulders/sidewalks provided on both sides?	No - ONLY Northside
	4.	Is the sidewalk width adequate for pedestrian volumes?	No - MANY STUDENTS IN THE MORNING
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	YES
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	YES
	7.	Are ramps provided as an alternative to stairs?	N/A
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	YES
	3.	Is the walking surface too steep?	No
	4.	Is the walking surface adequate and well-maintained?	YES
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	N - only Northside
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	Y - on backside/charter area of school
Lighting	1.	Is the sidewalk adequately lit?	No - Not enough street light
	2.	Does the street lighting improve pedestrian visibility at night?	No
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Not at night
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	No
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	No
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	YES - sidewalk not wide enough for cyclists and peds.
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	YES.

***For any Result with "N" or "Other", please add notes below:**

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N (There is sidewalk all way around)
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N (Ped. walk on side walks)
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	~~Y~~N (Not marked or signed.)

***For any Result with "N" or "Other", please add notes below:**

Y (some ped walk in parking lot although side walk is available)

Teacher Parking LOT small

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N (Don't obstruct)
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	NA
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y

***For any Result with "N" or "Other", please add notes below:**

Teacher Parking LOT Big

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N (Don't obstruct)
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	NA
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	~~NA~~ Y

***For any Result with "N" or "Other", please add notes below:**

PARKING AREAS/ADJACENT DEVELOPMENTS

Student P LOT

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	No (No sidewalk in Parking LOT)
	2.	Are the sidewalks/paths designed appropriately?	NA
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N (enough space for Ped)
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	Other (Student walk in middle of P LOT)
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	N (Not signed / marked)

***For any Result with "N" or "Other", please add notes below:**

DEL MORENO DR / VENTURA BLVD

TRANSIT AREAS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Are bus stops sited properly?	Y
	2.	Are safe pedestrian crossings convenient for transit and school bus users?	Y
	3.	Is sight distance to bus stops adequate?	Y
	4.	Are shelters appropriately designed and placed for pedestrian safety and convenience?	other - No shelter on south side Ventura
Quality, Conditions, and Obstructions	1.	Is the seating area at a safe and comfortable distance from vehicle and bicycle lanes?	Y
	2.	Do seats (or persons sitting on them) obstruct the sidewalk or reduce its usable width?	N
	3.	Is a sufficient landing area provided to accommodate waiting passengers, boarding/alighting passengers, and through/bypassing pedestrian traffic at peak times?	Y
	4.	Is the landing area paved and free of problems such as uneven surfaces, standing water, or steep slopes?	Y
	5.	Is the sidewalk free of temporary/permanent obstructions that constrict its width or block access to the bus stop?	Y
Continuity and Connectivity	1.	Is the nearest crossing opportunity free of potential hazards for pedestrians?	Y
	2.	Are transit stops part of a continuous network of pedestrian facilities?	Y
	3.	Are transit stops maintained during periods of inclement weather?	Not sure
Lighting	1.	Are access ways to transit facilities well-lit to accommodate early-morning, late-afternoon, and evening pedestrian traffic?	Y
Visibility	1.	Are open sight lines maintained between approaching buses and passenger waiting and loading areas?	Y
Traffic Characteristics	1.	Do pedestrians entering and leaving buses conflict with cars, bicycles, or other pedestrians?	N
Signs and Pavement Markings	1.	Are appropriate signs and pavement markings provided for school bus and transit stops?	Y

***For any Result with "N" or "Other", please add notes below:**

TRANSIT AREAS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Are bus stops sited properly?	Y
	2.	Are safe pedestrian crossings convenient for transit and school bus users?	Y
	3.	Is sight distance to bus stops adequate?	Y
	4.	Are shelters appropriately designed and placed for pedestrian safety and convenience?	Y
Quality, Conditions, and Obstructions	1.	Is the seating area at a safe and comfortable distance from vehicle and bicycle lanes?	Y
	2.	Do seats (or persons sitting on them) obstruct the sidewalk or reduce its usable width?	N (enough wide to accomodate Ped vol.)
	3.	Is a sufficient landing area provided to accommodate waiting passengers, boarding/alighting passengers, and through/bypassing pedestrian traffic at peak times?	Y
	4.	Is the landing area paved and free of problems such as uneven surfaces, standing water, or steep slopes?	Y
	5.	Is the sidewalk free of temporary/permanent obstructions that constrict its width or block access to the bus stop?	Y
Continuity and Connectivity	1.	Is the nearest crossing opportunity free of potential hazards for pedestrians?	Y
	2.	Are transit stops part of a continuous network of pedestrian facilities?	Y
	3.	Are transit stops maintained during periods of inclement weather?	Y
Lighting	1.	Are access ways to transit facilities well-lit to accommodate early-morning, late-afternoon, and evening pedestrian traffic?	NA
Visibility	1.	Are open sight lines maintained between approaching buses and passenger waiting and loading areas?	Y
Traffic Characteristics	1.	Do pedestrians entering and leaving buses conflict with cars, bicycles, or other pedestrians?	N
Signs and Pavement Markings	1.	Are appropriate signs and pavement markings provided for school bus and transit stops?	Y

***For any Result with "N" or "Other", please add notes below:**

5/1
Professional
Development
Day = 1:43pm

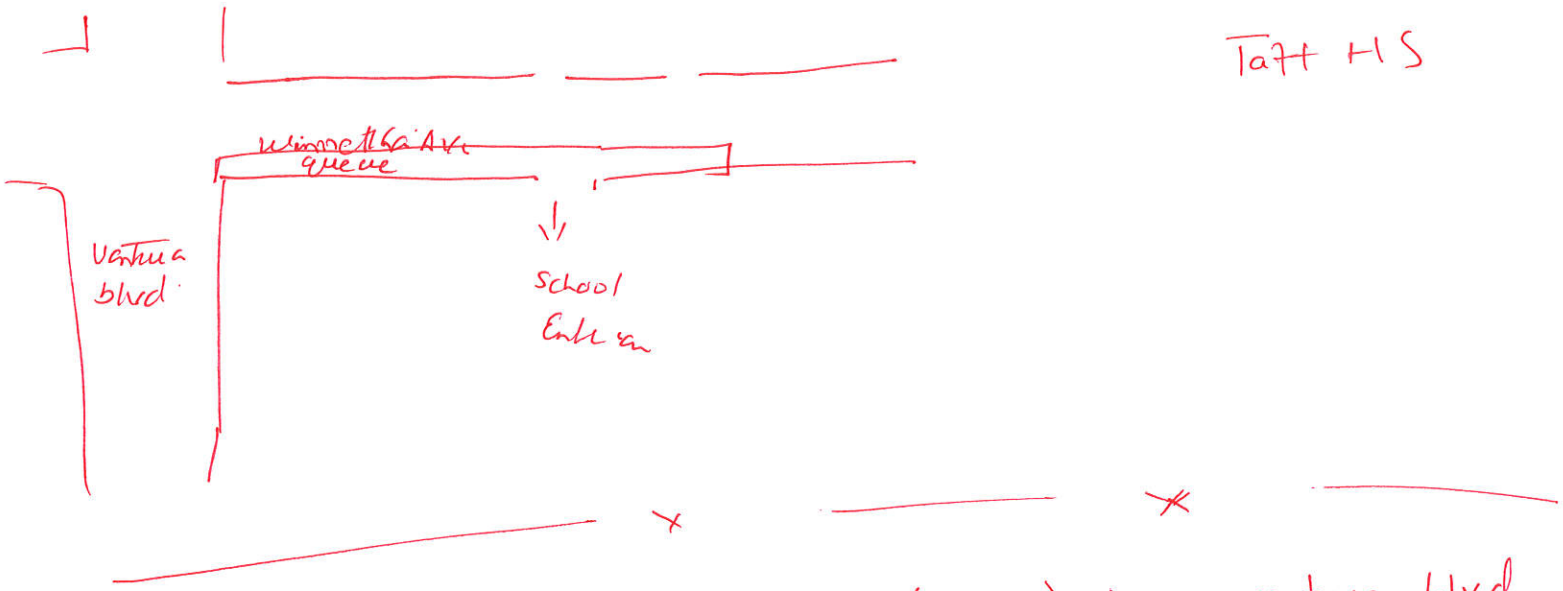
Pick-up ~~Drop~~ off notes

- Cars park on both sides of Santa Rita St for Pick up.
- Same length as pick-up.
- Cars make-u-turn at Santa Rita St with incoming traffic.
- Crosswalk Ramp on Winnetka Av and Santa Rita St is not enough to accomodate pedestrians.
- Need to create safer crosswalk on Winnetka and Santa Rita St. because of the high volume crossing to student parking lot.
- People stop and park in middle of Santa Rita St to pick up kids.
- the Permissive LT creates delay for through movements and not safe for students crossing the street.
- high volumes of cars coming out of parking lot creates delay.
- vehicles coming out of parking lots create danger to pedestrian.
- Vehicles getting out of parking spaces create danger to pedestrian in parking lots.

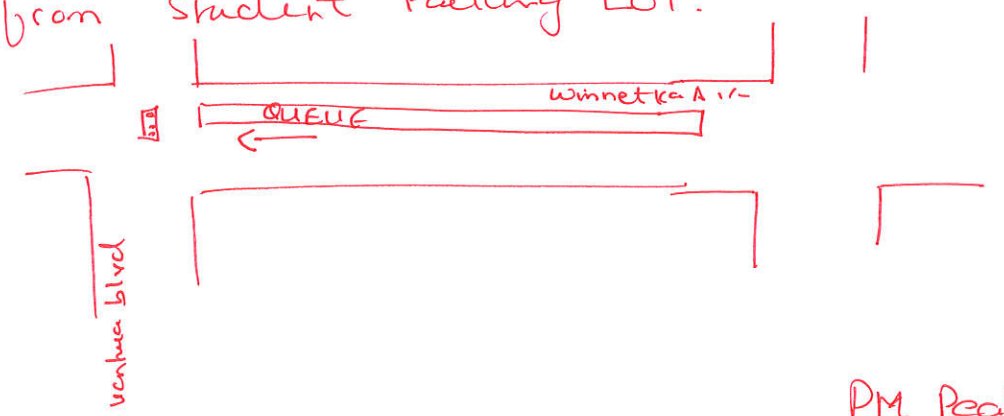
- Parents making illegal LT when exiting from school to Winnetka Ave
- People making no U-Turn at Winnetka Ave to go to Ventura blvd
- People dropping off their kids in Ralphs Parking LOT
- Long que at Winnetka blvd leading upto intersection of Ventura Blvd and Winnetka Ave

AM Peak

Taft HS



- Student mostly using Public Transport (Metro) from ventura blvd.
- There is a long que on Winnetka Ave ~~be~~ because students coming out from Student Parking LOT.



PM Peak

Taft HS

- Security Guard on Winnetka Ave Entrance.

APPENDIX C

Selected Photos

Sidewalk deterioration along Ventura Boulevard may make use impractical for disabled students or faculty

Lack of separate bike lanes along Ventura Boulevard forces bicyclists to share the sidewalk with pedestrians or the street with vehicles

Sidewalk deterioration along Winnetka Avenue may make use impractical for disabled students or faculty

Lack of curb ramps at the intersection of Winnetka Avenue and Santa Rita Street

Santa Rita Street only features sidewalks along the north side of the street

Long vehicle queues along Winnetka Avenue causes congestion that backs up into the intersection of Ventura Boulevard and Winnetka Avenue

Limited entrances and exits for the student parking lot creates congestion within the student parking lot

Pick-up/drop-off in the nearby Ralph's grocery store parking lot creates unnecessary congestion for customers

APPENDIX D

Additional Information

24 Hours Traffic Volume

City of Los Angeles

Department of Transportation

Counter	KENT/LAVEDIA
Date	02/10/14
Start Time	12 AM

Location	**VENTURA BL AT DEL MORENO DR**	**Day of Week**	MONDAY	**Prepared**	02/11/14
Direction	E/W STREET	**DOT District**	WEST VALLEY	**By**	LW
Serial Number	RD23083 D	**Weather**	CLEAR		

	NORTHBOUND or WESTBOUND					SOUTHBOUND or EASTBOUND					
Time	1ST QTR	2ND QTR	3RD QTR	4TH QTR	HOUR TOTAL	1ST QTR	2ND QTR	3RD QTR	4TH QTR	HOUR TOTAL	**TOTAL**
12 AM	29	27	16	17	89	23	13	17	9	62	151
1 AM	20	12	8	8	48	8	11	12	6	37	85
2 AM	3	7	4	4	18	4	10	5	7	26	44
3 AM	1	5	3	5	14	3	4	5	8	20	34
4 AM	7	9	13	13	42	7	5	8	9	29	71
5 AM	9	15	16	33	73	11	48	33	37	129	202
6 AM	33	53	85	98	269	49	70	139	200	458	727
7 AM	118	172	191	236	717	245	275	358	348	1226	1943
8 AM	250	305	286	280	1121	342	251	221	225	1039	2160
9 AM	266	217	225	176	884	198	174	175	187	734	1618
10 AM	176	178	205	206	765	187	203	190	171	751	1516
11 AM	196	222	214	224	856	205	204	231	234	874	1730
12 NN	226	225	278	276	1005	271	224	234	231	960	1965
1 PM	227	273	242	233	975	243	243	232	229	947	1922
2 PM	231	232	233	251	947	271	231	274	288	1064	2011
3 PM	267	247	258	261	1033	315	283	340	256	1194	2227
4 PM	249	231	253	289	1022	314	341	409	357	1421	2443
5 PM	252	280	261	244	1037	415	411	366	306	1498	2535
6 PM	251	252	225	219	947	364	270	228	232	1094	2041
7 PM	202	172	162	199	735	207	176	155	130	668	1403
8 PM	132	129	138	124	523	125	108	120	105	458	981
9 PM	116	81	101	92	390	101	80	89	72	342	732
10 PM	84	69	57	68	278	123	73	54	44	294	572
11 PM	47	32	37	36	152	44	30	33	26	133	285

FIRST 12-HOURS PEAK QUARTER COUNT	**305**	8 AM	2ND	**358**	7 AM	3RD
LAST 12-HOURS PEAK QUARTER COUNT	**289**	4 PM	4TH	**415**	5 PM	1ST
24 HOUR VEHICLES TOTAL		13,940			15,458	**29,398**
TOTAL VEHICLES STANDARD DEVIATION (STD)	[+,-]	401.61		[+,-]	476.09	864.62

PEAK HOURS VOLUME

	NORTH or WEST BOUND		SOUTH or EAST BOUND		BOTH DIRECTIONS	
	PEAK HOUR	VEHICLE VOLUME	PEAK HOUR	VEHICLE VOLUME	PEAK HOUR	VEHICLE VOLUME
First 12H Peak	8 AM	1,121	7 AM	1,226	8 AM	**2,160**
Last 12H Peak	5 PM	1,037	5 PM	1,498	5 PM	**2,535**
First 12H Peak STD	[+,-]	404.43	[+,-]	434.57	[+,-]	824.07
Last 12H Peak STD	[+,-]	315.08	[+,-]	433.77	[+,-]	738.19

City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North/South Winnetka Ave

East/West Ventura Blvd

Day: Thursday Date: May 28, 2009 Weather: SUNNY

Hours: 7-10AM 3-6PM Chekrs: 0

School Day: YES District: 0 I/S CODE 0

	N/B	S/B	E/B	W/B
DUAL-WHEELED	0	0	0	0
BIKES	0	0	0	0
BUSES	0	0	0	0

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	111	8.00	296	7.45	549	8.15	341	7.45
PM PK 15 MIN	119	4.30	252	3.30	457	5.30	355	5.30
AM PK HOUR	412	7.15	1017	7.30	2036	8.00	1155	7.15
PM PK HOUR	445	4.30	930	3.00	1777	5.00	1311	3.15

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	78	256	29	363
8-9	90	197	52	339
9-10	91	205	63	359
3-4	86	263	38	387
4-5	86	307	37	430
5-6	110	267	54	431
TOTAL	541	1495	273	2309

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	264	408	269	941
8-9	390	247	323	960
9-10	375	233	271	879
3-4	322	371	237	930
4-5	292	267	222	781
5-6	284	281	200	765
TOTAL	1927	1807	1522	5256

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
1304	0	0	0	0
1299	0	0	0	0
1238	0	0	0	0
1317	0	0	0	0
1211	0	0	0	0
1196	0	0	0	0
7565	0	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	205	1073	51	1329
8-9	204	1776	56	2036
9-10	184	1247	51	1482
3-4	277	1132	102	1511
4-5	282	1254	85	1621
5-6	304	1380	93	1777
TOTAL	1456	7862	438	9756

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	63	863	192	1118
8-9	49	726	205	980
9-10	25	575	188	788
3-4	50	908	347	1305
4-5	47	818	332	1197
5-6	48	862	399	1309
TOTAL	282	4752	1663	6697

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
2447	0	0	0	0
3016	0	0	0	0
2270	0	0	0	0
2816	0	0	0	0
2818	0	0	0	0
3086	0	0	0	0
16453	0	0	0	0

(Rev Oct 06)

Parking Analysis

There are a total of 5 different locations where vehicles could be parked on the Taft CHS campus. The main parking lot (P-1) at the front of the school on the Ventura Blvd. and Winnetka Ave. intersection has photovoltaic structures that provide shade. This parking lot is used by staff and visitors but never seems to be full. A portion of the parking lot is dedicated to the Maintenance & Operations Department; those stalls are adjacent to Utility Building CAFM #17. The student parking lot (P-2) is located across the street from the main campus on Winnetka Ave, it is dedicated to students that get permits to be able to drive to school and access the parking lot. The parking area (P-3) South of Bldg. E CAFM #5 is used for Taft CHS and Ivy Academia staff. Parking Lot P-4 which is along the service road between the Gymnasium Building CAFM #2 on the west side and MPR Building CAFM #1 and Building G CAFM #3 on the east side seem to be always full. Three ADA stalls (P-5) were incorporated as part of the ADA Barrier Removal at Football Field Area project (COLLIN #10367895) in 2016 along the blacktop fencing near the basketball courts. They do not have proper signage or striping and the path of travel seems too steep.
The number of parking stalls provided on campus exceeds the LAUSD Standards for a campus with this enrollment size. The minimum number of stalls can be 235, the Taft CHS campus has 575.

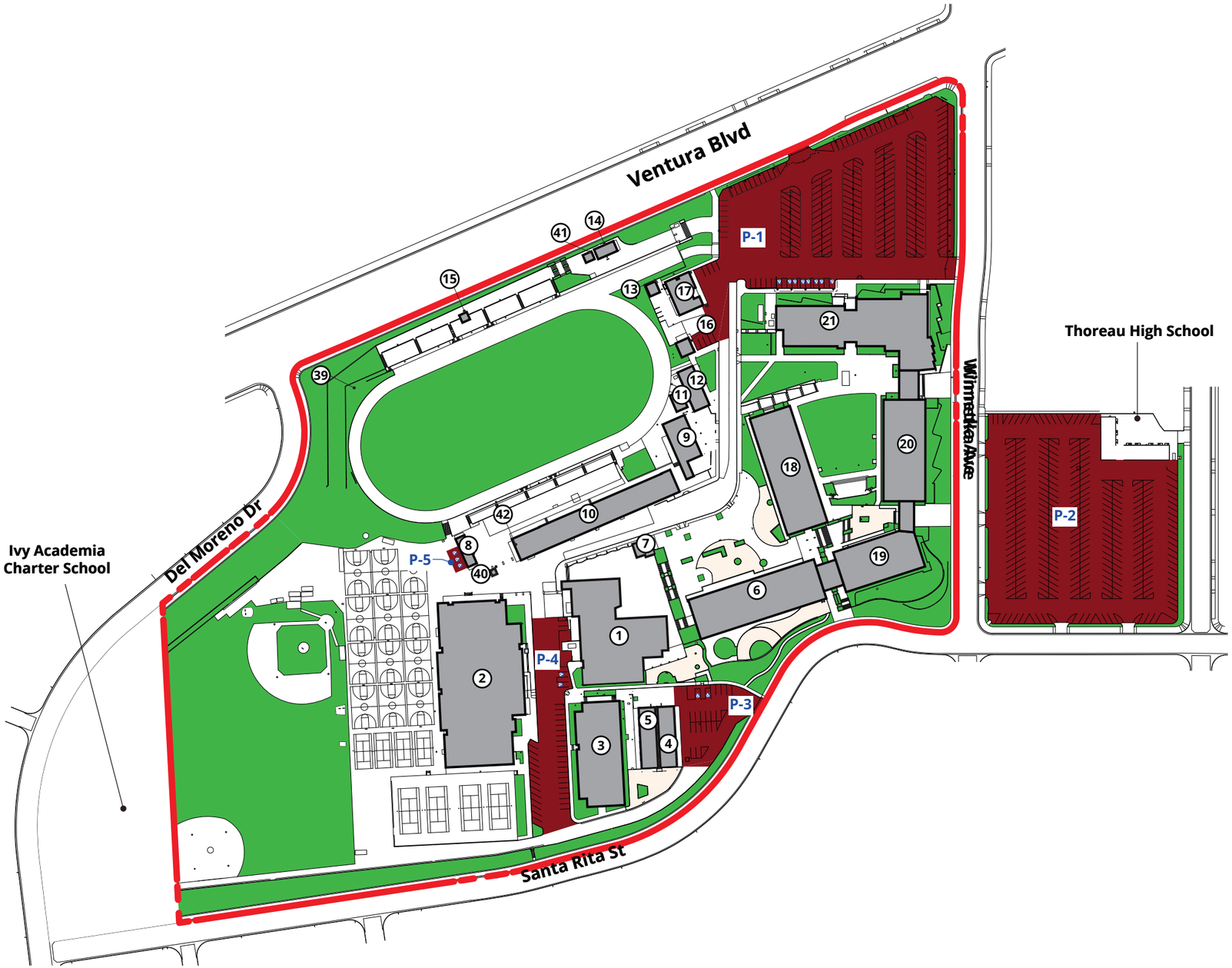
P-1

P-2

P-3

P-4

P-5



LEGEND

- (E) Building
- (E) Parking
- Project boundary

P-1:	218 Standard Stalls 8 ADA Stalls
P-2:	288 Standard Stalls 0 ADA Stalls
P-3:	17 Standard Stalls 2 ADA Stalls
P-4:	37 Standard Stalls 2 ADA Stalls
P-5:	3 ADA Stalls

SCALE 0' 50' 100' 200'

NAC ARCHITECTURE

Parking

Project No | 10368166 May 2018

2.1.22

Appendix H

Preliminary Environmental Assessment Equivalent Report

PRELIMINARY ENVIRONMENTAL ASSESSMENT EQUIVALENT REPORT

Performed at:

William Howard Taft Charter High School
5461 Winnetka Avenue
Woodland Hills, California 91364

Prepared for:

Los Angeles Unified School District
Office of Environmental Health & Safety
333 South Beaudry, 21st Floor (21-223-07)
Los Angeles, California 90017

EFI Global Project No. 9836003557

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5261 West Imperial Highway, Los Angeles, California 90045
Toll Free: 888-705-6300 Phone: 310-854-6300 Fax: 310-854-0199 Web: www.EFIGlobal.com

LIST OF ABBREVIATIONS / ACRONYMS

AC – Asphalt concrete
ADA – Americans with Disabilities Act
BCU – Bank cubic yards
CPDH – California Department of Public Health
DHS – California Department of Health Services
DOT – Department of Transportation
DPT – Direct-Push-Technology
DTSC – California Department of Toxic Substances Control
EPA – United States Environmental Protection Agency
ft. amsl – feet above mean sea level
GC/MS – Gas Chromatograph/Mass Spectrometry Detection
GRO – Gasoline-Range Organics
LAUSD – Los Angeles Unified School District
LCU – Loose cubic yards
LUST – Leaking Underground Storage Tank
mg/kg – milligram per kilogram
mg/l – milligrams per liter
ml/min – milliliters per minute
OCP – Organochlorine pesticides
OEHS – Office of Environmental Health and Safety
PEA-E – Preliminary Environmental Assessment – Equivalent
PCB – Polychlorinated biphenyls
pCi/l – picoCuries per liter of air
Phase I ESA – Phase I Environmental Site Assessment
PID – Photoionization detector
pVIC – Potential vapor intrusion condition
QA/QC – Quality Assurance / Quality Control
RAW – Remedial Action Work Plan
REC – Recognized Environmental Condition
RSL – Regional Screening Level [*Summary Table (Target Risk = 1E-06, Target Hazard Quotient = 1.00)*; EPA, November 2018)]
SSALs – Site Specific Action Levels
SWRCB – California State Water Resources Control Board
TPHcc – Total Petroleum Hydrocarbons – carbon chain
TTLC – Total Threshold Limit Concentration
USA – Underground Service Alert
USCS – Unified Soil Classification System
VOC – Volatile Organic Compound
Vapor Intrusion Guidance – Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (DTSC, October 2011)
WET – Wet Extraction Test
22 CCR – Official California Code of Regulations, Title 22
40 CFR – Code of Federal Regulations, Title 40
µg/kg – micrograms per kilogram
µg/l – micrograms per liter

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EXECUTIVE SUMMARY

On behalf of the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS), EFI Global has performed a Preliminary Environmental Assessment-Equivalent (PEA-E) for the William Howard Taft Charter High School campus located at 5461 Winnetka Avenue in Woodland Hills, California (the Site).

Proposed work at the campus includes the seismic retrofit, modernization, and improvement of several existing structures; demolition of several existing structures, and construction of new improvements. The purpose of this assessment is to identify if any environmental issues will need to be mitigated either prior to or during construction activities.

According to information presented in a Phase I Environmental Site Assessment (Phase I ESA) performed at the Site by PlaceWorks in 2017, it was common practice for LAUSD to apply herbicides containing arsenic prior to the placement of asphalt concrete (AC) pavement. Additionally, a three-stage clarifier located near the former Industrial Arts building was identified. Additional identified environmental concerns included the potential for soil contamination from lead based paint, and potential health risks associated with naturally-occurring radon gas.

EFI Global conducted this PEA-E to assess shallow soils in select portions of the Site for Title 22 metals, organochlorine pesticide (OCP), polychlorinated biphenyl (PCB), petroleum hydrocarbons, and volatile organic compound (VOC) impacts, and to evaluate the Site for a potential vapor intrusion condition (pVIC) from the on-site three-stage clarifier. A total of 96 soil borings (B1 through B96) and 27 step-out borings were advanced in several areas of the Site, and select soil samples were collected and analyzed. Two soil vapor probes were installed in boring B13, and soil vapor samples were collected and analyzed.

Analytical results for soil samples collected at the Site identified concentrations of dieldrin, lead, and arsenic in the upper three feet of soil in five sampling locations. As such, EFI Global recommends completing a Remedial Action Work Plan (RAW) for the removal of impacted soil in the vicinity of locations B5, B9, B11, B37, and B61 through excavation and disposal. Following removal of approximately 17 bank cubic yards [BCU; approximately 26 loose cubic yards (LCU)] of impacted soils, EFI Global recommends confirmation soil sampling be included in the RAW to confirm that the elevated concentrations have been adequately removed.

Data generated during this investigation indicates areas which have been impacted by OCPs, metals, and petroleum hydrocarbons, if exported from the Site, should be disposed of as non-hazardous regulated waste.

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Appendix C Investigative-Derived Waste Manifest
Appendix D ProUCL Results

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1.0 INTRODUCTION

On behalf of the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS), EFI Global has performed a Preliminary Environmental Assessment-Equivalent (PEA-E) for the William Howard Taft Charter High School campus located at 5461 Winnetka Avenue in Woodland Hills, California (the Site; Figure 1). Assessment activities performed were based on the following:

1. Phase I Environmental Site Assessment (Phase I ESA) dated September 2017 by PlaceWorks, which identified recognized environmental conditions (RECs) associated with the property;

2. Scope of work provided by LAUSD (*Scope of Services: PEA Equivalent* document dated April 23, 2018);

3. Preliminary Environmental Assessment – Equivalent Work Plan dated October 5, 2017, by PlaceWorks;

4. Amendment to Preliminary Environmental Assessment Equivalent Scope of Work dated July 23, 2018, by EFI Global; and

5. Amendment 2 to Preliminary Environmental Assessment Equivalent Scope of Work dated September 19, 2018, by EFI Global.

Proposed work at the campus includes the seismic retrofit, modernization, and improvement of several existing structures; demolition of several existing structures; demolition of several bungalows; and construction of new improvements. The purpose of this assessment is to identify if any environmental issues will need to be mitigated either prior to or during construction activities.

EFI Global conducted this PEA-E to assess the soil at the Site for lead, arsenic, organochlorine pesticide (OCP), polychlorinated biphenyl (PCB), petroleum hydrocarbon, and volatile organic compound (VOC) impacts from the current/former site operations, and to evaluate the Site for a potential vapor intrusion condition (pVIC) from potential impacts from the on-site clarifier.

A total of 96 soil borings (B1 through B96) and 27 step-out borings were advanced in several areas of the Site, and select soil samples were collected and analyzed. Two soil vapor probes were installed in boring B13, and soil vapor samples were collected and analyzed.

1.1 PREVIOUSLY-IDENTIFIED POTENTIAL ENVIRONMENTAL CONCERNS

A Phase I ESA was previously performed at the Site by PlaceWorks in September 2017. The report identified the following recognized environmental conditions (RECs) and potential environmental concerns associated with the Site:

- Historical Herbicide Uses – LAUSD's potential use of herbicides containing arsenic prior to the placement of asphalt concrete (AC) pavement was considered a REC.
- Industrial Wastewater – A three-stage clarifier located underneath the arcade on the east side of the former Industrial Arts (Auto Shop) Building / current weight room was considered a REC.
- Exterior Soil impacts from Lead-Based Paint and Termiticides – The primary buildings at the Site were constructed prior to 1964 and, therefore, the exposed soil around the buildings may contain elevated concentrations of lead from lead-based paint. In addition, exposed soil around any timber

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structures of this vintage may contain elevated concentrations of organochlorine pesticides (OCPs) from former termiticide applications.

- Radon Gas – The Site is located within a zip code where approximately one-third of the samples collected and analyzed by the California Department of Public Health (CDPH) for radon gas exceeded the United States Environmental Protection Agency's (EPA's) action level of 4.0 picoCuries per liter of air (pCi/l).

2.0 SITE INFORMATION

This section provides pertinent Site information, including location, description and geologic and hydrogeologic setting.

2.1 SITE LOCATION AND DESCRIPTION

The Site is located on the southwest corner of the intersection of Ventura Boulevard and Winnetka Avenue in the Woodland Hills neighborhood of the city of Los Angeles, California (Figure 2). The Site is bound to the north by Ventura Boulevard, to the south by Santa Rita Street, to the east by Winnetka Avenue, and to the west by Del Moreno Drive. The Site is approximately 29 acres in size (identified by Assessor's Parcel Number 2166-042-902) and consists of several academic and administrative structures, courtyards, recreational fields, sports facilities, landscaped areas, and parking lots. The school campus was constructed between 1958 and 1961. The surrounding area is used for commercial and residential purposes.

2.2 REGIONAL GEOLOGIC AND HYDROGEOLOGIC SETTING

The Site is located within the southwest portion of the San Fernando Valley, north of the Santa Monica Mountains, which are a part of the Transverse Ranges Geomorphic Province. The Transverse Ranges are an east-west trending series of steep mountain ranges and valleys. The east-west structure of the Transverse Ranges is oblique to the normal northwest trend of coastal California, hence the name "Transverse." The province extends offshore to include San Miguel, Santa Rosa, and Santa Cruz islands. Its eastern extension, the San Bernardino Mountains, has been displaced to the south along the San Andreas Fault (*California Geomorphic Provinces – Note 36*, California Geological Survey, revised December 2002).

The majority of the Site is underlain with Quaternary-aged surficial sediment deposits of Holocene and Pleistocene age. These deposits are generally characterized as alluvial gravel, sand, and clay of valley areas. The southern portion of the Site is underlain by a Miocene-aged unnamed shale formation which consists of light gray, moderately to vaguely bedded claystone and siltstone (*Geologic Map of the Topanga – Canoga Park (South ½) Quadrangles*, Dibblee Geological Foundation, 1992).

2.3 LOCAL GEOLOGIC AND HYDROGEOLOGIC SETTING

The elevation of the Site is between 835 feet above mean sea level (ft. amsl) in the northeast portion to 915 ft. amsl in the south portion (Canoga Park, California 7.5 minute topographic quadrangle, United States Geological Survey, 1967; Figure 1]. No wetlands were identified at the property or adjoining/immediately surrounding properties.

Groundwater was encountered at the Site during the advancement of boring B13 at a depth of approximately 11.5 feet bgs. This datum is further supported by groundwater data presented in the State Water Resources Control Board (SWRCB) GeoTracker website. Groundwater was detected at the closed leaking underground storage tank (LUST) site (20101 Ventura Boulevard) located approximately 70 feet north of the Site across Ventura Boulevard at an average depth of approximately 10 feet bgs with a reported groundwater flow direction to the northeast [*Groundwater Monitoring Report – Second Quarter 2010 (5 January 2010 to 25 May 2010) Former Mobil Service Station 18183*, Etic Engineering, June 2010].

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2.4 PROPOSED REDEVELOPMENT ACTIVITIES

According to information provided by LAUSD OEHS, the proposed redevelopment activities include the seismic retrofit and modernization of the Administration Building (Building 21), Multi-Purpose Room/Food Service/Lunch Shelter/Student Store (Buildings 1 and 7), and Industrial Arts #1 (Buildings 8, 9, and 10). Three new elevators with bridges will be added to provide programmatic access to the two story classroom buildings A-G (Buildings 4 and 5). The exterior of all existing buildings will be painted as necessary to provide a uniform appearance and enhanced curb appeal. Existing classrooms not being modernized will receive minor interior improvements to help promote teaching and learning. Improvements to meet programmatic access requirements of the Americans with Disabilities Act (ADA) will be made throughout the Site. Aging and outdated site infrastructure (i.e. utilities, stormwater/drainage systems. Various landscape and hardscape improvements will also be made. Various upgrades, improvements or other mitigations to ensure compliance with local, state and/or federal facilities requirements will also be undertaken. A new softball field, and an enlarged artificial turf field & synthetic track with scoreboard, restrooms, ticket booth, and concession stand will be provided. Demolition of 12 relocatable buildings (Ivy Academia Charter) and nine permanent buildings, including Sanitary Building #1 (Building #8), Sanitary Building #2 (Building #14), Industrial Arts Building #2 (Building #9), Storage Unit Buildings #11 & 13, Parent Center Buildings #12 & #16, Ticket Booth #1 (Building #39), and Concession #1 (Building #41).

3.0 FIELD ACTIVITIES

All field activities pertaining to this PEA-E were completed over four separate field events that took place in July, August, November, and December, 2018. Field work conducted as part of this investigation included the advancement and select soil sampling in 96 soil borings and 27 step-out soil borings, the installation and sampling of two soil vapor probes in one boring. Events can be summarized as follows:

- **Event 1** (July 10 and 11, 2018): Soil sampling in borings B1 through B49, and soil vapor probe installation in boring B13;
- **Event 2** (August 9 and 13, 2018): Step-out soil sampling, and soil sampling in borings B51 through B67;
- **Event 3** (November 19, 20, and 21, 2018): Step-out sampling, soil sampling in borings B68 through B94; and
- **Event 4** (December 26, 2018): Soil drum disposal.

3.1 FIELD PREPARATION

Prior to conducting field activities, EFI Global personnel marked the work areas clearly with white paint. Underground Service Alert (USA) was notified of the pending fieldwork a minimum of 48 hours before mobilization. Boring locations were subsequently checked for utility conflicts, access limitations and other hindrances or issues which may have been encountered during fieldwork. No conflicts with utilities were identified in the chosen boring locations.

3.2 SOIL SAMPLING

EFI Global field personnel directed the advancement of 96 soil borings (B1 through B96; Figures 3 through 6) to assess subsurface conditions. Based on analytical results, step-out borings were advanced around nine boring locations (B2, B5, B11, B37, B41, B43, B49, B52, and B61) to further assess soil conditions. Three step-out borings were advanced in each of the nine (9) locations.

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3.2.1 Boring Locations, Sampling Intervals and Investigative Objectives

Boring locations were pre-selected by LAUSD OEHS and were advanced in the areas shown in Figures 3 through 6. A summary of boring locations, sampling depths, and soil sample chemical analysis is presented in Table 1.

3.2.2 Borehole Advancement and Soil Sampling Methodology

All borings were advanced using either a direct-push-technology (DPT) sampling rig or hand auger equipment. At each location with asphalt concrete (AC) paving, a coring barrel was initially used to core through the surface cover.

Each rig was equipped with a hydraulic hammer or vibrator, which was used to drive a 1.5-inch-diameter sampling tool into the soil. In borings advanced with a DPT rig, a hydraulic hammer was used to drive the push-probe sampling system into the soil to the desired sampling depths. As the core barrel was advanced, soil was driven into an acetate sleeve. After being driven, the rods were removed from the borehole, and the acetate sleeve containing the soil was removed from the sample barrel. A six-inch section from the targeted sample depth was then cut, sealed with Teflon® tape and tight-fitting plastic caps, properly labeled, recorded in a chain-of-custody form, and placed in a chilled container pending transport to a state-certified laboratory for analysis.

In boring locations advanced with hand auger equipment, an approximately 3.25-inch-diameter hand auger was used to advance the boring. Soil samples were collected at designated sampling depths in each boring by retrieving a representative volume of soil from the auger bucket and transferring the soil into an acetate liner or a pre-cleaned, laboratory-provided, glass jars with Teflon® lids.

Soil was logged in general accordance with the Unified Soil Classification System (USCS). The samples were observed for color, texture, moisture content, plasticity, evidence of fill material, visible evidence of soil contamination (i.e., discoloration), and any other notable characteristics. Remaining soil from the recovered interval was extruded from the sample liner and used for lithologic description and headspace analysis using a photoionization detector (PID). Incidental odors were also noted, if any. Chain-of-custody documentation and protocol were maintained from sample collection through submittal to the analytical laboratory.

Each sample was additionally field-screened for VOCs by headspace analysis using a PID. A portion of the recovered sample was placed in a plastic bag and sealed to allow organic vapors to volatilize, at which point the PID probe tip was inserted into the bag and the maximum reading observed and recorded.

A minimum of 10% of representative duplicate soil samples were additionally collected for quality control measures.

Soil samples from boring B13 were additionally sub-sampled via EPA Method 5035 to preserve samples for VOC analysis. EPA Method 5035 preservation consisted of immediate sub-sampling of the recovered soil by extracting three 5-gram aliquots of soil from the acetate liner, placing two into glass vials with sodium bisulfate preservative, and placing one into a glass vial with methanol preservative.

3.3 Encountered Soil Types

Soils encountered during this assessment were classified as follows:

Shallow soils (approximately 0 to 3.5 feet bgs): Generally sandy silt (USCS soil type classification ML), silt (ML), or clayey silt (ML); light brown, medium brown, reddish brown, dark brown; loose to medium density; low to medium plasticity, moist.

PID readings ranged from 0.0 parts per million (ppm) to a maximum of 180 parts per million. Based on the elevated PID readings, the two samples with the highest PID readings (B6-0.5 and B18-3) were

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submitted for VOC analysis by EPA Method 8260B. However, the PID readings are likely the result of decomposing organic matter in the soil that was identified during sampling in these locations and all VOC concentrations were below reportable limits.

Groundwater was encountered at the Site during the advancement of boring B13 at a depth of approximately 11.5 feet bgs.

Boring logs with borehole completion diagrams are included as Appendix A.

3.4 SOIL VAPOR PROBE INSTALLATION

Upon completion of soil sampling, boring B13 was immediately converted into a temporary dual-nested soil vapor sampling probe, with probes installed at depths of 5 and 10 feet bgs. Following the completion of soil sampling, the bottom of the borehole was backfilled with dry bentonite granules to a depth of 10.5 feet below ground surface; the deeper of two intended soil vapor sample depths. A six-inch interval of clean sand was then placed into the bottom of the borehole. A 1-inch porous probe tip connected to ¼-inch outer diameter Nylaflow® tubing was then lowered into the borehole to the target sample depth of 10 feet bgs. An additional six inches of sand were then placed in the borehole, embedding the probe tip within a 1-foot-thick sand pack. Approximately six inches of dry bentonite granules were placed above the sand pack, and the boring was subsequently backfilled with bentonite granules and hydrated in six-inch lifts to a depth of 5.5 feet bgs. A six-inch interval of clean sand was then placed into the bottom of the borehole. A second 1-inch porous probe tip connected to ¼-inch outer diameter Nylaflow® tubing was then lowered into the borehole to the target sample depth of five feet bgs. An additional six inches of sand were then placed in the borehole, embedding the probe tip within a 1-foot-thick sand pack. Approximately six inches of dry bentonite granules were placed above the sand pack, and the boring was subsequently backfilled with bentonite granules and hydrated in six-inch lifts to ground surface. To confirm that the probes were built to specifications, construction of each probe was continuously monitored by measuring the depth to the deposited materials within the borehole to verify that no bridging occurred. Following installation, the probe tubing was cut near the surface, labeled, and capped with a gas-tight valve. The soil vapor construction diagram is provided as part of the boring log of boring B13 in Appendix A.

3.4.1 SOIL VAPOR SAMPLING

On July 11, 2018, after subsurface conditions were allowed to equilibrate overnight, EFI Global directed Jones Environmental to sample the soil vapor probes. In total, three soil vapor samples (one sample per vapor probe and one duplicate sample) were collected.

3.4.1.1 Purge and Sample Train

The apparatus used to conduct purging and sampling was constructed by securing an on/off valve to the soil vapor sampling probe head and routing the vapor stream through a vacuum pump at a flow rate of approximately 200 milliliters per minute (ml/min).

3.4.1.2 Probe Volume Calculations

Prior to purging and sampling, the internal volume of each probe was calculated. Probe volume calculations accounted for the probe tubing, tip, sand pack.

3.4.1.3 Shut-In Testing

Upon securing the purge and sample train to each vapor probe, a shut-in test was conducted to check for leaks in the above-ground sampling system. The above-ground valves, lines and fittings downstream from the top of the probe were assembled, and the system was evacuated to establish a vacuum in the sampling train. The sample train was observed for approximately one minute to verify no observable reduction in

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vacuum was observed. In the event a loss in vacuum was observed, the sample train was re-adjusted and the test repeated.

Upon verification of sample train integrity, efforts were made to minimize disturbance and alteration to the apparatus until completion of purging and vapor sample collection.

3.4.1.4 Leak Testing

Leakage during soil-gas sampling may dilute samples with ambient air and produce results that underestimate actual site concentrations or contaminate the sample with external contaminants. A leak test was conducted at every probe location during the collection of each soil vapor sample.

A mixture of n-pentane, n-hexane, and n-heptane was selected as the leak check compound. During purging and sampling at each location, a vial of the leak check compound was placed near locations where ambient air could enter the sampling system or where cross-contamination may occur immediately before sampling (i.e. the location of vapor probe surface completion and along the sampling train).

3.4.1.5 Probe Purge and Sampling

Upon verification of the shut-in test, each probe was purged for three probe volumes at a flow rate of approximately 200 ml/min. No vacuum within the sample train was observed during the process in any probe location.

Upon completion of the probe purge, soil vapor samples were collected in 1-liter, Tedlar® bags. Chain-of-custody documentation was maintained from sample collection through transportation to Jones Environmental's state-certified analytical laboratory in Santa Fe Springs, California. Upon completion of soil vapor sampling, the temporary soil vapor probes were removed, and the boreholes were sealed at the surface with concrete. Details regarding the soil vapor investigation, including sampling procedures, quality assurance/quality control (QA/QC) procedures (including leak testing), and analytical results, are provided in the certified analytical report in Appendix B.

3.5 INVESTIGATIVE-DERIVED WASTE MANAGEMENT

Soil cuttings and a small amount of decontamination water generated during the drilling of soil borings were placed in a Department of Transportation (DOT)-approved 55-gallon drum and stored at the Site pending transport to an appropriate disposal facility. The drum was identified with a label including the name of waste generator, type of waste (soil or water), and accumulation date.

One composite sample was collected from the soil cuttings in the drum and analyzed for VOCs by EPA Method 8260B, total petroleum hydrocarbons (full-range carbon chain) by EPA Method 8015M and Title 22 metals by EPA Methods 6010B/7471A. The results are included in Appendix B.

The investigative derived waste was transported to the Crosby & Overton disposal facility in Long Beach, California on December 26, 2018, under applicable manifesting procedures. The waste manifest is included as Appendix C.

4.0 CHEMICAL ANALYSIS

Select soil samples and all soil vapor samples were submitted for chemical analysis. Soil chemical analysis was conducted by Eurofins Calscience of Garden Grove, California. Soil vapor sampling and chemical analysis was conducted by Jones Environmental. Laboratory reports and chain-of-custody documentation are provided as Appendix B.

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4.1 SOIL ANALYTICAL SCHEDULE

Select soil samples were submitted for one or more of the following analytical methods:

- OCPs by EPA Method 8081A;
- PCBs by EPA Method 8082;
- Title 22 Metals by EPA Method 6010B;
- Lead by EPA Method 6010B;
- Arsenic by EPA Method 6020;
- Total Petroleum Hydrocarbons – carbon chain (TPHcc) analysis by EPA Method 8015M; and
- VOCs by EPA Method 8260B.

A summary of sample locations, sample IDs, depths, and chemical analysis is presented in Table 1.

4.2 SOIL VAPOR ANALYTICAL SCHEDULE

All soil vapor samples were analyzed for Gasoline-Range Organics (GRO) by Gas Chromatograph/Mass Spectrometry Detection (GC/MS) and VOCs by EPA Method 8260B.

5.0 ANALYTICAL RESULTS

This section presents chemical analytical results of soil and soil vapor analysis.

5.1 SOIL ANALYTICAL RESULTS

The section presents analytical results for soil chemical analysis. Select soil samples were analyzed for OCPs, PCBs, Title-22 metals, TPHcc and VOCs.

5.1.1 OCPS IN SOIL

A summary of OCPs in soil is presented in Table 2. Chlordane, 4,4'-DDD, 4,4'-DDE, 4'4-DDT, and dieldrin were detected in soil. Detected concentrations of OCPs were evaluated against Site Specific Action Levels (SSALs). SSALs for OCPs were sourced from the EPA's Regional Screening Level (RSL) Summary Table (Target Risk = 1E-06, Target Hazard Quotient = 1.0; November 2018) residential-scenario data set.

Concentrations are summarized as follows:

- Chlordane – Detected in 24 soil samples analyzed, including duplicates. Concentrations ranged from 50 micrograms per kilogram (µg/kg) in sample B43C-0.5 to 710 µg/kg in sample B61-0.5.

  The RSL for chlordane is 1,700 µg/kg. None of the detected concentrations of chlordane exceeded this screening criterion.

- 4,4'-DDD – Detected in six (6) soil samples analyzed. Concentrations ranged from 5.1 µg/kg in sample B62-0.5 to 15 µg/kg in sample B61C-0.5.

  The RSL for 4,4'-DDD is 1,900 µg/kg. None of the detected concentrations of 4,4'-DDD exceeded this screening criterion.

- 4,4'-DDE – Detected in 44 soil samples analyzed. Concentrations ranged from 4.9 µg/kg in sample B62-0.5 to 560 µg/kg in sample B61-0.5.

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The RSL for 4,4'-DDE is 2,000 µg/kg. None of the detected concentrations of 4,4'-DDE exceeded this screening criterion.

- 4,4'-DDT – Detected in 19 soil samples analyzed. Concentrations ranged from 5.3 µg/kg in sample B54-0.5 to 590 µg/kg in sample B61-0.5.

  The RSL for 4,4'-DDT is 1,900 µg/kg. None of the detected concentrations of 4,4'-DDT exceeded this screening criterion.

- Dieldrin – Detected in 15 soil samples analyzed. Concentrations ranged from 6.6 µg/kg in sample B62-0.5 to 74 µg/kg in sample B5-0.5.

  The RSL for dieldrin is 34 µg/kg. Detected concentrations of dieldrin in B5-0.5 and B5-1.5 (74 µg/kg and 59 µg/kg, respectively) exceeded this screening criterion. The concentrations in the 3-foot sample from boring B5 and the 0.5-foot samples from step-out borings B5A, B5B, and B5C did not exceed the RSL, which indicates that the elevated concentrations of dieldrin are localized in the location of boring B5 and limited to the upper 1.5 feet of soil. No other detected concentration of dieldrin exceeded the RSL. Based on the exceedances of dieldrin in soil above the RSL of 34 µg/kg, EFI Global recommends the completion of a Remedial Action Work Plan (RAW) for the removal of dieldrin impacted soils in the area of sampling location B5.

- No other OCPs were detected above laboratory detection limits in soil.

5.1.2 PCBs in Soil

A summary of PCBs in soil is presented in Table 3. PCBs were not detected above laboratory reporting limits in any of the samples analyzed.

5.1.3 Title 22 Metals in Soil

A summary of Title 22 Metals analytical results in soil is presented in Table 2. Concentrations of antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, zinc, and mercury were detected in one or more soil samples analyzed.

Detected concentrations of lead and arsenic in soil were evaluated against screening levels set by LAUSD OEHS (80 mg/kg and 12 mg/kg for lead and arsenic, respectively). The screening levels for the remaining Title 22 metals were sourced from the EPA's RSL Summary Table (Target Risk = 1E-06, Target Hazard Quotient = 1.0; November 2018) residential-scenario data set.

Other than arsenic, lead, chromium, and thallium, no detected concentrations exceeded screening levels.

5.1.3.1 Arsenic

Detected in all soil samples analyzed. Concentrations ranged from 1.49 milligrams per kilogram (mg/kg) in sample B14-0.5 to 36.2 mg/kg in sample B11A-0.5.

The SSAL for arsenic is 12 mg/kg with outliers allowed if the maximum concentration is at or below 24 mg/kg and the 95% upper confidence limit (UCL) is at or below 12 mg/kg (*Scope of Services: PEA Equivalent* document dated April 23, 2018). A total of 23 arsenic concentrations exceeded the SSAL of 12 mg/kg and 5 concentrations exceeded the maximum allowable concentration of 24 mg/kg. The arsenic concentrations in soil samples B9-0.5 (28.4 mg/kg), B9-1.5 (25.5 mg/kg), B11A-0.5 (36.2 mg/kg), B37-0.5 (24.2 mg/kg), and B37C-0.5 (30.1 mg/kg) exceed the maximum allowable concentration of 24 mg/kg. Based on the exceedances of arsenic above maximum allowable concentration in soil samples collected from sampling locations B9, B11A, B37, and B37C, EFI Global recommends "housecleaning action" for the removal of arsenic impacted soils in these areas.

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The detected concentrations of arsenic which did not exceed the maximum allowable concentration of 24 mg/kg provided the soil data necessary to calculate a 95% UCL. The 95% UCL was calculated using statistical software (ProUCL 5.0), developed by the USEPA, as a method to determine a reasonable estimate of the exposure point concentration on-site.

Analytical results for the 1.5-foot and 3-foot soil samples from borings B11 and B37 indicated arsenic concentrations that did not exceed the maximum allowable concentration of 24 mg/kg, which suggests that the elevated arsenic concentrations are limited to the upper 1.5 feet of soil in these locations. Additionally, the 3-foot soil sample from boring B9 had an arsenic concentration below 24 mg/kg, which suggests that the elevated arsenic concentrations are limited to the upper 3 feet in this location. Based on the exceedances of arsenic above the maximum allowable concentration of 24 mg/kg, EFI Global recommends "hotspot" removal of the arsenic-impacted soils in the areas of sampling locations B9, B11, and B37.

The remaining detected concentrations of arsenic which did not exceed the maximum allowable concentration of 24 mg/kg provided the soil data necessary to calculate a 95% UCL. To calculate the 95% UCL, the following detections were removed to model a limited hot-spot removal scenario:

- All arsenic data above 24 mg/kg: B9-0.5 (28.4 mg/kg), B9-1.5 (25.5 mg/kg), B11A-0.5 (36.2 mg/kg), B37-0.5 (24.2 mg/kg), and B37C-0.5 (30.1 mg/kg); and
- Arsenic data down to 2.5 ft bgs in location B11: B11-0.5 (21.1 mg/kg), B11-1.5 (15.2 mg/kg).

Depth (ft bgs)	Arsenic concentrations after hot-spot removal scenario					
	Number of Observations	Maximum (mg/kg)	Mean (mg/kg)	Standard Deviation	95 UCL (mg/kg)	95 UCL Method
0-0.5	118	21.4	7.934	3.492	8.481	95% Approximate Gamma
1-1.5	9	17	9.65	3.782	11.99	Student's-t
2.5-3	6	13.5	8.022	3.197	10.65	Student's-t

The statistical analysis indicates if a limited hot-spot removal at locations B9, B11, B11A, B37 and B37C is performed, the site-wide SSAL of 12 mg/kg with maximum allowable concentration of 24 mg/kg can be achieved.

The statistical results from ProUCL 5.0 are presented in Appendix D.

5.1.3.2 Lead

Detected in all soil samples analyzed. Concentrations ranged from 1.67 mg/kg in sample B52-3 to 228 mg/kg in sample B37C-0.5.

The SSAL for lead is 80 mg/kg. The lead concentrations in soil samples B37-1.5 (156 mg/kg), B37C-0.5 (228 mg/kg), and B61-0.5 (87.6 mg/kg) exceed the SSAL for lead of 80 mg/kg. The 3-foot samples from borings B37 and B61 had significantly lower concentrations of lead, which suggests that the elevated lead concentrations are limited to the upper 3 feet of soil. No other concentration of lead in soil exceeded the SSAL. Based on the exceedances of lead in soil above the SSAL of 80 mg/kg, EFI Global recommends the completion of a RAW for the removal of lead impacted soils in the areas of sampling locations B37 and B61.

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A total of six soil samples in which the Total Threshold Limit Concentration (TTLC) concentration for lead exceeded 50 mg/kg were submitted for leachable lead analysis. Results of the leachable lead analysis are discussed in Section 6.0.

5.1.3.3 Chromium

Detected in all soil samples analyzed. Concentrations ranged from 6.31 mg/kg in sample B19-0.5 to 45.7 mg/kg in sample B43C-0.5. There is no RSL established for total chromium. A study which developed a comprehensive, scientific database on background concentrations of trace and major elements in California (*Background Concentrations of Trace and Major Elements in California Soils*, Bradford, et al., 1996) determined that background concentrations of chromium in California ranged from 23 mg/kg to 1,579 mg/kg. The detected concentrations of chromium at the Site are at the lower end of this background range and appear to be of a single population with no significant outliers. Therefore, these concentrations are considered to be background and not of concern.

5.1.3.4 Thallium

Detected in 35 soil samples analyzed. Concentrations ranged from 0.787 mg/kg in sample B43-1.5 to 2.31 mg/kg in sample B58-0.5. The SSAL for thallium is 0.78 mg/kg. All detected concentrations of thallium exceeded this screening criterion. A study conducted at 14 Air Force installations in California (*Naturally Occurring Concentrations of Inorganic Chemicals in Groundwater and Soil at California Air Force Installations*, Hunter, et al., March 10, 2005) determined that the 99th percentile of thallium concentrations, considered a good representation of background concentrations is 175 mg/kg. No detections of thallium exceeded this screening criterion. Additionally, thallium was detected at a depth of 3 feet bgs in borings B9, B11, and B37. The shallow soil samples from these locations had thallium concentrations which did not exceed laboratory detection limits, which indicates that the thallium concentrations at 3 feet bgs do not originate from the surface. Furthermore, concentrations of thallium were detected throughout the Site and appear to be of one single population with no significant outliers. Based on multiple lines of evidence, the concentrations of thallium detected at the Site do not appear to originate from a release and therefore are considered background and not of significant concern.

5.1.4 TPH AND VOCS IN SOIL

Petroleum hydrocarbons can be characterized by the length of their constituent carbon chains. Carbon C4-C12, C13-C22, and C23-C36 are commonly interpreted as gasoline (TPH-g), diesel (TPH-d), and oil (TPH-o) range hydrocarbons, respectively. A full carbon chain analysis (TPHcc) includes all the petroleum hydrocarbons C4 through C44.

Analyses of soil samples from one boring advanced adjacent to the clarifier (B13) for TPHcc indicates that TPH-o was detected at a concentration of 19.1 mg/kg in sample B95-0.5. This concentration did not exceed the Maximum Soil Screening Level for TPH-o of 1,000 mg/kg for sites with a groundwater depth of less than 20 feet below the sampling depth, as published in the Los Angeles Regional Water Quality Control Board's *Interim Site Assessment and Cleanup Guidebook* (May 1996). Therefore, this concentration is not expected to pose a significant threat to groundwater. TPH-g and TPH-d were not detected above laboratory reporting limits in the soil samples analyzed for TPHcc.

VOCs were not detected above laboratory reporting limits in any of the soil samples analyzed. Therefore, such compounds are not expected to represent a significant concern at the Site.

5.2 SOIL VAPOR ANALYTICAL RESULTS

A summary of soil vapor analytical results in soil vapor are presented in Table 6.

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5.2.1 VOCs in Soil Vapor

Tetrachloroethylene (PCE), toluene, 1,2,4-trimethylbenzene (1,2,4-TMB), and m,p-xylene were detected in soil vapor. Results are summarized as follows:

- PCE, a chlorinated solvent typically utilized in dry cleaning operations, was detected in all three soil vapor samples at concentrations of 0.010 micrograms per liter (µg/l), 0.016 µg/l, and 0.011 µg/l in samples B13-SV-5', B13-SV-5' REP, and B13-SV-10', respectively.
- Toluene, a fuel-related compound, was detected in soil vapor sample B13-SV-5' at a concentration of 0.021 µg/l.
- 1,2,4-TMB, a fuel-related compound, was detected in soil vapor sample B13-SV-5' REP at a concentration of 0.010 µg/l.
- M,p-Xylene, a fuel-related compound, was detected in soil vapor sample B13-SV-5' at a concentration of 0.0510 µg/l.
- 4-isopropyltoluene, a naturally occurring aromatic organic compound, was detected in soil vapor sample B13-SV-5' at a concentration of 0.017 µg/l.

A preliminary method to evaluate if detected VOCs represent the potential for infiltration into building structures at unacceptable concentrations has been developed by the California Department of Toxic Substances Control (DTSC) in the *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* document (DTSC, October 2011). As soil vapors migrate vertically from the subsurface to the sub-slab and potentially into indoor air, subsurface structures including the slab attenuate concentrations of VOCs from the subsurface prior to their potential intrusion into the building. As a preliminary screening evaluation tool, the *Vapor Intrusion Guidance* provides default attenuation factors for soil vapor data. These attenuation factors can be used in conjunction with screening levels that have been established for indoor air. The *Vapor Intrusion Guidance* provides the following formula to estimate indoor air concentrations based on soil vapor data:

$$\alpha = (c_{indoor} / c_{soil\ vapor})$$

where:

α	=	Attenuation Factor
c_{indoor}	=	Indoor Air Concentration
$c_{soil\ vapor}$	=	Soil Vapor Concentration

There are two methods whereby this formula can be used to evaluate site-specific analytical data, as follows:

- Method 1: Soil vapor sample analytical results can be multiplied by the attenuation factor to calculate the estimated concentrations of VOCs that would be anticipated in indoor air. These estimated concentrations can then be compared directly to the established screening levels for indoor air.
- Method 2: The established screening levels for indoor can be divided by the attenuation factor to convert them into screening levels for soil vapor. The soil vapor analytical results can then be compared to these calculated screening levels, which represent the maximum concentrations of VOCs that may be present in soil vapor without resulting in an unacceptable risk to building occupants.

Indoor air screening levels were sourced from the EPA's RSLs as directed by LAUSD OEHS. The most recent RSLs publication is dated November 2018.

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Preliminary soil vapor screening levels were calculated for each VOC detected in soil vapor using Method 2 detailed above.

For the case of an existing residential/sensitive use building where soil vapor data are collected from near the contaminant source, an α of 0.002 has been established. The calculated screening levels are summarized in Table 6.

As shown in Table 6, none of the detected VOC concentrations exceeded their respective site-specific screening levels. Therefore, the detected concentrations of VOCs are considered *de minimis* and are not expected to pose a significant risk to site occupants.

5.2.2 GRO IN SOIL VAPOR

Gasoline-range organics (GRO) was detected in soil vapor sample B13-SV-5' at a concentration of 8.41 µg/l. There is no established RSL for GRO. However, the concentrations were detected in an outdoor area and thus, there is no potential for vapor intrusion. Furthermore, GRO was not detected in the 10-foot soil vapor sample. As such, the detected concentrations of GRO are considered *de minimis* and are not expected to pose a significant threat to site occupants or the environment.

5.2.3 LEAK TESTING RESULTS

N-pentane, n-hexane, and n-heptane, the compounds which composed the leak check compound mixture utilized during soil vapor purging and sampling, were not detected in any samples above the reporting limit of 0.400 µg/l.

Non-detections of the leak check compound verify the integrity of the soil vapor purging and sampling protocol, and provide support that soil vapor samples collected and analyzed are representative of subsurface conditions.

6.0 PROPOSED REMEDIAL ACTION WORK PLAN

Based on the exceedances of dieldrin, arsenic, and lead above their respective SSALs, EFI Global recommends the completion of a RAW for the removal of impacted soils in the areas of the sampling locations listed in the table below:

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Proposed Excavation Locations	Borings with Exceedances	Driving Chemical	Initial Proposed Excavation Area (ft^2)	Initial Proposed Excavation Depth (ft bgs)	Initial Proposed Excavation Volume (BCY)
B5	B5	Dieldrin	25	3	3
B9	B9	Arsenic	25	3	3
B11	B11A	Arsenic	25	3	3
B37	B37, B37C	Arsenic, Lead	50	3	6
B61	B61	Lead	25	2	2
				Total Volume (BCY)	17
				Total Volume (LCY)	26

Notes:
ft^2 = square feet
ft bgs = feet below ground surface
BCY = bank cubic yards
LCY = loose cubic yards

The proposed excavations to be included in the RAW are illustrated in Figures 3 through 6. The lateral boundaries of each proposed excavation are a distance of approximately five (5) feet in all cardinal directions (N, S, E, and W) from the sampling location in which the exceedance was detected, and the depth of the excavation is approximately 1.5 feet below the depth of the detected exceedance. The total volume of the proposed excavated soil is approximately 17 bank cubic yards (BCY) or 26 loose cubic yards (LCY). The extents of the impacted soil excavations are predicted minimums based on the existing data, with actual extents likely to vary based on field observations and confirmation sampling.

7.0 SOLID WASTE CHARACTERIZATION

Detected concentrations of OCPs and Title 22 metals in soil samples (TTLCs) were compared to hazardous waste threshold concentrations as outlined in Title 22 of the California Code of Regulations (22 CCR) and Title 40 of the Code of Federal Regulations (40 CFR) for soil profiling purposes in preparation for excavation during redevelopment activities.

None of the detected metals concentrations exceeded TTLC concentrations which would trigger California hazardous waste thresholds. A total of six soil samples in which the TTLC concentration for lead exceeded 50 mg/kg were submitted for leachable lead analysis by the California Department of Health Services (DHS) Wet Extraction Test (WET) method. The leachable lead concentrations ranged between 0.905 milligrams per liter (mg/l) in sample B37-0.5 to 4.74 mg/l. None of the concentrations exceeded the California hazardous waste threshold for leachable lead of 5.0 mg/l.

Petroleum hydrocarbon impacts in soil do not drive hazardous waste criteria.

Data generated during this investigation indicates that the soil assessed during this investigation can likely be disposed of as non-hazardous regulated waste if exported from the Site; however a final waste characterization may be necessary at the time of soil disposal to verify the waste profile.

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8.0 CONCLUSIONS AND RECOMMENDATIONS

EFI Global has performed a PEA-E for the property located at 5461 Winnetka Avenue in Woodland Hills, California. EFI Global conducted this PEA-E to assess the soil in select portions of the Site for OCP, Title 22 metals, PCB, and VOC impacts from the former site operations, and to evaluate the Site for a potential vapor intrusion condition (pVIC) from potential releases from the on-site three-stage clarifier

Dieldrin was detected in 15 soil samples analyzed at concentrations ranging between 6.6 µg/kg in sample B62-0.5 to 74 µg/kg in sample B5-0.5. The RSL for dieldrin is 34 µg/kg. Detected concentrations of dieldrin in B5-05 and B5-1.5 (74 µg/kg and 59 µg/kg, respectively) exceeded this screening criterion. The concentrations in the three-foot sample from boring B5 and the 0.5-foot samples from step-out borings B5A, B5B, and B5C did not exceed the RSL, which indicates that the elevated concentrations of dieldrin are localized in the location of boring B5 and limited to the upper 1.5 feet of soil. No other detected concentration of dieldrin , or any other OCPs, exceeded the RSL.

Arsenic was detected in all soil samples analyzed at concentrations ranging between 1.49 milligrams per kilogram (mg/kg) in sample B14-0.5 to 36.2 mg/kg in sample B11A-0.5. A total of 23 arsenic detections exceeded the site-wide SSAL of 12 mg/kg and five detections exceeded the maximum allowable concentration of 24 mg/kg. When detections above 24 mg/kg were removed from the data set (plus data to 2.5 ft bgs in location B11), each of the three soil horizons 0-0.5 ft bgs, 1-1.5 ft bgs and 2.5-3 ft bgs meet the site-wide SSAL of 12 mg/kg.

Lead was detected in all samples analyzed at concentrations ranging from 1.67 mg/kg in sample B4-0.5 to 228 mg/kg in sample B37C-0.5. The lead concentrations in soil samples B37-1.5 (156 mg/kg), B37C-0.5 (228 mg/kg), and B61-0.5 (87.6 mg/kg) exceed the SSAL for lead of 80 mg/kg.

No PCBs, petroleum hydrocarbons, or VOCs were detected in any soil samples analyzed.

PCE, toluene, 1,2,4-TMB, and m,p-xylene were detected in soil vapor. None of the detected VOC concentrations exceeded their respective site-specific screening levels. Therefore, the detected concentrations of VOCs are considered *de minimis* and are not expected to pose a significant threat to site occupants.

GRO was detected in soil vapor sample B13-SV-5' at a concentration of 8.41 µg/l. There is no established RSL for GRO. However, the concentrations were detected in an outdoor area and thus, there is no potential for vapor intrusion. Furthermore, GRO was not detected in the 10-foot soil vapor sample. As such, the detected concentrations of GRO are considered *de minimis* and are not expected to pose a significant threat to site occupants or the environment.

Data generated during this investigation indicates that the soil assessed during this investigation can likely be disposed of as non-hazardous regulated waste if exported from the Site; however a final waste characterization may be necessary at the time of soil disposal to verify the waste profile.

EFI Global recommends the completion of a RAW for the removal of impacted soil at the following locations:

- B5 to 3 ft bgs due to elevated dieldrin.
- B9 to 3 ft bgs due to elevated arsenic.
- B11 and B11A to 3 ft bgs due to elevated arsenic.
- B37 and B37C to 3 ft bgs due to elevated arsenic and lead.
- B61 to 2 feet bgs due to elevated lead.

Following removal of impacted soil, EFI Global recommends confirmation soil sampling be included in the RAW to confirm that the elevated concentrations have been adequately removed.

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9.0 SIGNIFICANT ASSUMPTIONS, LIMITATIONS AND RELIANCE

This report has been prepared in accordance with generally-accepted environmental methodologies and industry standards as they relate to the Data Quality Objectives of the assessment. No warranties, expressed or implied, are made as to the professional services provided under the terms of EFI Global's contract(s) or specified in this report. This assessment has been conducted, in part, based on information, data or reports provided or prepared by others. EFI Global reviews and interprets these documents in good faith and relies that the provided data and documents are true and accurate.

Environmental conditions at the site were assessed or interpreted within the context of EFI Global's contract(s) and existing environmental regulations of applicable jurisdiction(s) as of the date of the report. Regulatory requirements, regulations and guidance are subject to change subsequent to the date of the report. Unless otherwise stated in the report, evaluating compliance of past, present or future owners with applicable local, provincial and federal government laws and regulations was not included within the scope of the assessment.

The environmental assessment is limited by the availability of information at the time of the assessment. The conclusions and recommendations regarding environmental conditions presented in this report are based on a scope of work authorized by the Client. It is possible that unreported conditions impairing the environmental status of the site may have occurred which could not be identified. EFI Global's opinions cannot be extended to portions of the site that were unavailable for direct access and observation reasonably beyond the control of EFI Global or outside of the scope of the assessment. Environmental assessment activities, particularly the sampling of soil, vapor (air), groundwater and structure materials, represent those conditions which are present at the time of sampling within the immediate vicinity of the sample(s) collected. Although sampling plans are developed in an attempt to provide what is interpreted as sufficient coverage within the assessment area to achieve the investigative objectives, no extent of sampling can guarantee all environmental conditions, potential chemicals of concern (man-made or naturally occurring) and concentrations at which they occur have been identified and quantified absolutely. The assessment performed and outlined in this report was based, in part, upon visual observations of the site and attendant structures. It should be noted that compounds, materials or chemicals of potential concern other than those described could be present in the site environment, and the possibility remains that unexpected environmental conditions may be encountered at the site in locations not specifically investigated.

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10.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

This assessment has been conducted with the standards and level of care and skill exercised in such types of investigations, by qualified geologists, engineers, environmental scientists or environmental professionals, in conformance with generally-accepted industry standards and practices.

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Desi Salgado
Project Manager

--DRAFT--

Shayan Simantob
Professional Geologist No. 9296
Principal

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FIGURES

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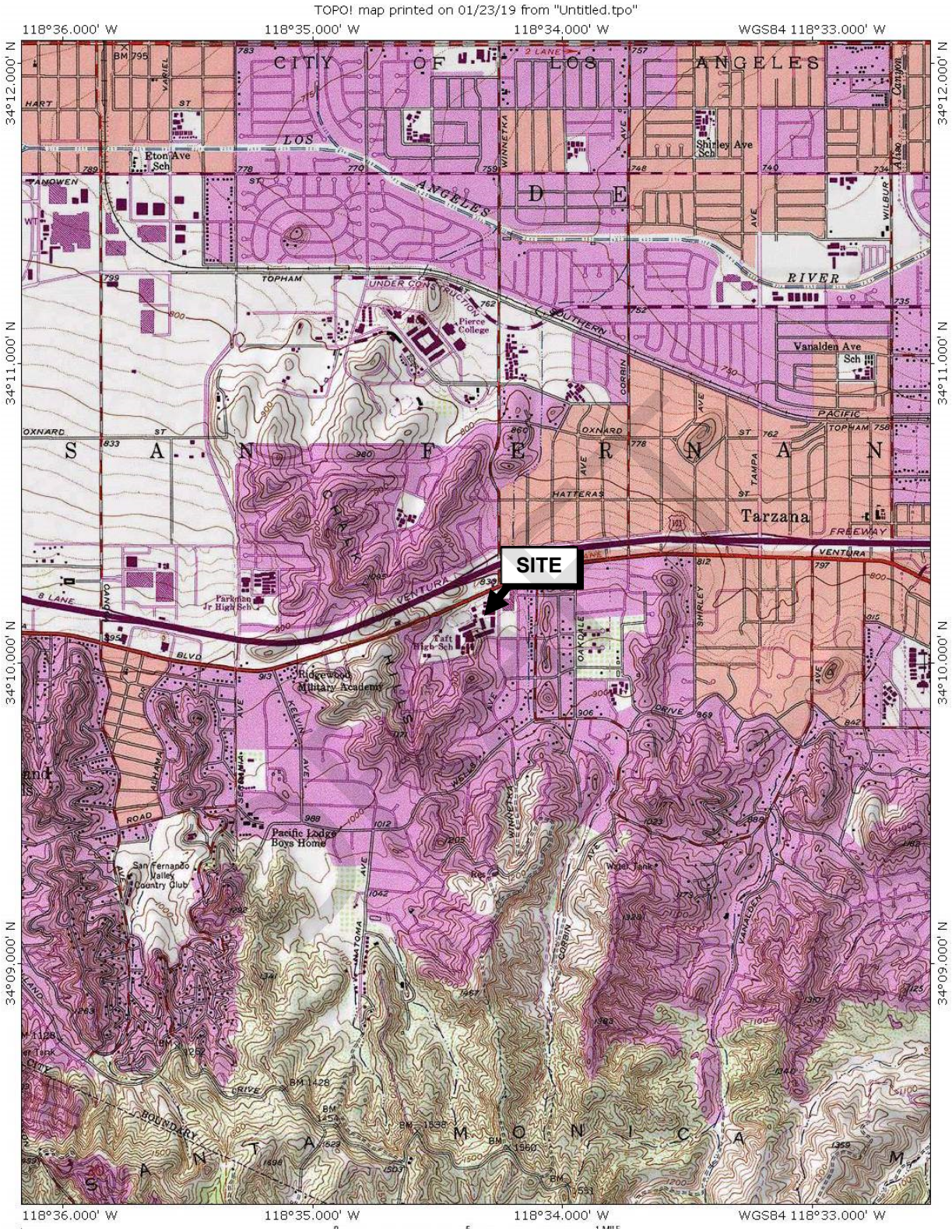


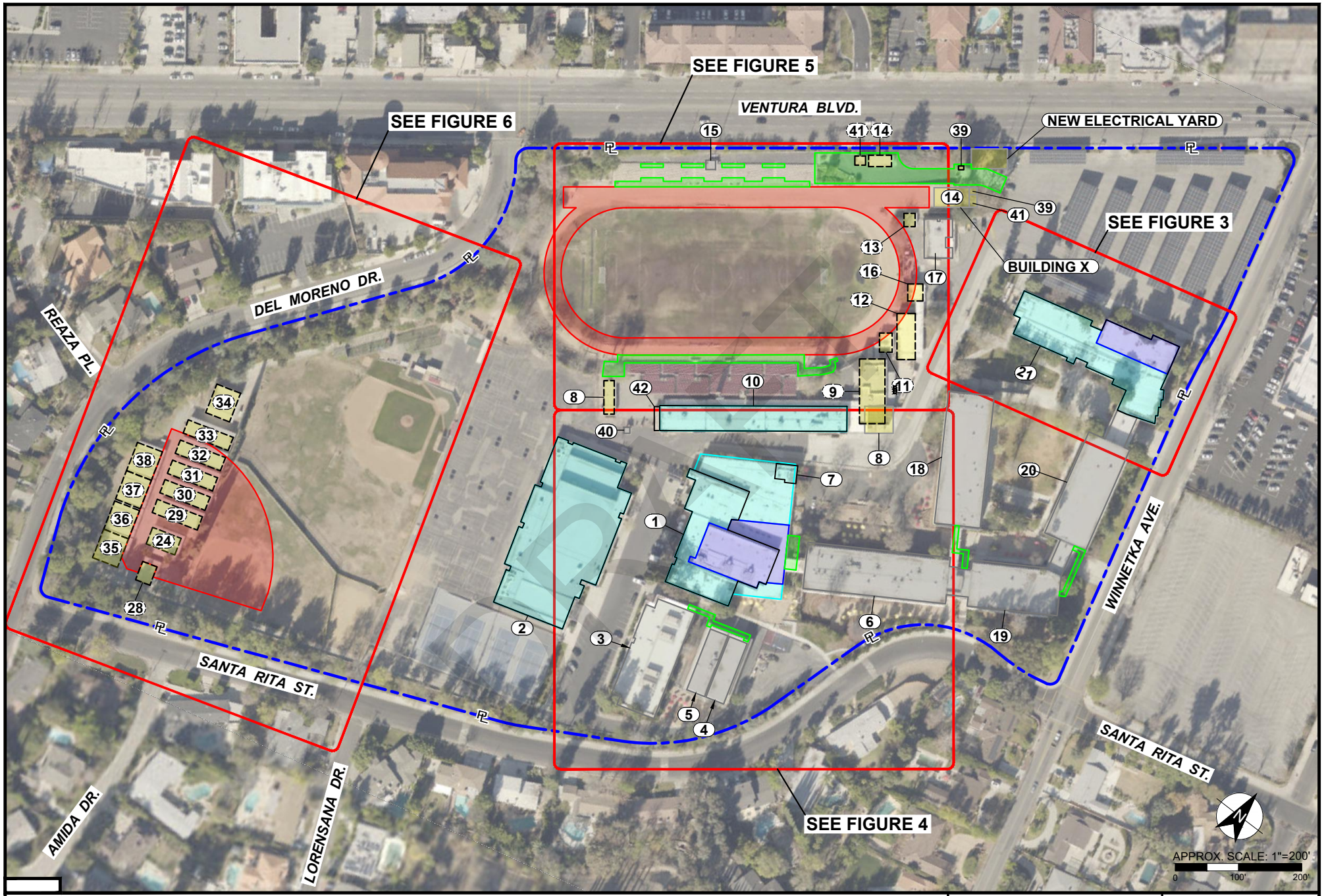
Figure 1
Site Location Map

William Howard Taft Charter High School
5461 Winnetka Avenue
Woodland Hills, California 91364

efi global

Source:
USGS Canoga, CA 7.5 Minute
Topographic Map (1967)

Project Number: 9836003557



PROPERTY LINE
CAFM BUILDING NUMBER
CAFM BUILDING NUMBER (DEMO)

NEW BUILDING/ STRUCTURE
FULL/ MAJOR MODERNIZATION
LIGHT MODERNIZATION
MINOR SCOPE
NEW TRACK & FIELD

DEMOLITION
BARRIER REMOVAL
As ARSENIC IN mg/kg
Pb LEAD IN mg/kg
mg/kg MILLIGRAM PER KILOGRAM
* ARSENIC ANALYZED BY EPA 6010B

SOIL SAMPLING LOCATION
STEP-OUT SAMPLING LOCATION
SOIL VAPOR SAMPLING LOCATION
21.1 CONCENTRATIONS HIGHLIGHTED IN YELLOW EXCEED SITE SPECIFIC ACTION LEVELS
3-STAGE CLARIFIER

AERIAL BASEMAP SOURCE: ESRI

SITE PLAN

5461 WINNETKA AVE.
WOODLAND HILLS, CA 91364

efi global

PN:9836003557	FIGURE
DT: 10/28/2019	2
DB:JE CB:DS	

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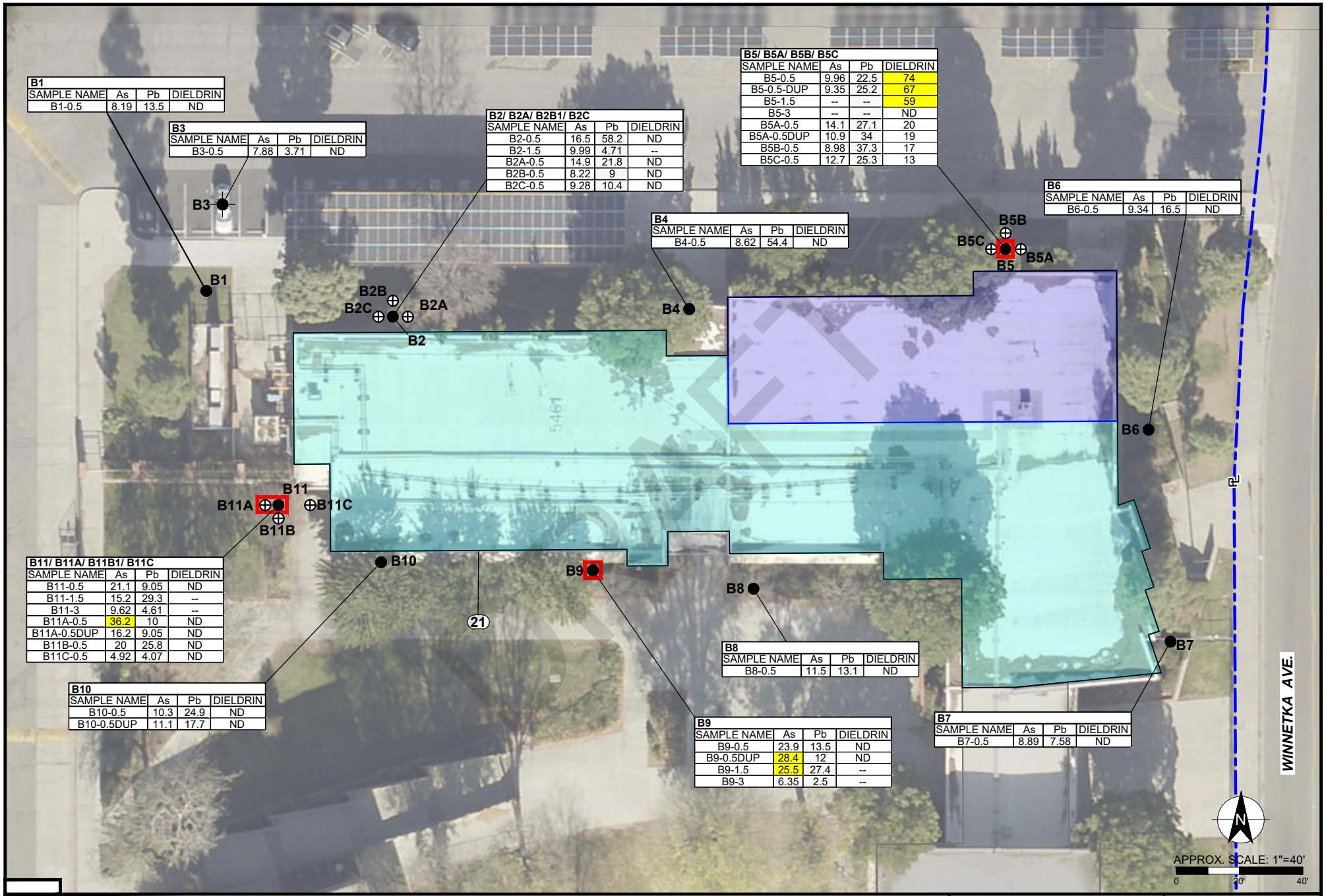

B1

SAMPLE NAME	As	Pb	DIELDRIN
B1-0.5	8.19	13.5	ND

B3

SAMPLE NAME	As	Pb	DIELDRIN
B3-0.5	7.88	3.71	ND

B2/ B2A/ B2B1/ B2C

SAMPLE NAME	As	Pb	DIELDRIN
B2-0.5	16.5	58.2	ND
B2-1.5	9.99	4.71	--
B2A-0.5	14.9	21.8	ND
B2B-0.5	8.22	9	ND
B2C-0.5	9.28	10.4	ND

B5/ B5A/ B5B/ B5C

SAMPLE NAME	As	Pb	DIELDRIN
B5-0.5	9.96	22.5	74
B5-0.5-DUP	9.35	25.2	67
B5-1.5	--	--	59
B5-3	--	--	ND
B5A-0.5	14.1	27.1	20
B5A-0.5DUP	10.9	34	19
B5B-0.5	8.98	37.3	17
B5C-0.5	12.7	25.3	13

B6

SAMPLE NAME	As	Pb	DIELDRIN
B6-0.5	9.34	16.5	ND

B4

SAMPLE NAME	As	Pb	DIELDRIN
B4-0.5	8.62	54.4	ND

B11/ B11A/ B11B1/ B11C

SAMPLE NAME	As	Pb	DIELDRIN
B11-0.5	21.1	9.05	ND
B11-1.5	15.2	29.3	--
B11-3	9.62	4.61	--
B11A-0.5	36.2	10	ND
B11A-0.5DUP	16.2	9.05	ND
B11B-0.5	20	25.8	ND
B11C-0.5	4.92	4.07	ND

B10

SAMPLE NAME	As	Pb	DIELDRIN
B10-0.5	10.3	24.9	ND
B10-0.5DUP	11.1	17.7	ND

B8

SAMPLE NAME	As	Pb	DIELDRIN
B8-0.5	11.5	13.1	ND

B9

SAMPLE NAME	As	Pb	DIELDRIN
B9-0.5	23.9	13.5	ND
B9-0.5DUP	28.4	12	ND
B9-1.5	25.5	27.4	--
B9-3	6.35	2.5	--

B7

SAMPLE NAME	As	Pb	DIELDRIN
B7-0.5	8.89	7.58	ND

PROPERTY LINE
CAFM BUILDING NUMBER
CAFM BUILDING NUMBER (DEMO)
PROPOSED EXCAVATION AREA

NEW BUILDING/ STRUCTURE
FULL/ MAJOR MODERNIZATION
LIGHT MODERNIZATION
MINOR SCOPE
NEW TRACK & FIELD

DEMOLITION
BARRIER REMOVAL
As ARSENIC IN mg/kg
Pb LEAD IN mg/kg
mg/kg MILLIGRAM PER KILOGRAM
* ARSENIC ANALYZED BY EPA 6010B

SOIL SAMPLING LOCATION
STEP-OUT SAMPLING LOCATION
SOIL VAPOR SAMPLING LOCATION
36.2 CONCENTRATIONS HIGHLIGHTED IN YELLOW EXCEED SITE SPECIFIC ACTION LEVELS
3-STAGE CLARIFIER

AERIAL BASEMAP SOURCE: ESRI

SITE PLAN WITH ARSENIC, LEAD & DIELDRIN CONCENTRATIONS

5461 WINNETKA AVE.
WOODLAND HILLS, CA 91364

efi global

PN:9836003557
DT: 11/1/2019
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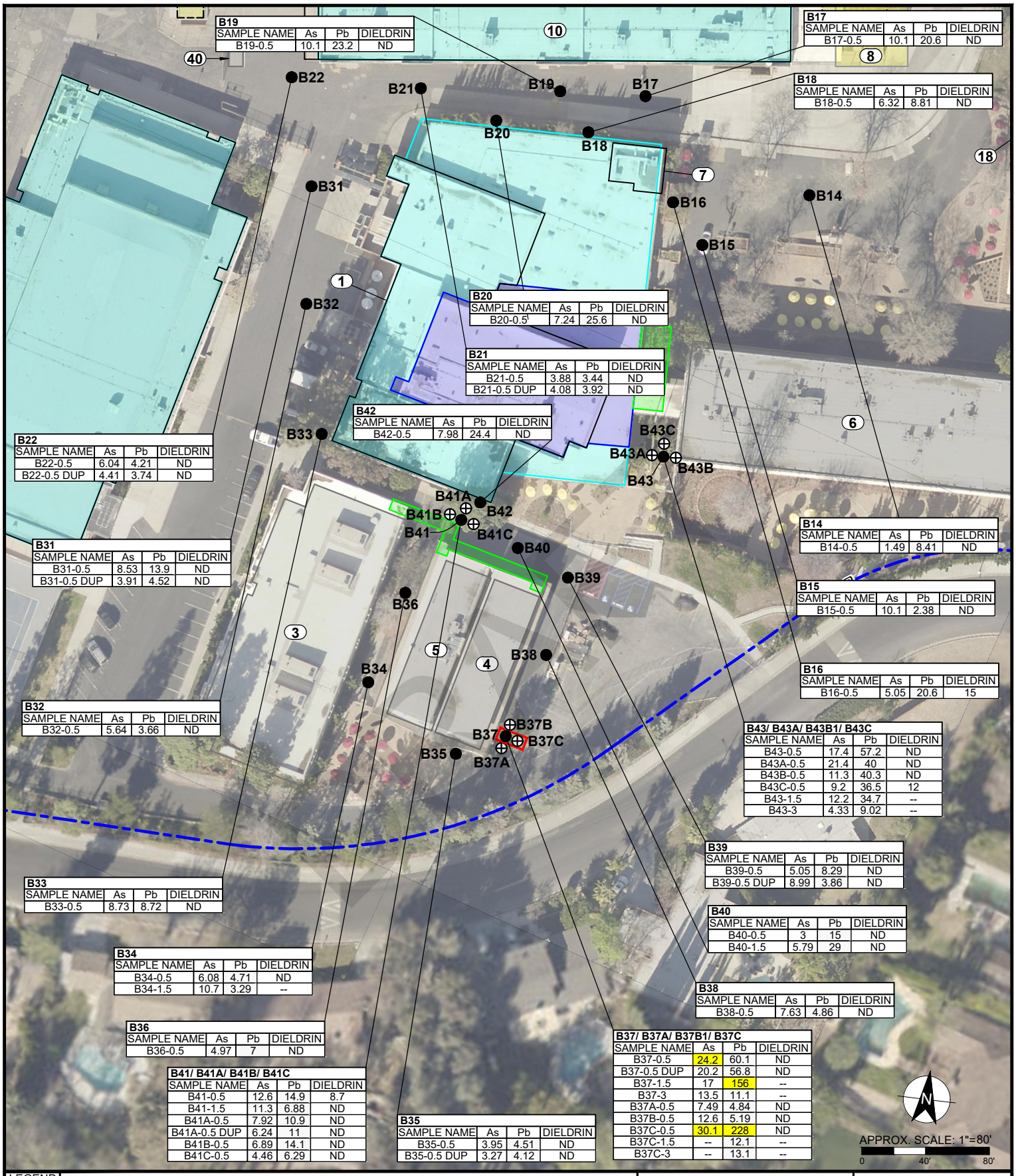
FIGURE 3

K:\AE 2018\Projects 2018\98360 Projects 2018\9836003557_045.00349_5461 Winnetka Ave Woodland Hills CA 91364\05 9836003557_Reports\2019-03 PEA-E Rpt\02 CAD\9836003557_Figures



B19

SAMPLE NAME	As	Pb	DIELDRIN
B19-0.5	10.1	23.2	ND

B17

SAMPLE NAME	As	Pb	DIELDRIN
B17-0.5	10.1	20.6	ND

B18

SAMPLE NAME	As	Pb	DIELDRIN
B18-0.5	6.32	8.81	ND

B20

SAMPLE NAME	As	Pb	DIELDRIN
B20-0.5	7.24	25.6	ND

B21

SAMPLE NAME	As	Pb	DIELDRIN
B21-0.5	3.88	3.44	ND
B21-0.5 DUP	4.08	3.92	ND

B42

SAMPLE NAME	As	Pb	DIELDRIN
B42-0.5	7.98	24.4	ND

B22

SAMPLE NAME	As	Pb	DIELDRIN
B22-0.5	6.04	4.21	ND
B22-0.5 DUP	4.41	3.74	ND

B31

SAMPLE NAME	As	Pb	DIELDRIN
B31-0.5	8.53	13.9	ND
B31-0.5 DUP	3.91	4.52	ND

B14

SAMPLE NAME	As	Pb	DIELDRIN
B14-0.5	1.49	8.41	ND

B15

SAMPLE NAME	As	Pb	DIELDRIN
B15-0.5	10.1	2.38	ND

B16

SAMPLE NAME	As	Pb	DIELDRIN
B16-0.5	5.05	20.6	15

B32

SAMPLE NAME	As	Pb	DIELDRIN
B32-0.5	5.64	3.66	ND

B43/ B43A/ B43B1/ B43C

SAMPLE NAME	As	Pb	DIELDRIN
B43-0.5	17.4	57.2	ND
B43A-0.5	21.4	40	ND
B43B-0.5	11.3	40.3	ND
B43C-0.5	9.2	36.5	12
B43-1.5	12.2	34.7	--
B43-3	4.33	9.02	--

B39

SAMPLE NAME	As	Pb	DIELDRIN
B39-0.5	5.05	8.29	ND
B39-0.5 DUP	8.99	3.86	ND

B33

SAMPLE NAME	As	Pb	DIELDRIN
B33-0.5	8.73	8.72	ND

B40

SAMPLE NAME	As	Pb	DIELDRIN
B40-0.5	3	15	ND
B40-1.5	5.79	29	ND

B34

SAMPLE NAME	As	Pb	DIELDRIN
B34-0.5	6.08	4.71	ND
B34-1.5	10.7	3.29	--

B38

SAMPLE NAME	As	Pb	DIELDRIN
B38-0.5	7.63	4.86	ND

B36

SAMPLE NAME	As	Pb	DIELDRIN
B36-0.5	4.97	7	ND

B37/ B37A/ B37B1/ B37C

SAMPLE NAME	As	Pb	DIELDRIN
B37-0.5	24.2	60.1	ND
B37-0.5 DUP	20.2	56.8	ND
B37-1.5	17	156	--
B37-3	13.5	11.1	--
B37A-0.5	7.49	4.84	ND
B37B-0.5	12.6	5.19	ND
B37C-0.5	30.1	228	ND
B37C-1.5	--	12.1	--
B37C-3	--	13.1	--

B41/ B41A/ B41B/ B41C

SAMPLE NAME	As	Pb	DIELDRIN
B41-0.5	12.6	14.9	8.7
B41-1.5	11.3	6.88	ND
B41A-0.5	7.92	10.9	ND
B41A-0.5 DUP	6.24	11	ND
B41B-0.5	6.89	14.1	ND
B41C-0.5	4.46	6.29	ND

B35

SAMPLE NAME	As	Pb	DIELDRIN
B35-0.5	3.95	4.51	ND
B35-0.5 DUP	3.27	4.12	ND

LEGEND

- PROPERTY LINE
- # CAFM BUILDING NUMBER
- # CAFM BUILDING NUMBER (DEMO)
- NEW BUILDING/ STRUCTURE
- MINOR SCOPE
- LIGHT MODERNIZATION
- NEW TRACK & FIELD
- DEMOLITION
- BARRIER REMOVAL
- FULL/ MAJOR MODERNIZATION
- 30.1 CONCENTRATIONS HIGHLIGHTED IN YELLOW EXCEED SITE SPECIFIC ACTION LEVELS
- SOIL SAMPLING LOCATION
- STEP-OUT SAMPLING LOCATION
- SOIL VAPOR SAMPLING LOCATION
- As ARSENIC IN mg/kg
- Pb LEAD IN mg/kg
- mg/kg MILLIGRAM PER KILOGRAM
- * ARSENIC ANALYZED BY EPA 6010B

AERIAL BASEMAP SOURCE: ESRI

SITE PLAN WITH ARSENIC, LEAD & DIELDRIN CONCENTRATIONS

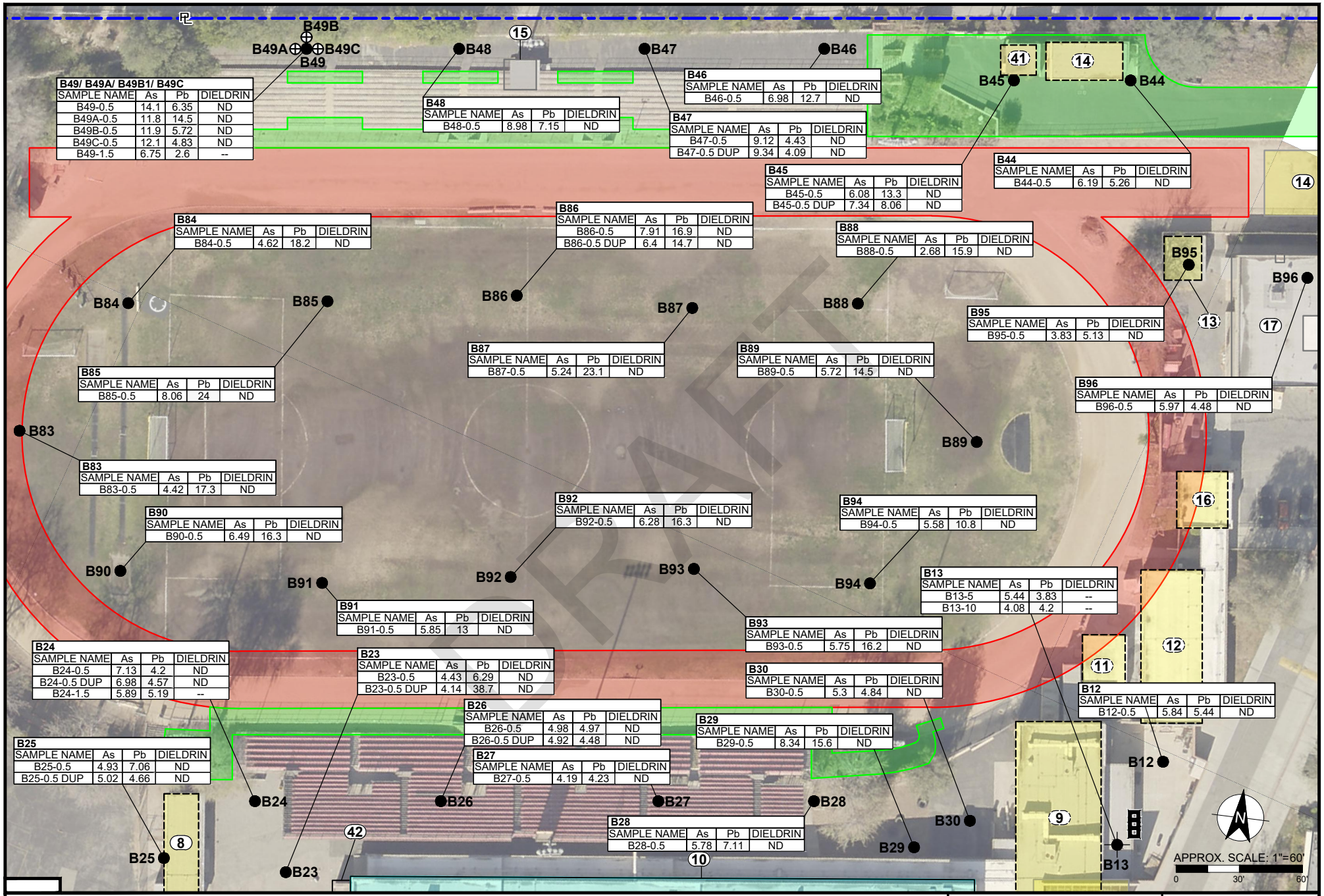
5461 WINNETKA AVE.
WOODLAND HILLS, CA 91364

efi global

PN:9836003557
DT: 11/1/2019
DB:JE CB:DS

FIGURE 4

K:\AE 2018\Projects 2018\98360 Projects 2018\9836003557_045.00349_5461 Winnetka Ave Woodland Hills CA 91364\05 9836003557_Reports\2019-03 PEA-E Rpt\02 CAD\9836003557_Figures



B49/ B49A/ B49B1/ B49C			
SAMPLE NAME	As	Pb	DIELDRIN
B49-0.5	14.1	6.35	ND
B49A-0.5	11.8	14.5	ND
B49B-0.5	11.9	5.72	ND
B49C-0.5	12.1	4.83	ND
B49-1.5	6.75	2.6	--

B48			
SAMPLE NAME	As	Pb	DIELDRIN
B48-0.5	8.98	7.15	ND

B46			
SAMPLE NAME	As	Pb	DIELDRIN
B46-0.5	6.98	12.7	ND

B47			
SAMPLE NAME	As	Pb	DIELDRIN
B47-0.5	9.12	4.43	ND
B47-0.5 DUP	9.34	4.09	ND

B45			
SAMPLE NAME	As	Pb	DIELDRIN
B45-0.5	6.08	13.3	ND
B45-0.5 DUP	7.34	8.06	ND

B44			
SAMPLE NAME	As	Pb	DIELDRIN
B44-0.5	6.19	5.26	ND

B84			
SAMPLE NAME	As	Pb	DIELDRIN
B84-0.5	4.62	18.2	ND

B86			
SAMPLE NAME	As	Pb	DIELDRIN
B86-0.5	7.91	16.9	ND
B86-0.5 DUP	6.4	14.7	ND

B88			
SAMPLE NAME	As	Pb	DIELDRIN
B88-0.5	2.68	15.9	ND

B95			
SAMPLE NAME	As	Pb	DIELDRIN
B95-0.5	3.83	5.13	ND

B87			
SAMPLE NAME	As	Pb	DIELDRIN
B87-0.5	5.24	23.1	ND

B89			
SAMPLE NAME	As	Pb	DIELDRIN
B89-0.5	5.72	14.5	ND

B85			
SAMPLE NAME	As	Pb	DIELDRIN
B85-0.5	8.06	24	ND

B96			
SAMPLE NAME	As	Pb	DIELDRIN
B96-0.5	5.97	4.48	ND

B83			
SAMPLE NAME	As	Pb	DIELDRIN
B83-0.5	4.42	17.3	ND

B92			
SAMPLE NAME	As	Pb	DIELDRIN
B92-0.5	6.28	16.3	ND

B94			
SAMPLE NAME	As	Pb	DIELDRIN
B94-0.5	5.58	10.8	ND

B90			
SAMPLE NAME	As	Pb	DIELDRIN
B90-0.5	6.49	16.3	ND

B13			
SAMPLE NAME	As	Pb	DIELDRIN
B13-5	5.44	3.83	--
B13-10	4.08	4.2	--

B91			
SAMPLE NAME	As	Pb	DIELDRIN
B91-0.5	5.85	13	ND

B93			
SAMPLE NAME	As	Pb	DIELDRIN
B93-0.5	5.75	16.2	ND

B24			
SAMPLE NAME	As	Pb	DIELDRIN
B24-0.5	7.13	4.2	ND
B24-0.5 DUP	6.98	4.57	ND
B24-1.5	5.89	5.19	--

B23			
SAMPLE NAME	As	Pb	DIELDRIN
B23-0.5	4.43	6.29	ND
B23-0.5 DUP	4.14	38.7	ND

B30			
SAMPLE NAME	As	Pb	DIELDRIN
B30-0.5	5.3	4.84	ND

B12			
SAMPLE NAME	As	Pb	DIELDRIN
B12-0.5	5.84	5.44	ND

B26			
SAMPLE NAME	As	Pb	DIELDRIN
B26-0.5	4.98	4.97	ND
B26-0.5 DUP	4.92	4.48	ND

B29			
SAMPLE NAME	As	Pb	DIELDRIN
B29-0.5	8.34	15.6	ND

B25			
SAMPLE NAME	As	Pb	DIELDRIN
B25-0.5	4.93	7.06	ND
B25-0.5 DUP	5.02	4.66	ND

B27			
SAMPLE NAME	As	Pb	DIELDRIN
B27-0.5	4.19	4.23	ND

B28			
SAMPLE NAME	As	Pb	DIELDRIN
B28-0.5	5.78	7.11	ND

PROPERTY LINE
CAFM BUILDING NUMBER
CAFM BUILDING NUMBER (DEMO)
PROPOSED EXCAVATION AREA
AERIAL BASEMAP SOURCE: ESRI

NEW BUILDING/ STRUCTURE
FULL/ MAJOR MODERNIZATION
LIGHT MODERNIZATION
MINOR SCOPE
NEW TRACK & FIELD

DEMOLITION
BARRIER REMOVAL
As ARSENIC IN mg/kg
Pb LEAD IN mg/kg
mg/kg MILLIGRAM PER KILOGRAM
* ARSENIC ANALYZED BY EPA 6010B

SOIL SAMPLING LOCATION
STEP-OUT SAMPLING LOCATION
SOIL VAPOR SAMPLING LOCATION
36.2 CONCENTRATIONS HIGHLIGHTED IN YELLOW EXCEED SITE SPECIFIC ACTION LEVELS
3-STAGE CLARIFIER

SITE PLAN WITH ARSENIC, LEAD & DIELDRIN CONCENTRATIONS

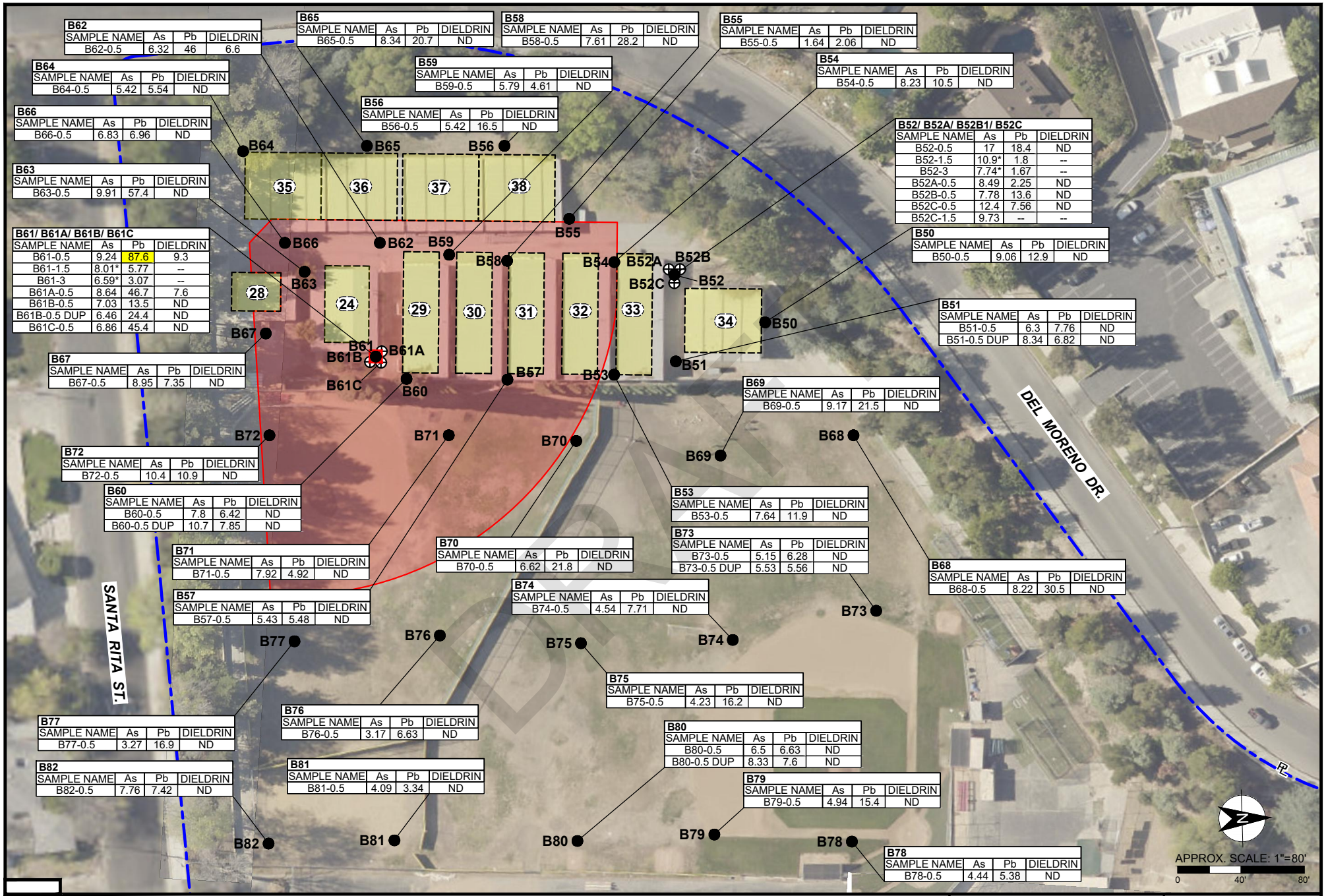
5461 WINNETKA AVE.
WOODLAND HILLS, CA 91364

efi global

PN:9836003557
DT: 11/1/2019
DB:JE CB:DS

FIGURE 5

K:\AE 2018\Projects 2018\98360 Projects 2018\9836003557_045.00349_5461 Winnetka Ave Woodland Hills CA 91364\05 9836003557_Reports\2019-03 PEA-E Rpt\02 CAD\9836003557_Figures



PROPERTY LINE
CAFM BUILDING NUMBER
CAFM BUILDING NUMBER (DEMO)
PROPOSED EXCAVATION AREA
AERIAL BASEMAP SOURCE: ESRI

NEW BUILDING/ STRUCTURE
FULL/ MAJOR MODERNIZATION
LIGHT MODERNIZATION
MINOR SCOPE
NEW TRACK & FIELD

DEMOLITION
BARRIER REMOVAL
As ARSENIC IN mg/kg
Pb LEAD IN mg/kg
mg/kg MILLIGRAM PER KILOGRAM
* ARSENIC ANALYZED BY EPA 6010B

SOIL SAMPLING LOCATION
STEP-OUT SAMPLING LOCATION
SOIL VAPOR SAMPLING LOCATION
36.2 CONCENTRATIONS HIGHLIGHTED IN YELLOW EXCEED SITE SPECIFIC ACTION LEVELS
3-STAGE CLARIFIER

SITE PLAN WITH ARSENIC, LEAD & DIELDRIN CONCENTRATIONS

5461 WINNETKA AVE.
WOODLAND HILLS, CA 91364

efi global

PN:9836003557
DT: 11/1/2019
DB:JE CB:DS

FIGURE 6

K:\AE 2018\Projects 2018\98360 Projects 2018\9836003557_045.00349_5461 Winnetka Ave Woodland Hills CA 91364\05 9836003557_Reports\2019-03 PEA-E Rpt\02 CAD\9836003557_Figures

TABLES

DRAFT

Table 1: Analytical Summary Table
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Investigative Area	Sampling Location Name	Sample ID	Soil Sample Depths (ft bgs)	Sample Date	Soil Sample Analysis (EPA Method)							
					TPH-cc (8015M)	VOCs (8260B)	OCPs (8081A)	Title 22 Metals (6010B / 7471A)	Arsenic (6020)	Lead		PCBs (8082)
										Total Lead (6010B)	Leachable Lead (DHS-WET / 6010B)	
Building 21 - Administrative Building	B1	B1-0.5	0.5	7/10/2018			X	X	X			
		B1-1.5	1.5	7/10/2018								
		B1-3	3	7/10/2018								
	B2	B2-0.5	0.5	7/10/2018			X	X	X		X	
		B2-1.5	1.5	7/10/2018				X	X			
		B2-3	3	7/10/2018								
	B2A*	B2A-0.5	0.5	8/9/2018			X	X	X			
		B2A-1.5	1.5	8/9/2018								
		B2A-3	3	8/9/2018								
	B2B*	B2B-0.5	0.5	8/9/2018			X	X	X			
		B2B-1.5	1.5	8/9/2018								
		B2B-3	3	8/9/2018								
	B2C*	B2C-0.5	0.5	8/9/2018			X	X	X			
		B2C-1.5	1.5	8/9/2018								
		B2C-3	3	8/9/2018								
	B3	B3-0.5	0.5	7/10/2018			X	X	X			
		B3-1.5	1.5	7/10/2018								
		B3-3	3	7/10/2018								
	B4	B4-0.5	0.5	7/10/2018			X	X	X		X	
		B4-1.5	1.5	7/10/2018								
		B4-3	3	7/10/2018								
	B5	B5-0.5	0.5	7/10/2018			X	X	X			X
		B5-0.5-DUP	0.5	7/10/2018			X	X	X			
		B5-1.5	1.5	7/10/2018			X					
		B5-3	3	7/10/2018			X					
	B5A*	B5A-0.5	0.5	8/9/2018			X	X	X			
		B5A-0.5DUP	0.5	8/9/2018			X	X	X			
		B5A-1.5	1.5	8/9/2018								
		B5A-1.5 DUP	1.5	8/9/2018								
		B5A-3	3	8/9/2018								
		B5A-3 DUP	3	8/9/2018								
	B5B*	B5B-0.5	0.5	8/9/2018			X	X	X			
		B5B-1.5	1.5	8/9/2018								
		B5B-3	3	8/9/2018								
	B5C*	B5C-0.5	0.5	8/9/2018			X	X	X			
		B5C-1.5	1.5	8/9/2018								
		B5C-3	3	8/9/2018								
	B6	B6-0.5	0.5	7/10/2018		X	X	X	X			
		B6-1.5	1.5	7/10/2018								
		B6-3	3	7/10/2018								
	B7	B7-0.5	0.5	7/10/2018			X	X	X			
		B7-1.5	1.5	7/10/2018								
		B7-3	3	7/10/2018								
	B8	B8-0.5	0.5	7/10/2018			X	X	X			
		B8-1.5	1.5	7/10/2018								
		B8-3	3	7/10/2018								
	B9	B9-0.5	0.5	7/10/2018			X	X	X			X
		B9-0.5 DUP	0.5	7/10/2018			X	X	X			
		B9-1.5	1.5	7/10/2018				X	X			
		B9-3	3	7/10/2018				X	X			
	B10	B10-0.5	0.5	7/10/2018			X	X	X			
		B10-0.5DUP	0.5	7/10/2018			X	X	X			
		B10-1.5	1.5	7/10/2018								
		B10-3	3	7/10/2018								
	B11	B11-0.5	0.5	7/10/2018			X	X	X			
		B11-1.5	1.5	7/10/2018				X	X			
		B11-3	3	7/10/2018				X	X			
	B11A*	B11A-0.5	0.5	8/9/2018			X	X	X			
		B11A-0.5DUP	0.5	8/9/2018			X	X	X			
		B11A-1.5	1.5	8/9/2018								
		B11A-3	3	8/9/2018								
	B11B*	B11B-0.5	0.5	8/9/2018			X	X	X			
		B11B-1.5	1.5	8/9/2018								
		B11B-3	3	8/9/2018								
	B11C*	B11C-0.5	0.5	8/9/2018			X	X	X			
	B11C*	B11C-1.5	1.5	8/9/2018								
		B11C-3	3	8/9/2018								
Buildings 9, 11, and 12 (Near existing clarifier)	B12	B12-0.5	1.5	7/10/2018			X	X	X			
		B12-1.5	3	7/10/2018								
		B12-3	3	7/10/2018								
	B13	B13-5	5	7/10/2018	X	X		X				

DRAFT

Table 1: Analytical Summary Table
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Investigative Area	Sampling Location Name	Sample ID	Soil Sample Depths (ft bgs)	Sample Date	Soil Sample Analysis (EPA Method)							
					TPH-cc (8015M)	VOCs (8260B)	OCPs (8081A)	Title 22 Metals (6010B / 7471A)	Arsenic (6020)	Lead		PCBs (8082)
										Total Lead (6010B)	Leachable Lead (DHS-WET / 6010B)	
Buildings 9, 11, and 12 (Near existing clarifier)	B13	B13-10	10	7/10/2018	X	X		X				
		B13-15	15	7/10/2018								
Buildings 1, 4, 5, 7, 10 - Campus Center	B14	B14-0.5	0.5	7/10/2018			X	X	X			
		B14-1.5	1.5	7/10/2018								
		B14-3	3	7/10/2018								
	B15	B15-0.5	0.5	7/10/2018			X	X	X			
		B15-1.5	1.5	7/10/2018								
		B15-3	3	7/10/2018								
	B16	B16-0.5	0.5	7/10/2018			X	X	X			
		B16-1.5	1.5	7/10/2018								
		B16-3	3	7/10/2018								
	B17	B17-0.5	0.5	7/10/2018			X	X	X			
		B17-1.5	1.5	7/10/2018								
		B17-3	3	7/10/2018								
	B18	B18-0.5	0.5	7/10/2018			X	X	X			
		B18-1.5	1.5	7/10/2018								
		B18-3	3	7/10/2018		X						
	B19	B19-0.5	0.5	7/10/2018			X	X	X			
		B19-1.5	1.5	7/10/2018								
		B19-3	3	7/10/2018								
	B20	B20-0.5	0.5	7/10/2018			X	X	X			
		B20-1.5	1.5	7/10/2018								
		B20-3	3	7/10/2018			X					
	B21	B21-0.5	0.5	7/11/2018			X	X	X			X
		B21-0.5 DUP	0.5	7/11/2018				X	X			
		B21-1.5	1.5	7/11/2018								
		B21-3	3	7/11/2018								
	B22	B22-0.5	0.5	7/11/2018			X	X	X			
		B22-0.5 DUP	0.5	7/11/2018			X	X	X			
		B22-1.5	1.5	7/11/2018								
		B22-3	3	7/11/2018								
South Football Bleachers & Buildings 8, 9, 10, 40, and 42	B23	B23-0.5	0.5	7/11/2018			X	X	X			
		B23-0.5 DUP	0.5	7/11/2018			X	X	X			
		B23-1.5	1.5	7/11/2018								
		B23-3	3	7/11/2018								
	B24	B24-0.5	0.5	7/11/2018			X	X	X			
		B24-0.5 DUP	0.5	7/11/2018			X	X	X			
		B24-1.5	1.5	7/11/2018				X	X			
		B24-3	3	7/11/2018								
	B25	B25-0.5	0.5	7/11/2018			X	X	X			
		B25-0.5 DUP	0.5	7/11/2018			X	X	X			
		B25-1.5	1.5	7/11/2018								
		B25-3	3	7/11/2018								
	B26	B26-0.5	0.5	7/11/2018			X	X	X			X
		B26-0.5 DUP	0.5	7/11/2018			X	X	X			
		B26-1.5	1.5	7/11/2018								
		B26-3	3	7/11/2018								
	B27	B27-0.5	0.5	7/11/2018			X	X	X			
		B27-1.5	1.5	7/11/2018								
		B27-3	3	7/11/2018								
	B28	B28-0.5	0.5	7/11/2018			X	X	X			
		B28-1.5	1.5	7/11/2018								
		B28-3	3	7/11/2018								
	B29	B29-0.5	0.5	7/11/2018			X	X	X			
		B29-1.5	1.5	7/11/2018								
		B29-3	3	7/11/2018								
	B30	B30-0.5	0.5	7/11/2018			X	X	X			
		B30-1.5	1.5	7/11/2018								
		B30-3	3	7/11/2018								
Buildings 1, 4, 5, 7, 10 - Campus Center	B31	B31-0.5	0.5	7/11/2018			X	X	X			
		B31-0.5 DUP	0.5	7/11/2018			X	X	X			
		B31-1.5	1.5	7/11/2018								
		B31-3	3	7/11/2018								
	B32	B32-0.5	0.5	7/11/2018			X	X	X			X
		B32-1.5	1.5	7/11/2018								
		B32-3	3	7/11/2018								
	B33	B33-0.5	0.5	7/11/2018			X	X	X			
		B33-1.5	1.5	7/11/2018								
		B33-3	3	7/11/2018								
	B34	B34-0.5	0.5	7/11/2018			X	X	X			
		B34-0.5 DUP	0.5	7/11/2018								
		B34-1.5	1.5	7/11/2018				X	X			
		B34-3	3	7/11/2018								
	B35	B35-0.5	0.5	7/11/2018			X	X	X			
		B35-0.5 DUP	0.5	7/11/2018			X	X	X			
		B35-1.5	1.5	7/11/2018								
		B35-3	3	7/11/2018								

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Table 1: Analytical Summary Table
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Investigative Area	Sampling Location Name	Sample ID	Soil Sample Depths (ft bgs)	Sample Date	Soil Sample Analysis (EPA Method)							
					TPH-cc (8015M)	VOCs (8260B)	OCPs (8081A)	Title 22 Metals (6010B / 7471A)	Arsenic (6020)	Lead		PCBs (8082)
										Total Lead (6010B)	Leachable Lead (DHS-WET / 6010B)	
Buildings 1, 4, 5, 7, 10 - Campus Center	B36	B36-0.5	0.5	7/11/2018			X	X	X			
		B36-1.5	1.5	7/11/2018								
		B36-3	3	7/11/2018								
	B37	B37-0.5	0.5	7/11/2018			X	X	X		X	
		B37-0.5 DUP	0.5	7/11/2018			X	X	X			
		B37-1.5	1.5	7/11/2018				X	X		X	
		B37-3	3	7/11/2018				X	X			
	B37A*	B37A-0.5	0.5	8/9/2018			X	X	X			
		B37A-1.5	1.5	8/9/2018								
		B37A-3	3	8/9/2018								
	B37B*	B37B-0.5	0.5	8/9/2018			X	X	X			
		B37B-1.5	1.5	8/9/2018								
		B37B-3	3	8/9/2018								
	B37C*	B37C-0.5	0.5	8/9/2018			X	X	X		X	
		B37C-1.5	1.5	8/9/2018						X		
		B37C-3	3	8/9/2018						X		
	B38	B38-0.5	0.5	7/11/2018			X	X	X			X
		B38-1.5	1.5	7/11/2018								
		B38-3	3	7/11/2018								
	B39	B39-0.5	0.5	7/11/2018			X	X	X			
		B39-0.5 DUP	0.5	7/11/2018			X	X	X			
		B39-1.5	1.5	7/11/2018								
		B39-3	3	7/11/2018								
	B40	B40-0.5	0.5	7/11/2018			X	X	X			
		B40-1.5	1.5	7/11/2018			X	X	X			
		B40-3	3	7/11/2018								
	B41	B41-0.5	0.5	7/11/2018			X	X	X			
		B41-1.5	1.5	7/11/2018			X	X	X			
		B41-3	3	7/11/2018								
	B41A*	B41A-0.5	0.5	8/13/2018			X	X	X			
		B41A-0.5 DUP	0.5	8/13/2018			X	X	X			
		B41A-1.5	1.5	8/13/2018								
		B41A-1.5 DUP	1.5	8/13/2018								
		B41A-3	3	8/13/2018								
		B41A-3 DUP	3	8/13/2018								
	B41B*	B41B-0.5	0.5	8/13/2018			X	X	X			
		B41B-1.5	1.5	8/13/2018								
		B41B-3	3	8/13/2018								
	B41C*	B41C-0.5	0.5	8/13/2018			X	X	X			
		B41C-1.5	1.5	8/13/2018								
		B41C-3	3	8/13/2018								
	B42	B42-0.5	0.5	7/11/2018			X	X	X			
		B42-1.5	1.5	7/11/2018								
		B42-3	3	7/11/2018								
	B43	B43-0.5	0.5	7/11/2018			X	X	X		X	
		B43-1.5	1.5	7/11/2018				X	X			
		B43-3	3	7/11/2018				X	X			
	B43A*	B43A-0.5	0.5	8/13/2018			X	X	X			
		B43A-1.5	1.5	8/13/2018								
		B43A-3	3	8/13/2018								
	B43B*	B43B-0.5	0.5	8/13/2018			X	X	X			
		B43B-1.5	1.5	8/13/2018								
		B43B-3	3	8/13/2018								
	B43C*	B43C-0.5	0.5	8/13/2018			X	X	X			
		B43C-1.5	1.5	8/13/2018								
		B43C-3	3	8/13/2018								
North Football Bleachers & Buildings 14 and 44	B44	B44-0.5	0.5	7/11/2018			X	X	X			
		B44-1.5	1.5	7/11/2018								
		B44-3	3	7/11/2018								
	B45	B45-0.5	0.5	7/11/2018			X	X	X			
		B45-0.5 DUP	0.5	7/11/2018			X	X	X			
		B45-1.5	1.5	7/11/2018								
		B45-3	3	7/11/2018								
	B46	B46-0.5	0.5	7/11/2018			X	X	X			
		B46-1.5	1.5	7/11/2018								
		B46-3	3	7/11/2018								
	B47	B47-0.5	0.5	7/11/2018			X	X	X			
		B47-0.5 DUP	0.5	7/11/2018			X	X	X			
		B47-1.5	1.5	7/11/2018								
		B47-3	3	7/11/2018								
	B48	B48-0.5	0.5	7/11/2018			X	X	X			
		B48-1.5	1.5	7/11/2018								
		B48-3	3	7/11/2018								
	B49	B49-0.5	0.5	7/11/2018			X	X	X			
		B49-1.5	1.5	7/11/2018				X	X			
		B49-3	3	7/11/2018								
	B49A*	B49A-0.5	0.5	8/9/2019			X	X	X			
		B49A-1.5	1.5	8/9/2019								
		B49A-3	3	8/9/2019								
	B49B*	B49B-0.5	0.5	8/9/2019			X	X	X			

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					TPH-cc (8015M)	VOCs (8260B)	OCPs (8081A)	Title 22 Metals (6010B / 7471A)	Arsenic (6020)	Lead		PCBs (8082)
										Total Lead (6010B)	Leachable Lead (DHS-WET / 6010B)	
North Football Bleachers & Buildings 14 and 44	B49B*	B49B-1.5	1.5	8/9/2019								
		B49B-3	3	8/9/2019								
	B49C*	B49C-0.5	0.5	8/9/2019			X	X	X			
		B49C-1.5	1.5	8/9/2019								
		B49C-3	3	8/9/2019								
Buildings 28 - 38	B50	B50-0.5	0.5	8/13/2018			X	X	X			X
		B50-1.5	1.5	8/13/2018								
		B50-3	3	8/13/2018								
	B51	B51-0.5	0.5	8/13/2018			X	X	X			X
		B51-0.5 DUP	0.5	8/13/2018			X	X	X			
		B51-1.5	1.5	8/13/2018								
		B51-1.5 DUP	1.5	8/13/2018								
		B51-3	3	8/13/2018								
		B51-3 DUP	3	8/13/2018								
	B52	B52-0.5	0.5	8/13/2018			X	X	X			
		B52-1.5	1.5	8/13/2018				X				
		B52-3	3	8/13/2018				X				
	B52A*	B52A-0.5	0.5	11/21/2018			X		X	X		
		B52A-1.5	1.5	11/21/2018								
		B52A-3	3	11/21/2018								
	B52B*	B52B-0.5	0.5	11/21/2018			X		X	X		
		B52B-1.5	1.5	11/21/2018								
		B52B-1.5 DUP	1.5	11/21/2018								
		B52B-3	3	11/21/2018								
	B52C*	B52C-0.5	0.5	11/21/2018			X		X	X		
		B52C-1.5	1.5	11/21/2018					X			
		B52C-3	3	11/21/2018					X			
	B53	B53-0.5	0.5	8/13/2018			X	X	X			
		B53-1.5	1.5	8/13/2018								
	B54	B54-0.5	0.5	8/13/2018			X	X	X			
		B54-1.5	1.5	8/13/2018								
		B54-3	3	8/13/2018								
	B55	B55-0.5	0.5	8/13/2018			X	X	X			X
		B55-1.5	1.5	8/13/2018								
		B55-3	3	8/13/2018								
	B56	B56-0.5	0.5	8/13/2018			X	X	X			
		B56-1.5	1.5	8/13/2018								
		B56-3	3	8/13/2018								
	B57	B57-0.5	0.5	8/13/2018			X	X	X			
		B57-1.5	1.5	8/13/2018								
		B57-3	3	8/13/2018								
	B58	B58-0.5	0.5	8/13/2018			X	X	X			
		B58-1.5	1.5	8/13/2018								
		B58-3	3	8/13/2018								
	B59	B59-0.5	0.5	8/13/2018			X	X	X			
		B59-1.5	1.5	8/13/2018								
		B59-3	3	8/13/2018								
	B60	B60-0.5	0.5	8/13/2018			X	X	X			
		B60-0.5 DUP	0.5	8/13/2018			X	X	X			
		B60-1.5	1.5	8/13/2018								
		B60-1.5 DUP	1.5	8/13/2018								
		B60-3	3	8/13/2018								
	B61	B61-0.5	0.5	8/13/2018			X	X	X		X	
		B61-1.5	1.5	8/13/2018				X	X			
		B61-3	3	8/13/2018				X				
	B61A	B61A-0.5	0.5	11/20/2018			X		X	X	X	
		B61A-1.5	1.5	11/20/2018								
		B61A-3	3	11/20/2018								
	B61B	B61B-0.5	0.5	11/20/2018			X		X	X	X	
		B61B-0.5 DUP	0.5	11/20/2018			X		X	X		
		B61B-1.5	1.5	11/20/2018								
		B61B-3	3	11/20/2018								
	B61C	B61C-0.5	0.5	11/20/2018			X		X	X	X	
		B61C-1.5	1.5	11/20/2018								
		B61C-3	3	11/20/2018								
	B62	B62-0.5	0.5	8/13/2018			X	X	X			
	B63	B63-0.5	0.5	8/13/2018			X	X	X			
		B63-1.5	1.5	8/13/2018								
	B64	B64-0.5	0.5	8/13/2018			X	X	X			
		B64-1.5	1.5	8/13/2018								
		B64-3	3	8/13/2018								
	B65	B65-0.5	0.5	8/13/2018			X	X	X		X	
		B65-1.5	1.5	8/13/2018								
		B65-3	3	8/13/2018								
	B66	B66-0.5	0.5	8/13/2018			X	X	X			
		B66-1.5	1.5	8/13/2018								
		B66-3	3	8/13/2018								
	B67	B67-0.5	0.5	8/13/2018			X	X	X			
		B67-1.5	1.5	8/13/2018								
		B67-3	3	8/13/2018								

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					TPH-cc (8015M)	VOCs (8260B)	OCPs (8081A)	Title 22 Metals (6010B / 7471A)	Arsenic (6020)	Lead		PCBs (8082)
										Total Lead (6010B)	Leachable Lead (DHS-WET / 6010B)	
Baseball / Softball Field	B68	B68-0.5	0.5	11/19/2018			X		X	X		
		B68-2	2	11/19/2018								
	B69	B69-0.5	0.5	11/19/2018			X		X	X		
		B69-2	2	11/19/2018								
	B70	B70-0.5	0.5	11/20/2018			X		X	X		
		B70-2	2	11/20/2018								
	B71	B71-0.5	0.5	11/20/2018			X		X	X		
		B71-2	2	11/20/2018								
	B72	B72-0.5	0.5	11/20/2018			X		X	X		
		B72-2	2	11/20/2018								
	B73	B73-0.5	0.5	11/19/2018			X		X	X		
		B73-0.5 DUP	0.5	11/19/2018			X		X	X		
		B73-2	2	11/19/2018								
	B74	B74-0.5	0.5	11/19/2018			X		X	X		
		B74-2	2	11/19/2018								
	B75	B75-0.5	0.5	11/19/2018			X		X	X		
		B75-2	2	11/19/2018								
	B76	B76-0.5	0.5	11/20/2018			X		X	X		
		B76-2	2	11/20/2018								
	B77	B77-0.5	0.5	11/20/2018			X		X	X		
		B77-2	2	11/20/2018								
		B77-2 DUP	2	11/20/2018								
	B78	B78-0.5	0.5	11/19/2018			X		X	X		
		B78-2	2	11/19/2018								
	B79	B79-0.5	0.5	11/19/2018			X		X	X		
		B79-2	2	11/19/2018								
	B80	B80-0.5	0.5	11/19/2018			X		X	X		
		B80-0.5 DUP	0.5	11/19/2018			X		X	X		
		B80-2	2	11/19/2018								
	B81	B81-0.5	0.5	11/20/2018			X		X	X		
		B81-2	2	11/20/2018								
	B82	B82-0.5	0.5	11/20/2018			X		X	X		
		B82-2	2	11/20/2018								
Football Field	B83	B83-0.5	0.5	11/19/2018			X		X	X		
		B83-1.5	1.5	11/19/2018								
		B83-1.5 DUP	1.5	11/19/2018								
		B83-3	3	11/19/2018								
	B84	B84-0.5	0.5	11/19/2018			X		X	X		
		B84-1.5	1.5	11/19/2018								
		B84-3	3	11/19/2018								
	B85	B85-0.5	0.5	11/19/2018			X		X	X		
		B85-1.5	1.5	11/19/2018								
		B85-3	3	11/19/2018								
	B86	B86-0.5	0.5	11/19/2018			X		X	X		
		B86-0.5 DUP	0.5	11/19/2018			X		X	X		
		B86-1.5	1.5	11/19/2018								
		B86-3	3	11/19/2018								
	B87	B87-0.5	0.5	11/19/2018			X		X	X		
		B87-1.5	1.5	11/19/2018								
		B87-3	3	11/19/2018								
	B88	B88-0.5	0.5	11/19/2018			X		X	X		
		B88-1.5	1.5	11/19/2018								
		B88-3	3	11/19/2018								
	B89	B89-0.5	0.5	11/19/2018			X		X	X		
		B89-1.5	1.5	11/19/2018								
		B89-3	3	11/19/2018								
	B90	B90-0.5	0.5	11/19/2018			X		X	X		
		B90-1.5	1.5	11/19/2018								
		B90-3	3	11/19/2018								
	B91	B91-0.5	0.5	11/19/2018			X		X	X		
		B91-1.5	1.5	11/19/2018								
		B91-3	3	11/19/2018								
	B92	B92-0.5	0.5	11/19/2018			X		X	X		
		B92-1.5	1.5	11/19/2018								
		B92-3	3	11/19/2018								
	B93	B93-0.5	0.5	11/19/2018			X		X	X		
		B93-1.5	1.5	11/19/2018								
		B93-3	3	11/19/2018								
	B94	B94-0.5	0.5	11/19/2018			X		X	X		
		B94-1.5	1.5	11/19/2018								
		B94-3	3	11/19/2018								

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5461 Winnetka Avenue, Woodland Hills, California 91364

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					TPH-cc (8015M)	VOCs (8260B)	OCPs (8081A)	Title 22 Metals (6010B / 7471A)	Arsenic (6020)	Lead		PCBs (8082)
										Total Lead (6010B)	Leachable Lead (DHS-WET / 6010B)	
Buildings 13 and 17	B95	B95-0.5	0.5	11/21/2018	X	X	X		X	X		
		B95-1.5	1.5	11/21/2018								
		B95-3	3	11/21/2018								
		B95-6	6	11/21/2018								
	B96	B96-0.5	0.5	11/21/2018	X	X	X		X	X		
		B96-1.5	1.5	11/21/2018								
		B96-3	3	11/21/2018								
		B96-6	6	11/21/2018								

Notes:
ft bgs = feet below ground surface
EPA = United States Environmental Protection Agency
TPHcc = Total Petroleum Hydrocarbons - carbon chain
VOCs = Volatile Organic Compounds
OCPs = Organochlorine Pesticides
DHS WET = California Department of Health Services Wet Extraction
PCBs = Polychlorinated Biphenyls
X = Sample Analyzed for indicated compound
DUP = Duplicate Sample
* = Step-out Sample

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Table 2: Organochlorine Pesticides in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Depth Interval (ft bgs)	Note	EPA Method 8081A (µg/kg)					
				Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	All Other 8081A OCP Analytes
SSALs[1]				1,700	1,900	2,000	1,900	34	Varies
B1-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B2-0.5	07/10/18	0-0.5	--	ND<49	ND<4.9	41	27	ND<4.9	ND
B2A-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	13	21	ND<5.0	ND
B2B-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B2C-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B3-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B4-0.5	07/10/18	0-0.5	--	160	ND<5.0	28	28	ND<5.0	ND
B5-0.5	07/10/18	0-0.5	--	76	ND<4.9	7.9	5.3	**74**	ND
B5-0.5 DUP	07/10/18	0-0.5	--	61	ND<5.0	7.5	8.1	**67**	ND
B5-1.5	07/10/18	1-1.5	H	ND<50	ND<5.0	ND<5.0	5.7	**59**	ND
B5-3	07/10/18	2.5-3	H	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B5A-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	5.8	ND<5.0	20	ND
B5A-0.5 DUP	08/09/18	0-0.5	--	ND<50	ND<5.0	4.9	ND<5.0	19	ND
B5B-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	9.8	ND<5.0	17	ND
B5C-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	13	ND
B6-0.5	07/10/18	0-0.5	--	65	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B7-0.5	07/10/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B8-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B9-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	9.0	10	ND<5.0	ND
B9-0.5 DUP	07/10/18	0-0.5	--	ND<50	ND<5.0	7.4	7.9	ND<5.0	ND
B10-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B10-0.5 DUP	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B11-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B11A-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B11A-0.5 DUP	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B11B-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	49	ND<5.0	ND<5.0	ND
B11C-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B12-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B14-0.5	07/10/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B15-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B16-0.5	07/10/18	0-0.5	--	74	ND<5.0	500	32	15	ND
B17-0.5	07/10/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B18-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B19-0.5	07/10/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B20-0.5	07/10/18	0-0.5	--	360	ND<4.9	7.8	12	ND<5.0	ND
B21-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B21-0.5 DUP	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B22-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B22-0.5 DUP	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B23-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B23-0.5 DUP	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B24-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B24-0.5 DUP	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B25-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B25-0.5 DUP	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B26-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B26-0.5 DUP	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B27-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B28-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B29-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	14	ND<4.9	ND<4.9	ND
B30-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B31-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B31-0.5 DUP	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B32-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B33-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B34-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B35-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B35-0.5 DUP	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND

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Table 2: Organochlorine Pesticides in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Depth Interval (ft bgs)	Note	EPA Method 8081A (µg/kg)					
				Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	All Other 8081A OCP Analytes
SSALs[1]				1,700	1,900	2,000	1,900	34	Varies
B36-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B37-0.5	07/11/18	0-0.5	--	61	ND<4.9	31	9.5	ND<4.9	ND
B37-0.5 DUP	07/11/18	0-0.5	--	51	ND<4.9	30	12	ND<5.0	ND
B37A-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B37B-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B37C-0.5	08/09/18	0-0.5	--	160	12	310	17	ND<5.0	ND
B38-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B39-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	14	ND<5.0	ND
B39-0.5 DUP	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B40-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B40-1.5	07/11/18	1-1.5	--	ND<50	12	12	18	ND<5.0	ND
B41-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	140	8.3	8.7	ND
B41-1.5	07/11/18	1-1.5	--	ND<50	ND<5.0	8.0	ND<5.0	ND<5.0	ND
B41A-0.5	08/13/18	0-0.5	--	ND<50	ND<5	ND<5	ND<5	ND<5	ND
B41A-0.5 DUP	08/13/18	0-0.5	--	ND<50	ND<5	ND<5	5.7	ND<5	ND
B41B-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B41C-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B42-0.5	07/11/18	0-0.5	--	81	14	14	26	ND<5.0	ND
B43-0.5	07/11/18	0-0.5	--	180	ND<5.0	16	8.6	ND<5.0	ND
B43A-0.5	08/13/18	0-0.5	--	110	ND<5	14	10	ND<5	ND
B43B-0.5	08/13/18	0-0.5	--	ND<50	ND<5	16	31	ND<5	ND
B43C-0.5	08/13/18	0-0.5	--	50	ND<4.9	11	14	12	ND
B44-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B45-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B45-0.5 DUP	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B46-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B47-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B47-0.5 DUP	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B48-0.5	07/11/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B49-0.5	07/11/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B49A-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B49B-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B49C-0.5	08/09/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B50-0.5	08/13/18	0-0.5	--	160	ND<5	19	13	ND<5	ND
B51-0.5	08/13/18	0-0.5	--	ND<50	ND<5	7.0	5.6	ND<5	ND
B51-0.5 DUP	08/13/18	0-0.5	--	ND<50	ND<5	11	6.9	ND<5	ND
B52-0.5	08/13/18	0-0.5	--	130	ND<5	33	ND<5	ND<5	ND
B52A-0.5	11/21/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B52B-0.5	11/21/18	0-0.5	--	75	ND<4.9	20	ND<4.9	ND<4.9	ND
B52C-0.5	11/21/18	0-0.5	--	64	ND<5	12	ND<5	ND<5	ND
B53-0.5	08/13/18	0-0.5	--	81	ND<5	ND<5	ND<5	ND<5	ND
B54-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	19	5.3	ND<4.9	ND
B55-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B56-0.5	08/13/18	0-0.5	--	ND<50	ND<5	8.1	ND<5	ND<5	ND
B57-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B58-0.5	08/13/18	0-0.5	--	240	ND<5	29	8.8	ND<5	ND
B59-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B60-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B60-0.5 DUP	08/13/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B61-0.5	08/13/18	0-0.5	--	710	ND<4.9	560	590	9.3	ND
B61A-0.5	11/20/18	0-0.5	--	390	ND<5.0	91	89	7.6	ND
B61B-0.5	11/20/18	0-0.5	--	ND<49	ND<4.9	12	10	ND<4.9	ND
B61B-0.5 DUP	11/20/18	0-0.5	--	65	ND<5.0	19	35	ND<5.0	ND
B61C-0.5	11/20/18	0-0.5	--	200	15	46	57	ND<5.0	ND
B62-0.5	08/13/18	0-0.5	--	ND<50	5.1	97	35	6.6	ND
B63-0.5	08/13/18	0-0.5	--	69	ND<5.0	460	410	ND<5.0	ND
B64-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B65-0.5	08/13/18	0-0.5	--	ND<49	12	79	14	ND<4.9	ND

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Table 2: Organochlorine Pesticides in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Depth Interval (ft bgs)	Note	EPA Method 8081A (µg/kg)					
				Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	All Other 8081A OCP Analytes
SSALs[1]				**1,700**	**1,900**	**2,000**	**1,900**	**34**	**Varies**
B66-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B67-0.5	08/13/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B68-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B69-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B70-0.5	11/20/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B71-0.5	11/20/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B72-0.5	11/20/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B73-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B73-0.5 DUP	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B74-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B75-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B76-0.5	11/20/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B77-0.5	11/20/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B78-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B79-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	7.0	ND<5.0	ND<5.0	ND
B80-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B80-0.5 DUP	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B81-0.5	11/20/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B82-0.5	11/20/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B83-0.5	11/19/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B84-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B85-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B86-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B86-0.5 DUP	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B87-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B88-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B89-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B90-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B91-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B92-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B93-0.5	11/19/18	0-0.5	--	ND<49	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND
B94-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND
B95-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	7.9	ND<5.0	ND<5.0	ND
B96-0.5	11/19/18	0-0.5	--	ND<50	ND<5.0	ND<5	ND<5.0	ND<5.0	ND
SSALs[1]				**1,700**	**1,900**	**2,000**	**1,900**	**34**	**Varies**

Notes:
ft bgs = feet below ground surface
EPA = United States Environmental Protection Agency
µg/kg = micrograms per kilgram
DDE = Dichlorodiphenyldichloroethylene
DDD = Dichlorodiphenyldichloroethane
DDT = Dichlorodiphenyltrichloroethane
OCP = Organchlorine Pesticides
SSALs = Site-Specific Action Levels
ND = Not Detected at or above the detection limit
-- = Not applicable
H = Sample extracted outside of laboratory hold time
DUP = Duplicate Sample

Concentrations that exceed SSALs show in **bold** and shaded in orange
[1] SSALs are based on the EPA's *Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2018.*

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Table 3: Polychlorinated Biphenyls in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Depth Interval (ft bgs)	PCBs by EPA Method 8082 (µg/kg)								
			Arochlor - 1016	Arochlor - 1221	Arochlor - 1232	Arochlor - 1242	Arochlor - 1248	Arochlor - 1254	Arochlor - 1260	Arochlor - 1262	Arochlor - 1268
B5-0.5	07/10/18	0-0.5	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50
B9-0.5	07/10/18	0-0.5	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50
B21-0.5	07/11/18	0-0.5	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50
B26-0.5	07/11/18	0-0.5	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49
B32-0.5	07/11/18	0-0.5	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50
B38-0.5	07/11/18	0-0.5	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49
B50-0.5	08/13/18	0-0.5	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50
B51-0.5	08/13/18	0-0.5	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50
B55-0.5	08/13/18	0-0.5	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49	ND < 49

Notes:
EPA = United States Environmental Protection Agency
µg/kg = micrograms per kilogram
ft bgs = feet below ground surface
PCB = Polychlorinated biphenyls
ND = Not Detected at or above the detection limit

DRAFT

Table 4: Title 22 Metals in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Interval (ft bgs)	Title 22 Metals																	
			Antimony	Arsenic		Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead		Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
EPA Method			6010B	6010B	6020A	6010B	6010B	6010B	6010B	6010B	6010B	6010B	DHS-WET / 6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	7471A
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B1-0.5	07/10/18	0-0.5	ND	--	8.19	129	0.503	1.23	20.9	8.53	30.2	13.5	--	2.05	30.0	ND	ND	ND	31.9	68.4	ND
B2-0.5	07/10/18	0-0.5	ND	--	16.5	137	0.335	ND	15.2	10.8	33.7	58.2	2.82	1.31	14.0	ND	ND	ND	35.0	79.4	0.0826
B2-1.5	07/10/18	0-0.5	ND	--	9.99	113	0.416	0.995	27.1	6.69	46.1	4.71	--	8.71	19.4	2.76	ND	ND	26.1	78.8	0.0975
B2A-0.5	08/09/18	0-0.5	ND	--	14.9	177	0.767	1.72	32.0	8.81	52.0	21.8	--	5.71	41.0	3.75	ND	1.96	38.9	104	ND
B2B-0.5	08/09/18	0-0.5	ND	--	8.22	133	0.712	1.52	25.5	8.02	24.8	9.00	--	2.74	29.5	0.892	ND	1.94	42.0	68.0	ND
B2C-0.5	08/09/18	0-0.5	ND	--	9.28	138	0.627	1.21	29.3	7.71	38.7	10.4	--	5.52	31.5	1.92	ND	2.07	38.7	82.7	ND
B3-0.5	07/10/18	0-0.5	ND	--	7.88	92.3	0.440	0.567	27.8	6.28	38.0	3.71	--	14.7	18.4	4.43	ND	ND	31.4	75.4	ND
B4-0.5	07/10/18	0-0.5	ND	--	8.62	143	0.454	1.47	24.9	6.89	32.3	54.4	1.67	2.84	22.0	0.840	ND	ND	32.7	147	ND
B5-0.5	07/10/18	0-0.5	ND	--	9.96	141	0.440	1.33	24.2	12.4	38.9	22.5	--	5.81	29.5	1.41	ND	ND	32.0	145	0.166
B5-0.5-DUP	07/10/18	0-0.5	ND	--	9.35	161	0.384	1.17	23.3	7.54	40.1	25.2	--	6.83	26.3	2.43	ND	ND	31.1	146	ND
B5A-0.5	08/09/18	0-0.5	ND	--	14.1	174	0.707	1.14	33.4	7.89	43.2	27.1	--	8.94	30.0	2.48	ND	1.92	42.1	183	ND
B5A-0.5DUP	08/09/18	0-0.5	ND	--	10.9	181	0.706	1.18	34.5	8.83	45.1	34.0	--	7.07	30.7	2.95	ND	1.48	40.9	190	ND
B5B-0.5	08/09/18	0-0.5	ND	--	8.98	220	0.672	1.12	33.9	8.27	46.9	37.3	--	5.70	28.7	2.53	ND	1.78	38.5	121	0.0813
B5C-0.5	08/09/18	0-0.5	ND	--	12.7	172	0.631	0.920	33.5	7.65	48.5	25.3	--	7.10	31.3	3.22	ND	1.69	36.4	111	ND
B6-0.5	07/10/18	0-0.5	ND	--	9.34	152	0.598	1.23	20.0	7.53	22.9	16.5	--	2.21	25.8	2.44	ND	ND	34.7	65.9	ND
B7-0.5	07/10/18	0-0.5	ND	--	8.89	212	0.483	1.40	26.4	8.40	42.2	7.58	--	4.27	36.4	2.22	ND	ND	31.8	89.6	ND
B8-0.5	07/10/18	0-0.5	ND	--	11.5	145	0.523	1.17	18.9	6.99	28.7	13.1	--	2.11	23.2	ND	ND	ND	34.2	64.2	ND
B9-0.5	07/10/18	0-0.5	ND	--	23.9	163	0.426	1.24	20.5	7.67	30.5	13.5	--	2.74	27.5	0.874	ND	ND	32.1	106	0.187
B9-0.5DUP	07/10/18	0-0.5	ND	--	**28.4**	139	0.387	1.09	19.1	5.88	31.2	12.0	--	4.39	24.7	2.24	ND	ND	30.8	115	ND
B9-1.5	07/10/18	1-1.5	ND	--	**25.5**	136	0.471	1.36	26.1	7.75	43.8	27.4	--	3.22	29.5	4.35	ND	ND	29.9	162	ND
B9-3	07/10/18	2.5-3	ND		6.35	173	0.606	1.13	14.3	5.35	18.6	2.50	--	1.91	26.2	0.784	ND	1.66	31.1	40.7	ND
B10-0.5	07/10/18	0-0.5	ND	--	10.3	85.6	0.345	0.946	14.5	4.36	22.3	24.9	--	1.28	16.7	ND	ND	ND	22.6	58.1	ND
B10-0.5DUP	07/10/18	0-0.5	ND	--	11.1	97.4	0.352	0.973	13.9	5.22	21.2	17.7	--	1.63	18.7	ND	ND	ND	25.3	51.7	ND
B11-0.5	07/10/18	0-0.5	ND	--	21.1	129	0.389	0.817	28.8	6.76	48.2	9.05	--	5.45	22.6	2.52	ND	ND	30.4	90.3	ND
B11-1.5	07/10/18	1-1.5	ND	--	15.2	138	0.511	1.39	29.9	7.54	30.9	29.3	--	1.96	20.2	ND	0.375	ND	35.9	130	0.0896
B11-3	07/10/18	2.5-3	ND	--	9.62	148	0.710	1.31	27.2	8.22	39.3	4.61	--	8.06	35.5	1.54	ND	1.61	39.5	83.0	ND
B11A-0.5	08/09/18	0-0.5	ND	--	**36.2**	149	0.798	1.56	37.0	9.68	54.0	10.0	--	9.90	53.7	2.81	ND	1.77	41.5	138	ND
B11A-0.5DUP	08/09/18	0-0.5	ND	--	16.2	129	1.08	6.47	38.8	**30.8**	50.7	9.05	--	21.9	225	2.69	ND	ND	41.6	159	ND
B11B-0.5	08/09/18	0-0.5	ND	--	20.0	136	0.697	1.17	30.7	9.91	27.1	25.8	--	0.885	18.1	ND	ND	2.29	42.1	109	ND
B11C-0.5	08/09/18	0-0.5	ND	--	4.92	130	0.646	1.70	22.6	8.23	27.5	4.07	--	5.06	43.9	3.34	ND	1.64	31.7	75.5	ND
B12-0.5	07/10/18	0-0.5	ND	--	5.84	153	0.402	1.17	29.4	11.0	34.7	5.44	--	5.71	29.9	1.28	ND	ND	34.1	71.8	ND
B13-5	07/10/18	4.5-5	ND	5.44	--	93.0	0.380	0.984	22.4	4.94	32.7	3.83	--	7.99	30.2	3.23	ND	ND	24.5	69.2	ND
B13-10	07/10/18	9.5-10	ND	4.08	--	244	0.543	0.816	18.5	7.28	27.6	4.20	--	1.96	24.3	0.977	ND	ND	39.3	38.1	ND
B14-0.5	07/10/18	0-0.5	ND	--	1.49	165	0.275	0.575	24.3	4.14	50.2	8.41	--	2.85	13.7	1.31	0.246	ND	22.4	56.1	ND
B15-0.5	07/10/18	0-0.5	ND	--	10.1	58.4	0.321	0.513	31.3	7.29	40.8	2.38	--	13.1	16.1	1.51	ND	ND	32.3	86.1	ND
B16-0.5	07/10/18	0-0.5	ND	--	5.05	98.0	ND	ND	10.4	5.97	12.6	20.6	--	0.472	10.5	ND	ND	ND	23.5	40.6	0.115
B17-0.5	07/10/18	0-0.5	ND	--	10.1	98.0	ND	ND	10.4	5.97	12.6	20.6	--	0.472	10.5	ND	ND	ND	23.5	40.6	ND
B18-0.5	07/10/18	0-0.5	ND	--	6.32	137	0.335	ND	15.2	10.8	17.8	8.81	--	1.31	14.0	ND	ND	ND	35.0	61.4	ND
B19-0.5	07/10/18	0-0.5	0.758	--	10.1	92.0	ND	ND	6.31	5.44	10.7	23.2	--	0.895	9.61	ND	ND	ND	23.7	46.0	ND
B20-0.5	07/10/18	0-0.5	1.15	--	7.24	130	0.348	0.914	20.3	8.39	25.9	25.6	--	2.24	16.5	ND	ND	ND	31.9	111	0.164
B21-0.5	07/11/18	0-0.5	ND	--	3.88	157	0.493	1.06	20.5	8.00	17.7	3.44	--	2.89	22.6	1.89	ND	ND	33.7	52.5	ND
B21-0.5 DUP	07/11/18	0-0.5	ND	--	4.08	187	0.520	1.05	24.8	5.56	21.0	3.92	--	2.31	23.7	ND	ND	ND	38.1	50.2	ND
B22-0.5	07/11/18	0-0.5	ND	--	6.04	143	0.786	1.88	28.5	11.5	28.2	4.21	--	5.24	55.8	4.47	ND	ND	36.5	102	ND
B22-0.5 DUP	07/11/18	0-0.5	ND	--	4.41	177	0.492	1.91	20.5	7.10	18.6	3.74	--	2.95	36.3	ND	ND	ND	33.4	62.1	ND
B23-0.5	07/11/18	0-0.5	ND	--	4.43	155	0.442	1.11	24.1	7.58	24.1	6.29	--	3.45	25.4	2.43	ND	ND	33.4	62.1	ND
B23-0.5 DUP	07/11/18	0-0.5	ND	--	4.14	139	0.420	0.897	24.6	7.17	26.2	38.7	--	4.81	26.1	2.40	ND	ND	29.9	62.6	ND
B24-0.5	07/11/18	0-0.5	ND	--	7.13	158	0.462	1.32	30.4	7.91	43.2	4.20	--	7.91	30.4	3.09	ND	0.790	35.0	81.7	ND
B24-0.5 DUP	07/11/18	0-0.5	ND	--	6.98	139	0.489	ND	27.3	5.52	23.6	4.57	--	5.85	17.8	4.96	ND	ND	36.4	64.0	ND
B24-1.5	07/11/18	1-1.5	ND		5.89	157	0.467	1.87	17.0	7.21	24.2	5.19	--	5.05	26.4	2.04	ND	ND	32.0	58.2	ND
B25-0.5	07/11/18	0-0.5	ND	--	4.93	156	0.507	1.62	27.9	9.63	30.0	7.06	--	6.4	40.0	3.23	ND	ND	32.6	73.5	ND
B25-0.5 DUP	07/11/18	0-0.5	ND	--	5.02	132	0.526	1.39	27.0	15.0	31.4	4.66	--	6.64	33.8	4.60	ND	ND	33.1	70.0	ND
B26-0.5	07/11/18	0-0.5	ND	--	4.98	153	0.506	1.30	20.7	7.20	17.7	4.97	--	2.92	22.3	ND	ND	ND	39.1	50.0	ND
B26-0.5 DUP	07/11/18	0-0.5	ND	--	4.92	159	0.476	1.29	20.0	6.74	16.6	4.48	--	2.53	21.4	ND	ND	ND	36.3	46.6	ND
B27-0.5	07/11/18	0-0.5	ND	--	4.19	142	0.491	1.26	19.7	7.18	17.1	4.23	--	1.84	20.5	ND	ND	ND	35.2	55.7	ND
B28-0.5	07/11/18	0-0.5	ND	--	5.78	161	0.496	1.46	25.0	11.3	24.6	7.11	--	3.22	26.8	1.32	ND	ND	37.3	67.8	ND
B29-0.5	07/11/18	0-0.5	ND	--	8.34	187	0.489	1.32	32.6	8.68	50.3	15.6	--	7.18	31.3	2.50	ND	ND	35.4	111	ND
B30-0.5	07/11/18	0-0.5	ND	--	5.30	143	0.421	0.699	33.5	8.77	44.5	4.84	--	6.54	25.0	2.31	ND	ND	33.3	82.4	ND
B31-0.5	07/11/18	0-0.5	ND	--	8.53	101	0.269	0.564	11.5	6.42	12.1	13.9	--	0.980	14.6	0.807	ND	ND	31.4	48.9	ND
B31-0.5 DUP	07/11/18	0-0.5	ND	--	3.91	139	0.487	1.57	20.2	7.43	18.1	4.52	--	2.96	23.2	1.72	ND	ND	44.3	49.8	ND

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Table 4: Title 22 Metals in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Interval (ft bgs)	Title 22 Metals																	
			Antimony	Arsenic		Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead		Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
EPA Method			6010B	6010B	6020A	6010B	6010B	6010B	6010B	6010B	6010B	6010B	DHS-WET / 6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	7471A
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B32-0.5	07/11/18	0-0.5	ND	--	5.64	129	0.551	1.38	21.5	7.32	17.9	3.66	--	3.21	21.8	1.47	ND	ND	45.4	49.0	ND
B33-0.5	07/11/18	0-0.5	ND	--	8.73	140	0.544	0.958	19.3	7.00	23.0	8.72	--	2.56	20.7	1.14	ND	ND	35.5	53.1	ND
B34-0.5	07/11/18	0-0.5	ND	--	6.08	69.8	0.373	0.972	38.8	7.89	40.6	4.71	--	11.3	41.1	5.07	0.273	1.02	31.0	91.9	0.0827
B34-1.5	07/11/18	1-1.5	ND	--	10.7	63.2	0.436	1.62	30.2	8.09	29.2	3.29	--	5.37	27.1	5.12	ND	ND	34.4	87.9	ND
B35-0.5	07/11/18	0-0.5	ND	--	3.95	134	0.350	0.802	14.2	8.06	16.3	4.51	--	0.256	22.1	0.867	ND	ND	29.4	51.5	ND
B35-0.5 DUP	07/11/18	0-0.5	ND	--	3.27	196	0.467	1.08	17.4	7.57	16.8	4.12	--	0.357	30.8	ND	ND	ND	31.6	60.2	ND
B36-0.5	07/11/18	0-0.5	ND	--	4.97	142	0.363	0.610	33.7	7.93	52.4	7.00	--	3.06	20.1	11.1	ND	ND	31.9	85.5	ND
B37-0.5	07/11/18	0-0.5	ND	--	**24.2**	189	0.616	2.09	34.9	12.3	51.9	60.1	0.905	5.50	62.3	2.09	ND	ND	38.7	389	0.0886
B37-0.5 DUP	07/11/18	0-0.5	ND	--	20.2	161	0.556	1.94	31.7	10.5	49.5	56.8	--	5.18	59.5	2.17	ND	ND	35.3	374	0.0836
B37-1.5	07/11/18	1-1.5	ND	--	17.0	149	0.953	3.23	33.3	18.2	48.5	**156**	4.74	3.51	87.1	2.21	ND	ND	33.1	802	0.296
B37-3	07/11/18	2.5-3	ND	--	13.5	80.0	0.426	ND	27.1	5.38	36.2	11.1	--	16.2	16.1	4.99	ND	1.21	41.1	111	ND
B37A-0.5	08/09/18	0-0.5	ND	--	7.49	176	0.811	2.27	25.8	10.9	26.8	4.84	--	4.59	60.3	0.879	ND	1.98	40.5	97.1	ND
B37B-0.5	08/09/18	0-0.5	ND	--	12.6	223	0.855	1.03	37.4	9.97	42.7	5.19	--	12.4	45.8	4.86	ND	2.19	50.9	95.2	0.0948
B37C-0.5	08/09/18	0-0.5	ND	--	**30.1**	193	0.917	1.69	39.2	13.4	47.4	**228**	4.38	5.79	56.8	2.39	ND	1.70	45.8	315	0.220
B37C-1.5	08/09/18	1-1.5		--	--	--	--	--	--	--	--	12.1	--	--	--	--	--	--	--	--	--
B37C-3	08/09/18	2.5-3		--	--	--	--	--	--	--	--	13.1	--	--	--	--	--	--	--	--	--
B38-0.5	07/11/18	0-0.5	ND	--	7.63	74.8	0.319	0.606	39.5	8.10	51.3	4.86	--	10.9	20.3	5.50	ND	ND	36.9	92.3	ND
B39-0.5	07/11/18	0-0.5	ND	--	5.05	287	0.431	0.625	25.4	5.90	22.6	8.29	--	4.23	21.6	2.94	ND	ND	33.0	64.1	ND
B39-0.5 DUP	07/11/18	0-0.5	ND	--	8.99	73.0	0.439	0.860	44.8	8.33	50.9	3.86	--	11.3	35.1	6.48	ND	ND	41.9	81.9	ND
B40-0.5	07/11/18	0-0.5	ND	--	3.00	222	0.414	0.828	22.8	16.3	24.8	15.0	--	0.583	23.8	3.18	ND	ND	36.4	79.1	ND
B40-1.5	07/11/18	1-1.5	ND	--	5.79	229	0.469	0.780	18.9	13.5	26.1	29.0	--	ND	19.4	1.10	ND	ND	35.7	71.1	ND
B41-0.5	07/11/18	0-0.5	ND	--	12.6	178	0.445	1.21	33.4	9.76	39.0	14.9	--	6.83	32.4	4.51	ND	ND	35.7	121	ND
B41-1.5	07/11/18	1-1.5	ND	--	11.3	500	0.529	0.842	38.7	9.58	41.1	6.88	--	9.79	31.1	6.44	ND	ND	46.3	126	0.0838
B41A-0.5	08/13/18	0-0.5	ND	--	7.92	126	0.631	1.37	30.4	12.7	40.3	10.9	--	11.3	34.5	8.35	ND	2.10	41.0	96.9	ND
B41A-0.5 DUP	08/13/18	0-0.5	ND	--	6.24	132	0.643	1.42	30.9	11.8	43.5	11.0	--	12.1	37.6	6.33	ND	1.93	40.0	99.6	ND
B41B-0.5	08/13/18	0-0.5	ND	--	6.89	147	0.590	1.29	32.2	10.2	39.2	14.1	--	5.56	31.7	3.89	ND	2.23	42.2	116	ND
B41C-0.5	08/13/18	0-0.5	ND	--	4.46	108	0.479	1.12	18.5	9.08	24.4	6.29	--	5.30	32.7	3.87	ND	1.58	32.0	73.0	ND
B42-0.5	07/11/18	0-0.5	ND	--	7.98	104	0.398	1.33	28.3	8.28	32.8	24.4	--	3.79	26.2	0.833	ND	ND	40.4	161	ND
B43-0.5	07/11/18	0-0.5	ND	--	17.4	184	0.483	1.81	32.0	9.2	41.9	57.2	2.40	3.20	29.5	1.66	ND	ND	39.8	197	ND
B43-1.5	07/28/18	1-1.5	ND	--	12.2	137	0.426	1.56	17.9	7.1	28.9	34.7	--	4.64	22.2	ND	ND	0.787	28.4	127	ND
B43-3	07/11/18	2.5-3	ND	--	4.33	75.2	0.365	1.21	9.7	4.3	24.5	9.02	--	5.03	21.1	ND	ND	ND	15.9	51.8	ND
B43A-0.5	08/13/18	0-0.5	ND	--	21.4	168	0.618	1.53	28.1	7.69	37.4	40.0	--	4.46	29.7	1.25	ND	1.32	40.0	133	0.168
B43B-0.5	08/13/18	0-0.5	ND	--	11.3	169	0.618	1.52	28.2	7.71	37.3	40.3	--	4.51	29.9	1.40	ND	1.37	40.1	134	0.0821
B43C-0.5	08/13/18	0-0.5	ND	--	9.20	154	0.605	1.10	45.7	7.07	23.3	36.5	--	2.23	22.6	ND	ND	1.37	38.2	114	ND
B44-0.5	07/11/18	0-0.5	ND	--	6.19	158	0.464	1.73	34.8	7.38	36.4	5.26	--	6.55	39.8	1.31	ND	ND	37.4	75.6	ND
B45-0.5	07/11/18	0-0.5	ND	--	6.08	220	0.476	1.54	33.2	8.38	31.3	13.3	--	4.30	34.4	2.85	ND	ND	39.5	77.1	ND
B45-0.5 DUP	07/11/18	0-0.5	ND	--	7.34	213	0.501	1.56	35.5	8.53	34.7	8.06	--	4.97	37.6	2.88	ND	ND	39.9	81.3	ND
B46-0.5	07/11/18	0-0.5	ND	--	6.98	191	0.457	2.15	33.4	9.30	37.3	12.7	--	5.77	41.0	2.71	ND	ND	35.6	84.1	ND
B47-0.5	07/11/18	0-0.5	ND	--	9.12	202	0.506	1.89	36.2	7.71	34.8	4.43	--	5.40	35.5	0.812	ND	ND	41.0	78.2	ND
B47-0.5 DUP	07/11/18	0-0.5	ND	--	9.34	183	0.489	2.12	38.3	7.49	34.3	4.09	--	5.87	34.8	1.97	ND	ND	45.1	78.4	ND
B48-0.5	07/11/18	0-0.5	ND	--	8.98	159	0.373	0.980	33.6	6.20	31.2	7.15	--	7.56	28.9	4.13	ND	ND	34.0	69.7	ND
B49-0.5	07/11/18	0-0.5	ND	--	14.1	182	0.382	0.732	34.7	8.01	40.2	6.35	--	10.2	26.1	4.36	ND	ND	36.6	89.6	ND
B49-1.5	07/11/18	1-1.5	ND	--	6.75	84.9	ND	0.776	19.8	5.39	30.6	2.60	--	12	11.9	12.90	ND	ND	23.6	62.7	ND
B49A-0.5	08/09/18	0-0.5	ND	--	11.8	174	0.625	0.816	32.3	7.77	41.2	14.5	--	9.83	29.1	8.86	ND	1.99	40.5	93.5	ND
B49B-0.5	08/09/18	0-0.5	ND	--	11.9	147	0.542	0.770	36.1	7.16	40.0	5.72	--	12.8	30.4	6.17	ND	2.13	37.7	90.0	ND
B49C-0.5	08/09/18	0-0.5	ND	--	12.1	176	0.540	ND	34.6	7.69	38.8	4.83	--	12.8	24.6	7.57	ND	1.46	39.9	88.4	ND
B50-0.5	08/13/18	0-0.5	ND	--	9.06	171	0.721	1.82	30.6	9.24	30.5	12.9	--	3.78	33.0	ND	ND	1.49	45.4	87.0	0.0961
B51-0.5	08/13/18	0-0.5	ND	--	6.30	162	0.661	1.48	27.7	8.70	25.1	7.76	--	3.22	30.3	ND	ND	1.21	40.2	64.3	ND
B51-0.5 DUP	08/13/18	0-0.5	ND	--	8.34	163	0.718	1.52	31.3	7.58	27.8	6.82	--	3.90	31.4	ND	ND	1.52	44.7	68.6	ND
B52-0.5	08/13/18	0-0.5	ND	--	17.0	173	0.627	1.81	28.1	9.11	30.9	18.4	--	1.59	29.3	ND	ND	1.36	40.3	93.3	ND
B52-1.5	08/13/18	1-1.5	ND	10.9	--	212	0.684	3.20	22.4	8.77	29.8	1.80	--	1.48	35.7	ND	ND	ND	31.1	55.2	ND
B52-3	08/13/18	2.5-3	ND	7.74	--	172	0.514	2.58	18.3	5.64	23.7	1.67		1.25	31.2	ND	ND	ND	24.6	44.7	ND
B52A-0.5	11/21/18	0-0.5		--	8.49	--	--	--	--	--	--	2.25	--	--	--	--	--	--	--	--	--
B52B-0.5	11/21/18	0-0.5		--	7.78	--	--	--	--	--	--	13.6	--	--	--	--	--	--	--	--	--
B52C-0.5	11/21/18	0-0.5		--	12.40	--	--	--	--	--	--	7.56	--	--	--	--	--	--	--	--	--
B53-0.5	08/13/18	0-0.5	ND	--	7.64	187	0.739	1.78	30.9	8.56	42.5	11.9	--	4.15	35.2	1.14	ND	1.37	45.6	125	ND
B54-0.5	08/13/18	0-0.5	ND	--	8.23	178	0.738	2.02	34.7	8.52	38.5	10.5	--	6.05	40.7	1.38	ND	1.65	43.7	153	ND

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Table 4: Title 22 Metals in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Interval (ft bgs)	Title 22 Metals																	
			Antimony	Arsenic		Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead		Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
EPA Method			6010B	6010B	6020A	6010B	6010B	6010B	6010B	6010B	6010B	6010B	DHS-WET / 6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	7471A
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B55-0.5	08/13/18	0-0.5	ND	--	1.64	52.1	ND	0.583	10.9	2.02	8.35	2.06	--	1.29	10.4	ND	ND	ND	13.2	29.5	ND
B56-0.5	08/13/18	0-0.5	ND	--	5.42	174	0.664	1.60	25.9	6.67	27.6	16.5	--	2.59	27.8	1.33	ND	1.42	37.3	114	ND
B57-0.5	08/13/18	0-0.5	ND	--	5.43	159	0.605	1.22	28.3	7.72	32.3	5.48	--	7.97	31.9	1.93	ND	1.26	38.8	69.0	ND
B58-0.5	08/13/18	0-0.5	ND	--	7.61	153	0.598	1.21	24.9	8.71	27.6	28.2	--	1.54	23.3	ND	ND	2.31	40.2	74.4	ND
B59-0.5	08/13/18	0-0.5	ND	--	5.79	164	0.716	1.60	34.3	7.67	32.8	4.61	--	6.11	36.5	1.76	ND	1.36	42.8	75.8	ND
B60-0.5	08/13/18	0-0.5	ND	--	7.80	149	0.662	1.71	34.0	8.35	32.9	6.42	--	6.29	39.0	2.39	ND	1.33	39.8	76.1	ND
B60-0.5 DUP	08/13/18	0-0.5	ND	--	10.7	176	0.755	2.22	37.2	9.79	39.2	7.85	--	7.33	53.8	2.65	ND	1.38	46.0	90.3	ND
B61-0.5	08/13/18	0-0.5	ND	--	9.24	190	0.824	2.07	35.5	8.83	38.2	**87.6**	2.19	7.87	35.1	1.08	ND	1.50	50.5	151	ND
B61-1.5	08/13/18	1-1.5	ND	8.01	6.32	143	0.567	1.72	16.5	7.01	24.6	5.77	--	2.44	30.4	ND	ND	ND	25.3	59.2	ND
B61-3	08/13/18	2.5-3	ND	6.59	--	176	0.560	1.37	14.7	7.14	23.5	3.07	--	1.81	23.5	ND	ND	ND	22.9	41.6	ND
B61A-0.5	11/20/18	0-0.5		--	8.64	--	--	--	--	--	--	46.7	1.55	--	--	--	--	--	--	--	--
B61B-0.5	11/20/18	0-0.5		--	7.03	--	--	--	--	--	--	13.5	0.508	--	--	--	--	--	--	--	--
B61B-0.5 DUP	11/20/18	0-0.5		--	6.46	--	--	--	--	--	--	24.4	--	--	--	--	--	--	--	--	--
B61C-0.5	11/20/18	0-0.5		--	6.86	--	--	--	--	--	--	45.4	1.38	--	--	--	--	--	--	--	--
B62-0.5	08/13/18	0-0.5	ND	--	6.32	147	0.607	1.28	24.8	7.41	28.4	46.0	--	3.16	27.6	1.72	ND	1.49	39.0	201	ND
B63-0.5	08/13/18	0-0.5	ND	--	9.91	201	0.754	1.67	33.2	8.90	35.4	57.4	--	3.01	35.3	0.826	ND	1.57	46.2	172	ND
B64-0.5	08/13/18	0-0.5	ND	--	5.42	179	0.745	1.64	25.8	7.56	22.4	5.54	--	3.55	28.5	0.885	ND	1.87	46.1	58.8	ND
B65-0.5	08/13/18	0-0.5	ND	--	8.34	195	0.739	1.88	28.9	8.37	34.4	20.7	0.492	2.84	30.8	1.54	ND	1.40	46.6	95.6	ND
B66-0.5	08/13/18	0-0.5	ND	--	6.83	185	0.701	1.45	28.0	6.95	32.2	6.96	--	2.37	29.5	ND	ND	1.39	35.9	61.4	ND
B67-0.5	08/13/18	0-0.5	ND	--	8.95	190	0.747	1.61	30.1	8.36	28.2	7.35	--	3.32	34.4	ND	ND	1.49	44.0	67.6	ND
B68-0.5	11/19/18	0-0.5		--	8.22	--	--	--	--	--	--	30.5	--	--	--	--	--	--	--	--	--
B69-0.5	11/19/18	0-0.5		--	9.17	--	--	--	--	--	--	21.5	--	--	--	--	--	--	--	--	--
B70-0.5	11/20/18	0-0.5		--	6.62	--	--	--	--	--	--	21.8	--	--	--	--	--	--	--	--	--
B71-0.5	11/20/18	0-0.5		--	7.92	--	--	--	--	--	--	4.92	--	--	--	--	--	--	--	--	--
B72-0.5	11/20/18	0-0.5		--	10.4	--	--	--	--	--	--	10.9	--	--	--	--	--	--	--	--	--
B73-0.5	11/19/18	0-0.5		--	5.15	--	--	--	--	--	--	6.28	--	--	--	--	--	--	--	--	--
B73-0.5 DUP	11/19/18	0-0.5		--	5.53	--	--	--	--	--	--	5.56	--	--	--	--	--	--	--	--	--
B74-0.5	11/19/18	0-0.5		--	4.54	--	--	--	--	--	--	7.71	--	--	--	--	--	--	--	--	--
B75-0.5	11/19/18	0-0.5		--	4.23	--	--	--	--	--	--	16.2	--	--	--	--	--	--	--	--	--
B76-0.5	11/20/18	0-0.5		--	3.17	--	--	--	--	--	--	6.63	--	--	--	--	--	--	--	--	--
B77-0.5	11/20/18	0-0.5		--	3.27	--	--	--	--	--	--	16.9	--	--	--	--	--	--	--	--	--
B78-0.5	11/19/18	0-0.5		--	4.44	--	--	--	--	--	--	5.38	--	--	--	--	--	--	--	--	--
B79-0.5	11/19/18	0-0.5		--	4.94	--	--	--	--	--	--	15.4	--	--	--	--	--	--	--	--	--
B80-0.5	11/19/18	0-0.5		--	6.50	--	--	--	--	--	--	6.63	--	--	--	--	--	--	--	--	--
B80-0.5 DUP	11/19/18	0-0.5		--	8.33	--	--	--	--	--	--	7.60	--	--	--	--	--	--	--	--	--
B81-0.5	11/20/18	0-0.5		--	4.09	--	--	--	--	--	--	3.34	--	--	--	--	--	--	--	--	--
B82-0.5	11/20/18	0-0.5		--	7.76	--	--	--	--	--	--	7.42	--	--	--	--	--	--	--	--	--
B83-0.5	11/19/18	0-0.5		--	4.42	--	--	--	--	--	--	17.3	--	--	--	--	--	--	--	--	--
B84-0.5	11/19/18	0-0.5		--	4.62	--	--	--	--	--	--	18.2	--	--	--	--	--	--	--	--	--
B85-0.5	11/19/18	0-0.5		--	8.06	--	--	--	--	--	--	24.0	--	--	--	--	--	--	--	--	--
B86-0.5	11/19/18	0-0.5		--	7.91	--	--	--	--	--	--	16.9	--	--	--	--	--	--	--	--	--
B86-0.5 DUP	11/19/18	0-0.5		--	6.40	--	--	--	--	--	--	14.7	--	--	--	--	--	--	--	--	--
B87-0.5	11/19/18	0-0.5		--	5.24	--	--	--	--	--	--	23.1	--	--	--	--	--	--	--	--	--
B88-0.5	11/19/18	0-0.5		--	2.68	--	--	--	--	--	--	15.9	--	--	--	--	--	--	--	--	--
B89-0.5	11/19/18	0-0.5		--	5.72	--	--	--	--	--	--	14.5	--	--	--	--	--	--	--	--	--
B90-0.5	11/19/18	0-0.5		--	6.49	--	--	--	--	--	--	16.3	--	--	--	--	--	--	--	--	--
B91-0.5	11/19/18	0-0.5		--	5.85	--	--	--	--	--	--	13.0	--	--	--	--	--	--	--	--	--
B92-0.5	11/19/18	0-0.5		--	6.28	--	--	--	--	--	--	16.3	--	--	--	--	--	--	--	--	--
B93-0.5	11/19/18	0-0.5		--	5.75	--	--	--	--	--	--	16.2	--	--	--	--	--	--	--	--	--

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Table 4: Title 22 Metals in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Interval (ft bgs)	Title 22 Metals																	
			Antimony	Arsenic		Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead		Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
EPA Method			6010B	6010B	6020A	6010B	6010B	6010B	6010B	6010B	6010B	6010B	DHS-WET / 6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	7471A
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B94-0.5	11/19/18	0-0.5		--	5.58	--	--	--	--	--	--	10.8	--	--	--	--	--	--	--	--	--
B95-0.5	11/21/19	0-0.5		--	3.83	--	--	--	--	--	--	5.13	--	--	--	--	--	--	--	--	--
B96-0.5	11/21/19	0-0.5		--	5.97	--	--	--	--	--	--	4.48	--	--	--	--	--	--	--	--	--
Maximum Concentration			**1.15**	**10.9**	**36.2**	**500**	**1.08**	**6.47**	**45.7**	**30.8**	**54**	**228**	**4.74**	**21.9**	**225**	**12.9**	**0.375**	**2.31**	**50.9**	**802**	**0.296**
SSALs[1]			**31**	**12**	**12 / 24[2]**	**15,000**	**160**	**71**	**NE**	**23**	**3,100**	**80**	**NE**	**390**	**1,500**	**390**	**390**	**0.78[3]**	**390**	**23,000**	**11**
California Hazardous Waste Threshold			**500**	**500**	**500**	**10,000**	**75**	**100**	**2,500**	**8,000**	**2,500**	**1,000**	**5**	**3,500**	**2,000**	**100**	**500**	**700**	**2,400**	**5,000**	**20**

Notes:

ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
-- = Sample not analyzed for compound

TTLC = Total Threshold Limit Concentration
mg/l = milligrams per liter
ND = Not Detected at or above the detection limit

WET = Waste Extraction Test
DUP = Duplicate Sample

Concentrations that exceed SSALs shown in **bold** and shaded in orange

[1] SSALs for arsenic and lead (12 mg/kg and 80 mg/kg, respectively) are from *Scope of Services: PEA Equivalent* document (dated April 23, 2018) by the Los Angeles Unified School District. The SSALs for the remaining Title 22 metals are based on remaining Title 22 metals are based on the EPA's *Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2018.*

[2]The maximum allowable concentration of arsenic is 24 mg/kg (*Scope of Services: PEA Equivalent*, LAUSD OEHS, April 23, 2018). If a limited hot-spot removal at locations B9, B11, B11A, B37, and B37C is performed, the 95% UCL for remaining arsenic concentrations do not exceed the SSAL for arsenic of 12 mg/kg. See text for additional details.

[3]All detected concentrations of thallium exceeded the SSAL for thallium of 0.78 mg/kg. However, the detected concentrations do not appear to originate from an on-site release and therefore are considered background and not of concern. See text for additional details.

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Table 5: Total Petroleum Hydrocarbons and Volatile Organic Compounds in Soil
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Sample Date	Sample Interval (ft bgs)	EPA Method 8015M (mg/kg)			All EPA Method 8260B VOCs (µg/kg)
			GRO (C4 - C12)	DRO (C13 - C22)	ORO (C23 - C40)	
B6-0.5	07/10/18	0-0.5	--	--	--	ND
B13-5	07/10/18	4.5-5	ND	ND	ND	ND
B13-10	07/10/18	9.5-10	ND	ND	ND	ND
B18-3	07/10/18	2.5-3	--	--	--	ND
B95-0.5	11/21/18	0-0.5	ND	ND	19.1	ND
B96-0.5	11/21/18	0-0.5	ND	ND	ND	ND
SSAL[1]			**100**	**100**	**1,000**	**Varies**

Notes:
EPA = United States Environmental Protection Agency
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
ft bgs = feet below ground surface
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOC = Volatile Organic Compound
ND = Not Detected at or above the detection limit
-- = Sample not analyzed for indicated compound

SSAL[1] = Site Specific Action Levels; SSALs are based on Maximum Soil Screening Levels for sites with groundwater depth of less than 20 feet below the sampling depth (MSSLs) from the *Interim Site Assessment & Cleanup Guidebook* (Los Angeles Regional Water Quality Control Board; May 1996)

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Table 6: Gasoline-Range Organics and Volatile Organic Compounds in Soil Vapor
William Howard Taft Charter High School
5461 Winnetka Avenue, Woodland Hills, California 91364

Sample ID	Probe Depth (ft bgs)	Date	VOCs by EPA Method 8260B (µg/l)							GC/MS (µg/l)
			PCE	Toluene	1,2,4-TMB	m,p-Xylene	4-Isopropyl-toluene	LCC	All Other EPA 8260B VOC Analytes	GRO (C4-C12)
B13-SV-5'	5	7/11/2018	0.010	0.021	ND<0.008	0.0510	0.017	ND	ND	8.41
B13-SV-5' REP	5	7/11/2018	0.016	0.012	0.014	0.010	ND	ND	ND	6.18
B13-SV-10'	10	7/11/2018	0.011	ND<0.008	ND<0.008	ND<0.008	ND	ND	ND	ND
SSALs[1]			**5.5**	**2,600**	**31.5**	**50**	**NE**	**NE**	**Varies**	**NE**

Notes:
EPA = United States Environmental Protection Agency
µg/l = micrograms per liter
GC/MS = Gas chromatography–mass spectrometry
ft bgs = feet below ground surface
PCE = Tetrachloroethene
TMB = Trimethylbenzene
LCC = Leak Check Compound (a mixture of n-Pentane, n-Hexane, and n-Heptane was used as the LCC)
VOC = Volatile Organic Compounds
REP = Duplicate sample
ND = Not Detected at or above the detection limit
SSALs = Site-Specific Action Levels
NE = Not established for the compound or suite of compounds

[1] SSALs are calculated using the approach outlined in the Department of Toxic Substances Control's (DTSC's) Vapor Intrusion Guidance (October 2011) with an attenuation factor of 0.002. SSALs are based on the EPA's *Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1) November 2018.*

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APPENDIX A

BORING LOGS WITH BOREHOLE COMPLETION DIAGRAMS

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BORING B1

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SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/10/2018	START: 7:20	END: 7:31	BORING DIAMETER:	3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG: --		TERMINAL DEPTH:	3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE	1ST ENCOUNTERED GROUNDWATER:	N/A
LOGGED BY:	DS	SURFACE:	UNPAVED SOIL	STATIC GROUNDWATER:	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	7:25		B1-0.5'	30.7	ML		SANDY SILT; FINE-GRAINED SAND; DARK BROWN; SOFT; MOIST; NON-PLASTIC; ORGANICS	HYDRATED BENTONITE
	7:28		B1-1.5'	6.0	ML		SAME AS ABOVE; LESS ORGANICS	
	7:31		B1-3'	2.0	ML		SAME AS ABOVE; WITH SOME COBBLES	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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BORING B2

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SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/10/2018	START:	7:40	END: 7:50	BORING DIAMETER: 3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG:	--		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	UNPAVED SOIL		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	7:42		B2-0.5'	70.0	ML		SILT WITH TRACE SAND AND GRAVEL; MEDIUM BROWN; SOFT; MOIST; NON-PLASTIC; ORGANICS; SOLVENT ODOR; NO STAINING	HYDRATED BENTONITE
	7:47		B2-1.5'	2.2	ML		SILT; MEDIUM BROWN; STIFF; MOIST; NON-PLASTIC; NO ODORS; NO STAINING	
	7:50		B2-3'	13.3	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B3

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/10/2018	*START:* 7:55	*END:* 8:05	*BORING DIAMETER:*	3.25"
DRILLING METHOD:	HAND AUGER	*DRILLING RIG:*	--	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	ASPHALT	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							3" ASPHALT	
1	7:58		B3-0.5'	0.5	ML		SANDY SILT; MEDIUM BROWN; SOFT; MOIST; LOW PLASTICITY; NO ODORS; NO STAINING	HYDRATED BENTONITE
	8:02		B3-1.5'	0.9	ML		SAME AS ABOVE	
	8:05		B3-3'	0.4	ML		CLAYEY SILT; MEDIUM BROWN; SOFT; MOIST; PLASTIC; NO ODORS; NO STAINING	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B4

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/10/2018	*START:* 8:20	*END:* 8:30	*BORING DIAMETER:*	3.25"
DRILLING METHOD:	HAND AUGER	*DRILLING RIG:*	--	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED SOIL	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	8:23		B4-0.5'	1.5	ML		SANDY SILT; DARK BROWN; SOFT; MOIST; NON-PLASTIC; NO ODORS; NO STAINING; ORGANICS	HYDRATED BENTONITE
	8:25		B4-1.5'	2.0	ML		SILTY SAND; REDDISH BROWN; SOFT; MOIST; NON-PLASTIC; NO ODORS; NO STAINING; ORGANICS	
	8:30		B4-3'	2.0	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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BORING B5

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SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/10/2018	*START:* 8:35	*END:* 8:45	*BORING DIAMETER:*	3.25"
DRILLING METHOD:	HAND AUGER	*DRILLING RIG:*	--	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED SOIL	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	8:38		B5-0.5'	15.0	ML		SILT; DARK BROWN; SOFT; MOIST; LOW PLASTICITY; NO ODORS; NO STAINING; ORGANICS	HYDRATED BENTONITE
	8:41		B5-1.5'	4.8	ML		SAME AS ABOVE	
	8:45		B5-3'	1.1	SP/SM		POORLY GRADED SAND WITH SILT; FINE TO MEDIUM-GRAINED SAND; MEDIUM BROWN; LOOSE; MOIST; NO ODORS; NO STAINING	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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BORING B6

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/10/2018	*START:* 8:50	*END:* 9:00	*BORING DIAMETER:*	3.25"
DRILLING METHOD:	HAND AUGER	*DRILLING RIG:*	--	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED SOIL	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	8:52		B6-0.5'	152.0	ML		SANDY SILT; DARK BRONW;SOFT; MOIST; NON-PLASTIC; NO ODOR; NO STAINING; ORGANICS	HYDRATED BENTONITE
	8:55		B6-1.5'	109.0	ML		SAME AS ABOVE	
	9:00		B6-3'	145.7	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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BORING B7

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/10/2018	*START:* 9:20	*END:* 9:30	*BORING DIAMETER:*	3.25"
DRILLING METHOD:	HAND AUGER	*DRILLING RIG:*	--	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED SOIL	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	9:23		B7-0.5'	2.6	ML		SANDY SILT; UNPAVED; MEDIUM BROWN; SOFT; MOIST; NON-PLASTIC; ORGANIC MATTER	HYDRATED BENTONITE
	9:25		B7-1.5'	4.3	ML		SAME AS ABOVE	
	9:30		B7-3'	7.8	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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BORING B8

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SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/10/2018	*START:* 9:35	*END:* 9:45	*BORING DIAMETER:*	3.25"
DRILLING METHOD:	HAND AUGER	*DRILLING RIG:*	--	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED SOIL	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	9:37		B8-0.5'	0.7	ML		SANDY SILT; MEDIUM BROWN; SOFT; MOIST; NON-PLASTIC; NO ODOR; NO STAINING; ORAGNICS; CHUNKS OF BRINCK	HYDRATED BENTONITE
	9:40		B8-1.5'	1.0	ML		SAME AS ABOVE	
	9:45		B8-3'	1.2	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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BORING B9

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SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/10/2018	*START:* 9:50	*END:* 10:00	*BORING DIAMETER:*	3.25"
DRILLING METHOD:	HAND AUGER	*DRILLING RIG:*	--	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED SOIL	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	9:52		B9-0.5'	0.5	ML		SANDY SILT WITH CLAY; MEDIUM BROWN; SOFT; MOIST; LOW PLASTICITY; ORANGE MOTTLING; NO ODOR; NO STAINING	HYDRATED BENTONITE
	9:55		B9-1.5'	0.4	ML		SAME AS ABOVE	
	10:00		B9-3'	1.0	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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BORING B10

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/10/2018	START:	10:05	END: 10:15	BORING DIAMETER: 3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG:	--		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	UNPAVED SOIL		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	10:07		B10-0.5'	1.0	ML		SANDY SILT; MEDIUM BROWN; MOIST; SOFT; NON-PLASTIC; NO ODOR; NO STAINING	HYDRATED BENTONITE
	10:10		B10-1.5'	1.1	ML		SAME AS ABOVE	
	10:15		B10-3'	--	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B11

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/10/2018	START: 10:30	END: 10:40	BORING DIAMETER:	3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG:	--	TERMINAL DEPTH:	3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE	1ST ENCOUNTERED GROUNDWATER:	N/A
LOGGED BY:	DS	SURFACE:	UNPAVED SOIL	STATIC GROUNDWATER:	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	10:32		B11-0.5'	0.6	ML		CLAYEY SILT; REDDISH BROWN; SOFT; MOIST; PLASTIC; NO ODORS; NO STAINING	HYDRATED BENTONITE
	10:35		B11-1.5'	0.7	ML		SILT WITH TRACE CLAY; DARK BROWN; MOIST; NON-PLASTIC; NO ODORS; NO STAINING	
	10:40		B11-3'	0.9	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B12

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/10/2018	START: 11:30	END: 11:40		BORING DIAMETER: 3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG: --			TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD: ACETATE			1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE: CONCRETE			STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							4" CONCRETE	
1	11:32		B12-0.5'	0.5	CL		CLAYEY SILT; MEDIUM BROWN; SOFT; MOIST; PLASTIC; DARK BROWN; MOTTLING; NO ODOR; NO STAINING	HYDRATED BENTONITE
	11:35		B12-1.5'	0.5	ML		SILT; MEDIUM BROWN; SOFT; MOIST; LOW PLASTICITY; DARK BROWN; MOTTLING; NO ODOR; NO STAINING	
	11:40		B12-3'	0.0	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B13

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/10/2018	START: 12:10	END: 12:35	BORING DIAMETER:	1.5'
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	LAR	TERMINAL DEPTH:	15' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE	1ST ENCOUNTERED GROUNDWATER:	11.5' BGS
LOGGED BY:	DS	SURFACE:	CONCRETE	STATIC GROUNDWATER:	11.5' BGS

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							4" CONCRETE	
1								
5	12:15		B13-5'	0.3	ML		CLAYEY SILT; DARK BROWN; SOFT; MOIST; PLASTIC; NO ODOR; NO STAINING	HYDRATED BENTONITE
10	12:15		B13-10'	0.8	ML		CLAYEY SILT; BLACK DISCOLORATION; VERY STIFF; MOIST; PLASTIC; SLIGHT HYDROCARBON ODOR	
							GROUNDWATER ENCOUNTERED AT 11.5' BGS	
15	12:35		B13-15'	0.4	ML		SAME AS ABOVE; SATURATED	

BORING TERMINATED AT 15' BGS; GROUNDWATER ENCOUNTERED AT 11.5' BGS

BGS : BELOW GROUND SURFACE

DRAFT

BORING B14

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/10/2018	START:	13:10	END: 13:15	BORING DIAMETER: 1.5"
DRILLING METHOD:	HAND AUGER	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	CONCRETE		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							4" CONCRETE	
1	13:12		B14-0.5'	0.5	ML		SILT; GRAYISH BROWN; MEDIUM STIFF/ STIFF; MOIST; LOW PLASTICITY; ORANGE MOTTLING; NO ODOR; NO STAINING	HYDRATED BENTONITE
	13:13		B14-1.5'	0.7	ML		SAME AS ABOVE	
	13:15		B14-3'	0.3	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B15

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/10/2018	START:	13:20	END: 13:25	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	LAR		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	CONCRETE		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							4" CONCRETE	
1	13:22		B15-0.5'	0.9	ML		SILT WITH TRACE CLAY; YELLOWISH BROWN; MEDIUM STIFFNESS; MOIST; LOW PLASTICITY	HYDRATED BENTONITE
	13:23		B15-1.5'	0.3	ML		SANDY SILT; REDDISH BROWN; SOFT; MOIST; NON-PLASTIC; NO ODOR; NO STAINING	
	13:25		B15-3'	0.9	ML		SAME AS ABOVE; REDDISH BROWN AND ORANGE MOTTLING	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B16

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/10/2018	START:	13:30	END: 13:40	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	LAR		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	UNPAVED SOIL		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	13:33		B16-0.5'	1.7	ML		SANDY SILT; DARK BROWN; SOFT; MOIST; NON-PLASTIC; NO ODOR; NO STAINING	HYDRATED BENTONITE
	13:35		B16-1.5'	0.2	ML		SAME AS ABOVE	
	13:40		B16-3'	--	ML		SANDY SILT WITH CLAY; LIGHT BROWN; STIFF; LOW PLASTICITY; NO ODOR; NO STAINING	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B17

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/10/2018	START:	13:45	END: 13:55	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							3" ASPHALT	
1	13:47		B15-0.5'	1.0	ML		CLAYEY SILT; DARK BROWN; STIFF; MOIST; NO PLASTICITY; DARK GRAY MOTTLING; NO ODOR	HYDRATED BENTONITE
	13:50		B15-1.5'	0.8	CL		SILTY CLAY; BLACK; STIFF; MOIST; PLASTIC; NO ODORS	
	13:55		B15-3'	0.6	CL		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B18

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/10/2018	START:	14:05	END: 14:15	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	UNPAVED SOIL		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	14:07		B16-0.5'	3.1	ML		SANDY SILT; GRAYISH BROWN; MOIST; SOFT; NON-PLASTIC; NO ODOR; NO STAINING	HYDRATED BENTONITE
	14:10		B16-1.5'	4.8	ML		SAME AS ABOVE; DARK; BROWN	
	14:15		B16-3'	180	SM		SILTY SAND; FINE-GRAINED SAND; LIGHT BROWN; MOIST; LOOSE; ORGANICS; NO ODOR; NO DISCOLORATION	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B19

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/10/2018	START:	14:30	END: 14:35	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							3" ASPHALT	
1	14:32		B19-0.5'	1.0	ML		CLAYEY SILT; MEDIUM BROWN; SOFT; MOIST; PLASTIC; NO ODORS; NO DISCOLORATION	HYDRATED BENTONITE
	14:33		B19-1.5'	0.8	ML		SAME AS ABOVE	
	14:35		B19-3'	0.6	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B20

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/10/2018	START: 14:40	END: 14:50	BORING DIAMETER:	1.5"
DRILLING METHOD:	HAND AUGER	DRILLING RIG: --		TERMINAL DEPTH:	3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE	1ST ENCOUNTERED GROUNDWATER:	N/A
LOGGED BY:	DS	SURFACE: --		STATIC GROUNDWATER:	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	14:41		B20-0.5'	151.8	ML		SANDY SILT; LIGHT BROWN; SOFT; MOIST; NON-PLASTIC; NO ODORS; NO STAINING	HYDRATED BENTONITE
	14:43		B20-1.5'	101.6	ML		SAME AS ABOVE	
	14:45		B20-3'	56.2	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B21

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	7:30	END: 7:33	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							4" ASPHALT	
1	7:31		B21-0.5'	0.7	ML		SAND SILT WITH CLAY; FINE-GRAINED SAND; MEDIUM BROWN; FIRM; LOW PLASTICITY; NO ODORS; NO STAINING	HYDRATED BENTONITE
	7:32		B21-1.5'	0.8	ML		SAME AS ABOVE	
	7:33		B21-3'	0.7	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B22

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	7:41	END: 7:43	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3"-4" ASPHALT	
1	7:41		B22-0.5'	0.4	ML		CLAYEY SILT WITH TRACE SAND; FINE-GRAINED SAND; BROWN; MOIST; PLASTIC; ORANGE; MOTTLING; NO STAINING; NO ODORS	HYDRATED BENTONITE
	7:42		B22-1.5'	0.6	ML		SAME AS ABOVE	
	7:43		B22-3'	0.6	CL		SILTY CLAY; BROWN; MOIST; PLASTIC; ORANGE MOTTLING; NO ODORS; NO STAINING	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B23

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/11/2018	START: 7:51	END: 7:53	BORING DIAMETER:	1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK	TERMINAL DEPTH:	3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE	1ST ENCOUNTERED GROUNDWATER:	N/A
LOGGED BY:	DS	SURFACE:	ASPHALT	STATIC GROUNDWATER:	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	9:51		B23-0.5'	0.8	ML		CLAYEY SILT WITH SAND; BROWN; FINE-GRAINED SAND; FIRM; MOIST; PLASTIC; NO ODORS; NO STAINING	HYDRATED BENTONITE
	9:52		B23-1.5'	1.0	ML		SAME AS ABOVE; HIGHER PLASTICITY	
	9:53		B23-3'	112	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B24

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START: 8:05	END: 8:07		BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG: TRUCK			TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD: ACETATE			1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE: ASPHALT			STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	8:05		B24-0.5'	1.2	ML		CLAYEY SILT WITH SAND; LIGHT BROWN; FINE-GRAINED SAND; FIRM; DRY; LOW PLASTICITY; NO ODORS; NO STAINING	HYDRATED BENTONITE
	8:06		B24-1.5'	1.0	ML		SAME AS ABOVE; HIGHER PLASTICITY	
	8:07		B24-3'	0.9	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B25

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	8:40	END: 8:44	BORING DIAMETER: 3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG:	--		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	8:40		B25-0.5'	1.1	ML		SANDY SILT; BROWN ; MOIST; LOW PLASTICITY; FIRM; NO ODORS; NO STAINING	HYDRATED BENTONITE
	8:42		B25-1.5'	1.5	ML		CLAYEY SILT WITH SAND; BROWN; MOIST; LOW PLASTICITY; FIRM; NO ODORS; NO STAINING	
	8:44		B25-3'	1.7	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B26

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	8:50	END: 8:56	BORING DIAMETER: 3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG:	--		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	8:50		B26-0.5'	1.9	ML		CLAYEY SILT; BROWN; MOIST; MEDIUM PLASTICITY; FIRM; NO ODORS; NO STAINING	HYDRATED BENTONITE
	8:52		B26-1.5'	1.6	ML		CLAYEY SILT WITH SAND; BROWN; MOIST; LOW PLASTICITY; FIRM; NO ODORS; NO STAINING	
	8:56		B26-3'	1.4	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B27

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/11/2018	START: 9:25	END: 9:29	BORING DIAMETER:	3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG: --		TERMINAL DEPTH:	3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE	1ST ENCOUNTERED GROUNDWATER:	N/A
LOGGED BY:	DS	SURFACE:	ASPHALT	STATIC GROUNDWATER:	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	9:25		B27-0.5'	1.0	ML		CLAYEY SILT WITH SAND; BROWN; MOIST; FIRM; FINE-GRAINED SAND; LOW/ MEDIUM PLASTICITY; NO ODORS; NO STAINING	HYDRATED BENTONITE
	9:27		B27-1.5'	0.9	ML		SAME AS ABOVE	
	9:29		B27-3'	0.9	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B28

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/11/2018	START: 9:43	END: 9:49	BORING DIAMETER:	3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG:	--	TERMINAL DEPTH:	3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE	1ST ENCOUNTERED GROUNDWATER:	N/A
LOGGED BY:	DS	SURFACE:	CONCRETE	STATIC GROUNDWATER:	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~4" ASPHALT	
1	9:45		B28-0.5'	0.8	ML		SANDY SILT WITH CLAY; FINE-GRAINED SAND; BROWN; MOIST; SOFT; LOW PLASTICITY; NO ODORS; NO STAINING	HYDRATED BENTONITE
	9:47		B28-1.5'	1.0	ML		SAME AS ABOVE	
	9:49		B28-3'	1.2	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B29

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/11/2018	*START:* 9:58	*END:* 10:04	*BORING DIAMETER:*	3.25"
DRILLING METHOD:	HAND AUGER	*DRILLING RIG:*	--	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED SOIL	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	10:00		B29-0.5'	1.3	ML		SANDY SILT; FINE-GRAINED SAND; GRAYISH BROWN; DRY; VERY FIRM; NON-PLASTIC; NO ODORS; NO STAINING	HYDRATED BENTONITE
	10:02		B29-1.5'	1.4	ML		FRACTURED BEDROCK; SILT STONE; LIGHT BROWN; DRY; NO ODORS; NO STAINING	
	10:04		B29-3'	1.6	ML		SANDY SILT; FINE-GRAINED SAND; GRAYISH BROWN; DRY VERY FIRM; NON-PLASTIC; NO ODORS; NO STAINING	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B30

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	10:14	END: 10:20	BORING DIAMETER: 3.25"
DRILLING METHOD:	HAND AUGER	DRILLING RIG:	--		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	10:16		B30-0.5'	1.9	CL		SANDY CLAY; FINE TO COARSE-GRAINED SAND; BROWN; SOFT; MOIST; PLASTIC; ORANGE MOTTLING; NO ODORS; NO STAINING	HYDRATED BENTONITE
	10:18		B30-1.5'	1.7	CL		SAME AS ABOVE; LESS SAND	
	10:20		B30-3'	1.0	CL		SAME AS ABOVE; DARKER BROWN	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B31

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			PROJECT NO.:	9836003557
DATE(S) DRILLED:	07/11/2018	START: --	END: --	BORING DIAMETER:	1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK	TERMINAL DEPTH:	3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE	1ST ENCOUNTERED GROUNDWATER:	N/A
LOGGED BY:	DS	SURFACE:	ASPHALT	STATIC GROUNDWATER:	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~4-5" ASPHALT	
1	10:41		B31-0.5'	1.5	ML		SANDY SILT WITH CLAY; FINE-GRAINED SAND; BROWN; MOIST; FIRM; LOW PLASTICITY; NO ODORS; NO STAINING	HYDRATED BENTONITE
	10:43		B31-1.5'	1.9	CL		SILTY CLAY WITH SAND; FINE-GRAINED SAND; BROWN; MOIST; SOFT; PLASTIC; NO ODORS; NO STAINING	
	10:45		B31-3'	1.0	CL		SILTY CLAY; BROWN; MOIST; FIRM; PLASTIC; NO ODORS; NO STAINING	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B32

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	10:45	END: 10:52	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~4-5" ASPHALT	
1	10:48		B32-0.5'	1.1	ML		SANDY SILT WITH CLAY; BROWN; MOIST; FIRM; LOW PLASTICITY; NO ODORS; NO STAINING	HYDRATED BENTONITE
	10:50		B32-1.5'	1.7	ML		SAME AS ABOVE	
	10:52		B32-3'	1.9	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B33

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/11/2018	*START:* 10:58	*END:* 11:04	*BORING DIAMETER:*	1.5"
DRILLING METHOD:	DIRECT PUSH	*DRILLING RIG:*	TRUCK	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED SOIL	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	11:00		B33-0.5'	1.8	ML		SANDY SILT; FINE-GRAINED SAND; BROWN; DRY; FIRM; NON-PLASTIC; NO ODORS; NO DISCOLORATION	HYDRATED BENTONITE
	11:02		B33-1.5'	0.9	ML		SAME AS ABOVE; ORGANIC MATTER (TREE ROOTS)	
	11:04		B33-3'	0.7	ML		CLAYEY SILT WITH ORGANIC MATTER (TREE ROOTS); BROWN; DRY; VERY FIRM; NON-PLASTIC; NO ODORS; NO DISCOLORATION	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B34

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	11:15	END: 11:20	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	CONCRETE		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~4-5" CONCRETE	
1	11:15		B34-0.5'	0.6	ML		SANDY SILT WITH CLAY; BROWN; DRY; LOW PLASTICITY; FIRM; FINE-GRAINED SAND; NO ODORS; NO STAINING	HYDRATED BENTONITE
	11:17		B34-1.5'	0.2	ML		SAME AS ABOVE	
	11:19		B34-3'	1.1	ML		SAME AS ABOVE; DARK BROWN; MILD ODOR	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B35

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	11:50	END: 11:55	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	CONCRETE		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" CONCRETE	
1	11:51		B35-0.5'	1.4	SW		WELL GRADED SAND WITH SILT AND GRAVEL GRAY; FINE TO COARSE-GRAINED SAND; DRY; LOOSE/ MEDIUM DENSE; NO ODORS; NO STAINING	HYDRATED BENTONITE
	11:53		B35-1.5'	1.4	SM		SILTY SAND; FINE TO COARSE-GRAINED SAND; BROWN; DRY; MEDIUM DENSE; NO ODORS; NO STAINING	
	11:55		B35-3'	1.3	SM		SAME AS ABOVE; DARKER BROWN; MORE MOISTURE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B36

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	11:58	END: 12:04	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~4" ASPHALT	
1	12:00		B36-0.5'	2.7	ML		SILT; LIGHT BROWN; DRY; FIRM/ VERY FIRM; NON-PLASTIC; NO ODORS; NO STAINING	HYDRATED BENTONITE
	12:02		B36-1.5'	3.0	ML		SAME AS ABOVE	
	12:04		B36-3'	2.2	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B37

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	12:10	END: 12:15	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	UNPAVED		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	12:11		B37-0.5'	0.9	ML		SANDY SILT WITH ORGANIC MATTER (TREE ROOTS); GRAYISH BROWN ;DRY; FIRM; NON-PLASTIC; NO ODORS; NO STAINING	HYDRATED BENTONITE
	12:13		B37-1.5'	1.4	ML		SAME AS ABOVE	
	12:15		B37-3'	0.7	ML		SAME AS ABOVE WITH FRACTURED SILTSTONE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B38

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	12:22	END: 12:28	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	12:24		B38-0.5'	1.5	ML		SANDY SILT; DARK BROWN; MOIST; FIRM; DRY; NON-PLASTIC; WHITE MOTTLING; NO ODORS OR STAINING	HYDRATED BENTONITE
	12:26		B38-1.5'	0.9	ML		SAME AS ABOVE; MICACEOUS	
	12:28		B38-3'	1.3	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B39

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	12:38	END: 12:44	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3-4" ASPHALT	
1	12:40		B39-0.5'	0.5	ML		SANDY SILT; DARK BROWN; FIRM; DRY; NON-PLASTIC; NO ODORS; NO DISCOLORATION	HYDRATED BENTONITE
	12:42		B39-1.5'	0.7	ML		SAME AS ABOVE	
	12:44		B39-3'	0.9	ML		SAME AS ABOVE; ORANGE MOTTLING	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B40

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START: 12:48	END: 12:54		BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG: TRUCK			TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD: ACETATE			1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE: ASPHALT			STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3-4" ASPHALT	
1	12:50		B40-0.5'	0.9	ML		SANDY SILT; FINE-GRAINED SAND; DARK BROWN; MOIST; SOFT; NON-PLASTIC; NO ODORS; NO STAINING; MICACEOUS	HYDRATED BENTONITE
	12:52		B40-1.5'	0.3	ML		SAME AS ABOVE	
	12:54		B40-3'	0.7	ML		SAME AS ABOVE; DRYER	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B41

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/11/2018	*START:* 12:58	*END:* 13:06	*BORING DIAMETER:*	1.5"
DRILLING METHOD:	DIRECT PUSH	*DRILLING RIG:*	TRUCK	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	13:00		B41-0.5'	0.4	ML		SANDY SILT; FINE-GRAINED SAND; BROWN; DRY; FIRM; NON-PLASTIC; NO ODORS; NO STAINING	HYDRATED BENTONITE
	13:02		B41-1.5'	0.5	ML		SAME AS ABOVE	
	13:04		B41-3'	0.4	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B42

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	13:46	END: 13:50	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	UNPAVED		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	13:46		B42-0.5'	1.3	ML		SANDY SILT; BROWN; DRY; SOFT; VERY FINE-GRAINED SAND; MANY PLANT LITTER; MILD ODOR; NO STAINING	HYDRATED BENTONITE
	13:48		B42-1.5'	1.2	ML		SAME AS ABOVE	
	13:50		B42-3'	1.1	ML		SAME AS ABOVE; LIGHT BROWN	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B43

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364			*PROJECT NO.:*	9836003557
DATE(S) DRILLED:	07/11/2018	*START:* 13:50	*END:* 14:04	*BORING DIAMETER:*	1.5"
DRILLING METHOD:	DIRECT PUSH	*DRILLING RIG:*	TRUCK	*TERMINAL DEPTH:*	3' BGS
DRILLING CONTRACTOR:	KEHOE	*SAMPLING METHOD:*	ACETATE	*1ST ENCOUNTERED GROUNDWATER:*	N/A
LOGGED BY:	DS	*SURFACE:*	UNPAVED	*STATIC GROUNDWATER:*	N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
1	14:00		B43-0.5'	0.5	ML		SILTY SAND; FINE-GRAINED SAND; BROWN; DRY; FIRM; NON-PLASTIC; NO ODOR; NO DISCOLORATION; ORGANIC MATTER (TREE ROOTS)	HYDRATED BENTONITE
	14:02		B43-1.5'	0.6	ML		SAME AS ABOVE; LESS TREE ROOTS	
	14:04		B43-3'	0.9	ML		SAME AS ABOVE; TRACE GRAVEL	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B44

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	14:08	END: 14:14	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	14:10		B44-0.5'	0.5	ML		SANDY SILT WITH CLAY; FINE-GRAINED SAND; BROWN; DRY; FIRM; LOW PLASTICITY	HYDRATED BENTONITE
	14:12		B44-1.5'	1.0	ML		SAME AS ABOVE	
	14:14		B44-3'	0.4	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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BORING B45

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	14:14	END: 14:20	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	14:16		B45-0.5'	0.5	CL		SILTY CLAY WITH SAND; DARK BROWN; MOIST; STIFF; PLASTIC; NO ODORS; NO STAINING	HYDRATED BENTONITE
	14:18		B45-1.5'	1.7	CL		SAME AS ABOVE	
	14:20		B45-3'	0.5	CL		SAME AS ABOVE; DARKER BROWN	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B46

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	14:30	END: 14:36	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	14:32		B46-0.5'	0.1	CL		SILTY CLAY; BROWN; VERY STIFF; MOIST; MEDIUM PLASTICITY; MOTTLED WITH ORANGE-BROWN SILTSTONE; NO ODORS; NO DISCOLORATION	HYDRATED BENTONITE
	14:34		B46-1.5'	1.5	ML		CLAYEY SILT; LIGHT BROWN; STIFF; MOIST; MEDIUM PLASTICITY; MOTTLED WITH ORANGE-BROWN SILTSTONE; NO ODORS; NO DISCOLORATION	
	14:36		B46-3'	0.4	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B47

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	14:43	END: 14:50	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3-4" ASPHALT	
1	14:46		B47-0.5'	0.3	CL		SILTY CLAY; BROWN; STIFF; MOIST; MEDIUM PLASTICITY; NO ODORS; NO DISCOLORATION	HYDRATED BENTONITE
	14:48		B47-1.5'	0.0	CL		SAME AS ABOVE	
	14:50		B47-3'	0.1	CL		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B48

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	14:54	END: 15:00	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3-4" ASPHALT	
1	14:56		B48-0.5'	0.5	CL		SILTY CLAY WITH SAND; FINE-GRAINED SAND; LIGHT BROWN; MOIST; MEDIUM PLASTICITY	HYDRATED BENTONITE
	14:58		B48-1.5'	0.7	CL		SAME AS ABOVE; MOTTLED WITH ORANGE/ BROWN SILTSTONE	
	15:00		B48-3'	0.5	CL		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

DRAFT

BORING B49

efi global

SITE ADDRESS:	5461 WINNETKA AVE., WOODLAND HILLS, CA 91364				PROJECT NO.: 9836003557
DATE(S) DRILLED:	07/11/2018	START:	15:02	END: 15:08	BORING DIAMETER: 1.5"
DRILLING METHOD:	DIRECT PUSH	DRILLING RIG:	TRUCK		TERMINAL DEPTH: 3' BGS
DRILLING CONTRACTOR:	KEHOE	SAMPLING METHOD:	ACETATE		1ST ENCOUNTERED GROUNDWATER: N/A
LOGGED BY:	DS	SURFACE:	ASPHALT		STATIC GROUNDWATER: N/A

DEPTH (FEET)	SAMPLE TIME	BLOW COUNT	SAMPLE ID	PID READING	USCS CLASS	LITHOGICAL SYMBOL	DESCRIPTION	COMPLETION
							~3" ASPHALT	
1	15:04		B49-0.5'	1.4	ML		CLAYEY SILT WITH SAND; FINE-GRAINED SAND; BROWN; MOIST; FIRM; LOW PLASTICITY; NO ODORS; NO DISCOLORATION	HYDRATED BENTONITE
	15:06		B49-1.5'	1.0	ML		SAME AS ABOVE	
	15:08		B49-3'	0.3	ML		SAME AS ABOVE	

BORING TERMINATED AT 3' BGS; NO GROUNDWATER ENCOUNTERED

BGS : BELOW GROUND SURFACE

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APPENDIX B

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

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WORK ORDER NUMBER: 18-07-0682

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: Taft Charter High School

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 07/24/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-07-0682

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Work Order Narrative

Work Order: 18-07-0682 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/11/18. They were assigned to Work Order 18-07-0682.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0682
		Project Name:	Taft Charter High School
		PO Number:	9836003557
		Date/Time Received:	07/11/18 17:30
		Number of Containers:	85
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B1-0.5	18-07-0682-1	07/10/18 07:25	1	Solid
B1-1.5	18-07-0682-2	07/10/18 07:28	1	Solid
B1-3	18-07-0682-3	07/10/18 07:31	1	Solid
B2-0.5	18-07-0682-4	07/10/18 07:42	1	Solid
B2-1.5	18-07-0682-5	07/10/18 07:47	1	Solid
B2-3	18-07-0682-6	07/10/18 07:50	1	Solid
B3-0.5	18-07-0682-7	07/10/18 07:58	1	Solid
B3-1.5	18-07-0682-8	07/10/18 08:02	1	Solid
B3-3	18-07-0682-9	07/10/18 08:05	1	Solid
B4-0.5	18-07-0682-10	07/10/18 08:23	1	Solid
B4-1.5	18-07-0682-11	07/10/18 08:25	1	Solid
B4-3	18-07-0682-12	07/10/18 08:30	1	Solid
B5-0.5	18-07-0682-13	07/10/18 08:38	1	Solid
B5-0.5-DUP	18-07-0682-14	07/10/18 08:38	1	Solid
B5-1.5	18-07-0682-15	07/10/18 08:41	1	Solid
B5-3	18-07-0682-16	07/10/18 08:45	1	Solid
B6-0.5	18-07-0682-17	07/10/18 08:52	1	Solid
B6-1.5	18-07-0682-18	07/10/18 08:55	1	Solid
B6-3	18-07-0682-19	07/10/18 09:00	1	Solid
B7-0.5	18-07-0682-20	07/10/18 09:23	1	Solid
B7-1.5	18-07-0682-21	07/10/18 09:25	1	Solid
B7-3	18-07-0682-22	07/10/18 09:30	1	Solid
B8-0.5	18-07-0682-23	07/10/18 09:37	1	Solid
B8-1.5	18-07-0682-24	07/10/18 09:40	1	Solid
B8-3	18-07-0682-25	07/10/18 09:45	1	Solid
B9-0.5	18-07-0682-26	07/10/18 09:52	1	Solid
B9-0.5DUP	18-07-0682-27	07/10/18 09:52	1	Solid
B9-1.5	18-07-0682-28	07/10/18 09:55	1	Solid
B9-3	18-07-0682-29	07/10/18 10:00	1	Solid
B10-0.5	18-07-0682-30	07/10/18 10:07	1	Solid
B10-0.5DUP	18-07-0682-31	07/10/18 10:07	1	Solid
B10-1.5	18-07-0682-32	07/10/18 10:10	1	Solid
B10-3	18-07-0682-33	07/10/18 10:15	1	Solid
B11-0.5	18-07-0682-34	07/10/18 10:32	1	Solid
B11-1.5	18-07-0682-35	07/10/18 10:35	1	Solid
B11-3	18-07-0682-36	07/10/18 10:40	1	Solid
B12-0.5	18-07-0682-37	07/10/18 11:32	1	Solid
B12-1.5	18-07-0682-38	07/10/18 11:35	1	Solid
B12-3	18-07-0682-39	07/10/18 11:40	1	Solid
B13-5	18-07-0682-40	07/10/18 12:15	5	Solid
B13-10	18-07-0682-41	07/10/18 12:25	5	Solid
B13-15	18-07-0682-42	07/10/18 12:35	5	Solid

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0682
		Project Name:	Taft Charter High School
		PO Number:	9836003557
		Date/Time Received:	07/11/18 17:30
		Number of Containers:	85
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B14-0.5	18-07-0682-43	07/10/18 13:12	1	Solid
B14-1.5	18-07-0682-44	07/10/18 13:13	1	Solid
B14-3	18-07-0682-45	07/10/18 13:15	1	Solid
B15-0.5	18-07-0682-46	07/10/18 13:22	1	Solid
B15-1.5	18-07-0682-47	07/10/18 13:23	1	Solid
B15-3	18-07-0682-48	07/10/18 13:25	1	Solid
B16-0.5	18-07-0682-49	07/10/18 13:33	1	Solid
B16-1.5	18-07-0682-50	07/10/18 13:35	1	Solid
B16-3	18-07-0682-51	07/10/18 13:40	1	Solid
B17-0.5	18-07-0682-52	07/10/18 13:47	1	Solid
B17-1.5	18-07-0682-53	07/10/18 13:50	1	Solid
B17-3	18-07-0682-54	07/10/18 13:55	1	Solid
B18-0.5	18-07-0682-55	07/10/18 14:07	1	Solid
B18-1.5	18-07-0682-56	07/10/18 14:10	1	Solid
B18-3	18-07-0682-57	07/10/18 14:15	1	Solid
B19-0.5	18-07-0682-58	07/10/18 14:32	1	Solid
B19-1.5	18-07-0682-59	07/10/18 14:33	1	Solid
B19-3	18-07-0682-60	07/10/18 14:35	1	Solid
B20-0.5	18-07-0682-61	07/10/18 14:41	1	Solid
B20-1.5	18-07-0682-62	07/10/18 14:43	1	Solid
B20-3	18-07-0682-63	07/10/18 14:45	1	Solid
TB-1	18-07-0682-64	07/10/18 00:00	2	Aqueous
EB-1	18-07-0682-65	07/10/18 00:00	8	Aqueous

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B1-0.5 (18-07-0682-1)						
Barium	129		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.503		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.23		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.9		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.53		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	30.2		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	13.5		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.05		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.0		0.250	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.9		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	68.4		1.00	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.19		1.00	mg/kg	EPA 6020	EPA 3050B
B2-0.5 (18-07-0682-4)						
Barium	137		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.335		0.246	mg/kg	EPA 6010B	EPA 3050B
Chromium	15.2		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.8		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	33.7		0.485	mg/kg	EPA 6010B	EPA 3050B
Lead	58.2		0.485	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.31		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	14.0		0.246	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.0		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	79.4		0.971	mg/kg	EPA 6010B	EPA 3050B
Arsenic	16.5		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0826		0.0806	mg/kg	EPA 7471A	EPA 7471A Total
4,4'-DDE	41		24	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	27		4.9	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 2 of 12

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B3-0.5 (18-07-0682-7)						
Barium	92.3		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.440		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.567		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	27.8		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.28		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	38.0		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	3.71		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	14.7		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	18.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.43		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	75.4		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.88		1.00	mg/kg	EPA 6020	EPA 3050B
B4-0.5 (18-07-0682-10)						
Barium	143		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.454		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.47		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	24.9		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.89		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	32.3		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	54.4		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.84		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.0		0.254	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.840		0.761	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.7		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	147		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.62		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	160		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	28		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	28		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 3 of 12

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B5-0.5 (18-07-0682-13)						
Barium	141		0.524	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.440		0.262	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.33		0.524	mg/kg	EPA 6010B	EPA 3050B
Chromium	24.2		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	12.4		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	38.9		0.524	mg/kg	EPA 6010B	EPA 3050B
Lead	22.5		0.524	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.81		0.262	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.5		0.262	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.41		0.785	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.0		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	145		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.96		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.166		0.0877	mg/kg	EPA 7471A	EPA 7471A Total
Chlordane	76		49	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	7.9		4.9	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	5.3		4.9	ug/kg	EPA 8081A	EPA 3545
Dieldrin	74		24	ug/kg	EPA 8081A	EPA 3545
B5-0.5-DUP (18-07-0682-14)						
Barium	161		0.521	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.384		0.260	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.17		0.521	mg/kg	EPA 6010B	EPA 3050B
Chromium	23.3		0.260	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.54		0.260	mg/kg	EPA 6010B	EPA 3050B
Copper	40.1		0.521	mg/kg	EPA 6010B	EPA 3050B
Lead	25.2		0.521	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.83		0.260	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.3		0.260	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.43		0.781	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.1		0.260	mg/kg	EPA 6010B	EPA 3050B
Zinc	146		1.04	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.35		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	61		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	7.5		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	8.1		5.0	ug/kg	EPA 8081A	EPA 3545
Dieldrin	67		25	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 4 of 12

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B6-0.5 (18-07-0682-17)						
Barium	152		0.490	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.598		0.245	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.23		0.490	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.0		0.245	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.53		0.245	mg/kg	EPA 6010B	EPA 3050B
Copper	22.9		0.490	mg/kg	EPA 6010B	EPA 3050B
Lead	16.5		0.490	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.21		0.245	mg/kg	EPA 6010B	EPA 3050B
Nickel	25.8		0.245	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.44		0.735	mg/kg	EPA 6010B	EPA 3050B
Vanadium	34.7		0.245	mg/kg	EPA 6010B	EPA 3050B
Zinc	65.9		0.980	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.34		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	65		50	ug/kg	EPA 8081A	EPA 3545
B7-0.5 (18-07-0682-20)						
Barium	212		0.513	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.483		0.256	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.40		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	26.4		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.40		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	42.2		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	7.58		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.27		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	36.4		0.256	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.22		0.769	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.8		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	89.6		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.89		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 5 of 12

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B8-0.5 (18-07-0682-23)						
Barium	145		0.524	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.523		0.262	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.17		0.524	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.9		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.99		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	28.7		0.524	mg/kg	EPA 6010B	EPA 3050B
Lead	13.1		0.524	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.11		0.262	mg/kg	EPA 6010B	EPA 3050B
Nickel	23.2		0.262	mg/kg	EPA 6010B	EPA 3050B
Vanadium	34.2		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	64.2		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	11.5		1.00	mg/kg	EPA 6020	EPA 3050B
B9-0.5 (18-07-0682-26)						
Barium	163		0.524	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.426		0.262	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.24		0.524	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.5		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.67		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	30.5		0.524	mg/kg	EPA 6010B	EPA 3050B
Lead	13.5		0.524	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.74		0.262	mg/kg	EPA 6010B	EPA 3050B
Nickel	27.5		0.262	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.874		0.785	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.1		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	106		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	23.9		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.187		0.0847	mg/kg	EPA 7471A	EPA 7471A Total
4,4'-DDE	9.0		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	10		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B9-0.5DUP (18-07-0682-27)						
Barium	139		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.387		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.09		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	19.1		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.88		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	31.2		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	12.0		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.39		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	24.7		0.246	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.24		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	30.8		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	115		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	28.4		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	7.4		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	7.9		5.0	ug/kg	EPA 8081A	EPA 3545
B10-0.5 (18-07-0682-30)						
Barium	85.6		0.521	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.345		0.260	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.946		0.521	mg/kg	EPA 6010B	EPA 3050B
Chromium	14.5		0.260	mg/kg	EPA 6010B	EPA 3050B
Cobalt	4.36		0.260	mg/kg	EPA 6010B	EPA 3050B
Copper	22.3		0.521	mg/kg	EPA 6010B	EPA 3050B
Lead	24.9		0.521	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.28		0.260	mg/kg	EPA 6010B	EPA 3050B
Nickel	16.7		0.260	mg/kg	EPA 6010B	EPA 3050B
Vanadium	22.6		0.260	mg/kg	EPA 6010B	EPA 3050B
Zinc	58.1		1.04	mg/kg	EPA 6010B	EPA 3050B
Arsenic	10.3		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B10-0.5DUP (18-07-0682-31)						
Barium	97.4		0.513	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.352		0.256	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.973		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	13.9		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.22		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	21.2		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	17.7		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.63		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	18.7		0.256	mg/kg	EPA 6010B	EPA 3050B
Vanadium	25.3		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	51.7		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	11.1		1.00	mg/kg	EPA 6020	EPA 3050B
B11-0.5 (18-07-0682-34)						
Barium	129		0.510	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.389		0.255	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.817		0.510	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.8		0.255	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.76		0.255	mg/kg	EPA 6010B	EPA 3050B
Copper	48.2		0.510	mg/kg	EPA 6010B	EPA 3050B
Lead	9.05		0.510	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.45		0.255	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.6		0.255	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.52		0.765	mg/kg	EPA 6010B	EPA 3050B
Vanadium	30.4		0.255	mg/kg	EPA 6010B	EPA 3050B
Zinc	90.3		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	21.1		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B12-0.5 (18-07-0682-37)						
Barium	153		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.402		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.17		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	29.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	11.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	34.7		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	5.44		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.71		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.9		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.28		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	34.1		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	71.8		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.84		1.00	mg/kg	EPA 6020	EPA 3050B
B13-5 (18-07-0682-40)						
Arsenic	5.44		0.743	mg/kg	EPA 6010B	EPA 3050B
Barium	93.0		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.380		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.984		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	22.4		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	4.94		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	32.7		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	3.83		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.99		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.2		0.248	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.23		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	24.5		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	69.2		0.990	mg/kg	EPA 6010B	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B13-10 (18-07-0682-41)						
Arsenic	4.08		0.714	mg/kg	EPA 6010B	EPA 3050B
Barium	244		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.543		0.238	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.816		0.476	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.5		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.28		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	27.6		0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	4.20		0.476	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.96		0.238	mg/kg	EPA 6010B	EPA 3050B
Nickel	24.3		0.238	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.977		0.714	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.3		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	38.1		0.952	mg/kg	EPA 6010B	EPA 3050B
B14-0.5 (18-07-0682-43)						
Barium	165		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.275		0.238	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.575		0.476	mg/kg	EPA 6010B	EPA 3050B
Chromium	24.3		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	4.14		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	50.2		0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	8.41		0.476	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.85		0.238	mg/kg	EPA 6010B	EPA 3050B
Nickel	13.7		0.238	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.31		0.714	mg/kg	EPA 6010B	EPA 3050B
Silver	0.246		0.238	mg/kg	EPA 6010B	EPA 3050B
Vanadium	22.4		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	56.1		0.952	mg/kg	EPA 6010B	EPA 3050B
Arsenic	1.49		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 10 of 12

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B15-0.5 (18-07-0682-46)						
Barium	58.4		0.510	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.321		0.255	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.513		0.510	mg/kg	EPA 6010B	EPA 3050B
Chromium	31.3		0.255	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.29		0.255	mg/kg	EPA 6010B	EPA 3050B
Copper	40.8		0.510	mg/kg	EPA 6010B	EPA 3050B
Lead	2.38		0.510	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	13.1		0.255	mg/kg	EPA 6010B	EPA 3050B
Nickel	16.1		0.255	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.51		0.765	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.3		0.255	mg/kg	EPA 6010B	EPA 3050B
Zinc	86.1		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	10.1		1.00	mg/kg	EPA 6020	EPA 3050B
B16-0.5 (18-07-0682-49)						
Barium	98.0		0.478	mg/kg	EPA 6010B	EPA 3050B
Chromium	10.4		0.239	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.97		0.239	mg/kg	EPA 6010B	EPA 3050B
Copper	12.6		0.478	mg/kg	EPA 6010B	EPA 3050B
Lead	20.6		0.478	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.472		0.239	mg/kg	EPA 6010B	EPA 3050B
Nickel	10.5		0.239	mg/kg	EPA 6010B	EPA 3050B
Vanadium	23.5		0.239	mg/kg	EPA 6010B	EPA 3050B
Zinc	40.6		0.957	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.05		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.115		0.0847	mg/kg	EPA 7471A	EPA 7471A Total
Chlordane	74		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	500		100	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	32		5.0	ug/kg	EPA 8081A	EPA 3545
Dieldrin	15		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 11 of 12

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B17-0.5 (18-07-0682-52)						
Barium	98.0		0.478	mg/kg	EPA 6010B	EPA 3050B
Chromium	10.4		0.239	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.97		0.239	mg/kg	EPA 6010B	EPA 3050B
Copper	12.6		0.478	mg/kg	EPA 6010B	EPA 3050B
Lead	20.6	B	0.478	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.472		0.239	mg/kg	EPA 6010B	EPA 3050B
Nickel	10.5		0.239	mg/kg	EPA 6010B	EPA 3050B
Vanadium	23.5		0.239	mg/kg	EPA 6010B	EPA 3050B
Zinc	40.6		0.957	mg/kg	EPA 6010B	EPA 3050B
Arsenic	10.1		1.00	mg/kg	EPA 6020	EPA 3050B
B18-0.5 (18-07-0682-55)						
Barium	137		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.335		0.246	mg/kg	EPA 6010B	EPA 3050B
Chromium	15.2		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.8		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	17.8		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	8.81	B	0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.31		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	14.0		0.246	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.0		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	61.4		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.32		1.00	mg/kg	EPA 6020	EPA 3050B
B19-0.5 (18-07-0682-58)						
Antimony	0.758		0.754	mg/kg	EPA 6010B	EPA 3050B
Barium	92.0		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	6.31		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.44		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	10.7		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	23.2	B	0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.895		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	9.61		0.251	mg/kg	EPA 6010B	EPA 3050B
Vanadium	23.7		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	46.0		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	10.1		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B20-0.5 (18-07-0682-61)						
Antimony	1.15		0.785	mg/kg	EPA 6010B	EPA 3050B
Barium	130		0.524	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.348		0.262	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.914		0.524	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.3		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.39		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	25.9		0.524	mg/kg	EPA 6010B	EPA 3050B
Lead	25.6	B	0.524	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.24		0.262	mg/kg	EPA 6010B	EPA 3050B
Nickel	16.5		0.262	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.9		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	111		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.24		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.164		0.0794	mg/kg	EPA 7471A	EPA 7471A Total
Chlordane	360		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	7.8		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	12		5.0	ug/kg	EPA 8081A	EPA 3545

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Subcontracted analyses, if any, are not included in this summary.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13-5	**18-07-0682-40-A**	**07/10/18 12:15**	**Solid**	**GC 50**	**07/16/18**	**07/16/18 20:24**	**180716B01B**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.2	1.00	
C7	ND	5.2	1.00	
C8	ND	5.2	1.00	
C9-C10	ND	5.2	1.00	
C11-C12	ND	5.2	1.00	
C13-C14	ND	5.2	1.00	
C15-C16	ND	5.2	1.00	
C17-C18	ND	5.2	1.00	
C19-C20	ND	5.2	1.00	
C21-C22	ND	5.2	1.00	
C23-C24	ND	5.2	1.00	
C25-C28	ND	5.2	1.00	
C29-C32	ND	5.2	1.00	
C33-C36	ND	5.2	1.00	
C37-C40	ND	5.2	1.00	
C41-C44	ND	5.2	1.00	

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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13-10	**18-07-0682-41-A**	**07/10/18 12:25**	**Solid**	**GC 50**	**07/16/18**	**07/16/18 20:44**	**180716B01B**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	

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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: Taft Charter High School			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	**099-15-490-3184**	**N/A**	**Solid**	**GC 50**	**07/16/18**	**07/16/18 18:07**	**180716B01B**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	84	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: Taft Charter High School			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-07-0682-65-F**	**07/10/18 00:00**	**Aqueous**	**GC 47**	**07/16/18**	**07/17/18 17:38**	**180716B06**

Parameter	Result	RL	DF	Qualifiers
C6	ND	100	1.00	
C7	ND	100	1.00	
C8	ND	100	1.00	
C9-C10	ND	100	1.00	
C11-C12	ND	100	1.00	
C13-C14	ND	100	1.00	
C15-C16	ND	100	1.00	
C17-C18	ND	100	1.00	
C19-C20	ND	100	1.00	
C21-C22	ND	100	1.00	
C23-C24	ND	100	1.00	
C25-C28	ND	100	1.00	
C29-C32	ND	100	1.00	
C33-C36	ND	100	1.00	
C37-C40	ND	100	1.00	
C41-C44	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	125	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: Taft Charter High School			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	**099-15-498-619**	**N/A**	**Aqueous**	**GC 47**	**07/16/18**	**07/17/18 12:12**	**180716B06**

Parameter	Result	RL	DF	Qualifiers
C6	ND	100	1.00	
C7	ND	100	1.00	
C8	ND	100	1.00	
C9-C10	ND	100	1.00	
C11-C12	ND	100	1.00	
C13-C14	ND	100	1.00	
C15-C16	ND	100	1.00	
C17-C18	ND	100	1.00	
C19-C20	ND	100	1.00	
C21-C22	ND	100	1.00	
C23-C24	ND	100	1.00	
C25-C28	ND	100	1.00	
C29-C32	ND	100	1.00	
C33-C36	ND	100	1.00	
C37-C40	ND	100	1.00	
C41-C44	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-0.5	**18-07-0682-1-A**	**07/10/18 07:25**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:34**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	129	0.500	1.00	
Beryllium	0.503	0.250	1.00	
Cadmium	1.23	0.500	1.00	
Chromium	20.9	0.250	1.00	
Cobalt	8.53	0.250	1.00	
Copper	30.2	0.500	1.00	
Lead	13.5	0.500	1.00	
Molybdenum	2.05	0.250	1.00	
Nickel	30.0	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	31.9	0.250	1.00	
Zinc	68.4	1.00	1.00	

B2-0.5	**18-07-0682-4-A**	**07/10/18 07:42**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:35**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	137	0.493	0.985	
Beryllium	0.335	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	15.2	0.246	0.985	
Cobalt	10.8	0.246	0.985	
Copper	33.7	0.485	0.971	
Lead	58.2	0.485	0.971	
Molybdenum	1.31	0.246	0.985	
Nickel	14.0	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	35.0	0.246	0.985	
Zinc	79.4	0.971	0.971	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-0.5	**18-07-0682-7-A**	**07/10/18 07:58**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:36**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	92.3	0.498	0.995	
Beryllium	0.440	0.249	0.995	
Cadmium	0.567	0.498	0.995	
Chromium	27.8	0.249	0.995	
Cobalt	6.28	0.249	0.995	
Copper	38.0	0.498	0.995	
Lead	3.71	0.498	0.995	
Molybdenum	14.7	0.249	0.995	
Nickel	18.4	0.249	0.995	
Selenium	4.43	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	31.4	0.249	0.995	
Zinc	75.4	0.995	0.995	

B4-0.5	**18-07-0682-10-A**	**07/10/18 08:23**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:36**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Barium	143	0.508	1.02	
Beryllium	0.454	0.254	1.02	
Cadmium	1.47	0.508	1.02	
Chromium	24.9	0.254	1.02	
Cobalt	6.89	0.254	1.02	
Copper	32.3	0.508	1.02	
Lead	54.4	0.508	1.02	
Molybdenum	2.84	0.254	1.02	
Nickel	22.0	0.254	1.02	
Selenium	0.840	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	32.7	0.254	1.02	
Zinc	147	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 3 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-0.5	**18-07-0682-13-A**	**07/10/18 08:38**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:37**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Barium	141	0.524	1.05	
Beryllium	0.440	0.262	1.05	
Cadmium	1.33	0.524	1.05	
Chromium	24.2	0.262	1.05	
Cobalt	12.4	0.262	1.05	
Copper	38.9	0.524	1.05	
Lead	22.5	0.524	1.05	
Molybdenum	5.81	0.262	1.05	
Nickel	29.5	0.262	1.05	
Selenium	1.41	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	32.0	0.262	1.05	
Zinc	145	1.05	1.05	

B5-0.5-DUP	**18-07-0682-14-A**	**07/10/18 08:38**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:38**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Barium	161	0.521	1.04	
Beryllium	0.384	0.260	1.04	
Cadmium	1.17	0.521	1.04	
Chromium	23.3	0.260	1.04	
Cobalt	7.54	0.260	1.04	
Copper	40.1	0.521	1.04	
Lead	25.2	0.521	1.04	
Molybdenum	6.83	0.260	1.04	
Nickel	26.3	0.260	1.04	
Selenium	2.43	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	31.1	0.260	1.04	
Zinc	146	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 4 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-0.5	**18-07-0682-17-A**	**07/10/18 08:52**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:40**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Barium	152	0.490	0.980	
Beryllium	0.598	0.245	0.980	
Cadmium	1.23	0.490	0.980	
Chromium	20.0	0.245	0.980	
Cobalt	7.53	0.245	0.980	
Copper	22.9	0.490	0.980	
Lead	16.5	0.490	0.980	
Molybdenum	2.21	0.245	0.980	
Nickel	25.8	0.245	0.980	
Selenium	2.44	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	34.7	0.245	0.980	
Zinc	65.9	0.980	0.980	

B7-0.5	**18-07-0682-20-A**	**07/10/18 09:23**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:41**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Barium	212	0.513	1.03	
Beryllium	0.483	0.256	1.03	
Cadmium	1.40	0.513	1.03	
Chromium	26.4	0.256	1.03	
Cobalt	8.40	0.256	1.03	
Copper	42.2	0.513	1.03	
Lead	7.58	0.513	1.03	
Molybdenum	4.27	0.256	1.03	
Nickel	36.4	0.256	1.03	
Selenium	2.22	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	31.8	0.256	1.03	
Zinc	89.6	1.03	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 5 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-0.5	**18-07-0682-23-A**	**07/10/18 09:37**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:41**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Barium	145	0.524	1.05	
Beryllium	0.523	0.262	1.05	
Cadmium	1.17	0.524	1.05	
Chromium	18.9	0.262	1.05	
Cobalt	6.99	0.262	1.05	
Copper	28.7	0.524	1.05	
Lead	13.1	0.524	1.05	
Molybdenum	2.11	0.262	1.05	
Nickel	23.2	0.262	1.05	
Selenium	ND	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	34.2	0.262	1.05	
Zinc	64.2	1.05	1.05	

B9-0.5	**18-07-0682-26-A**	**07/10/18 09:52**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:42**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Barium	163	0.524	1.05	
Beryllium	0.426	0.262	1.05	
Cadmium	1.24	0.524	1.05	
Chromium	20.5	0.262	1.05	
Cobalt	7.67	0.262	1.05	
Copper	30.5	0.524	1.05	
Lead	13.5	0.524	1.05	
Molybdenum	2.74	0.262	1.05	
Nickel	27.5	0.262	1.05	
Selenium	0.874	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	32.1	0.262	1.05	
Zinc	106	1.05	1.05	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 6 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-0.5DUP	**18-07-0682-27-A**	**07/10/18 09:52**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:43**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	139	0.493	0.985	
Beryllium	0.387	0.246	0.985	
Cadmium	1.09	0.493	0.985	
Chromium	19.1	0.246	0.985	
Cobalt	5.88	0.246	0.985	
Copper	31.2	0.493	0.985	
Lead	12.0	0.493	0.985	
Molybdenum	4.39	0.246	0.985	
Nickel	24.7	0.246	0.985	
Selenium	2.24	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	30.8	0.246	0.985	
Zinc	115	0.985	0.985	

B10-0.5	**18-07-0682-30-A**	**07/10/18 10:07**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:43**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Barium	85.6	0.521	1.04	
Beryllium	0.345	0.260	1.04	
Cadmium	0.946	0.521	1.04	
Chromium	14.5	0.260	1.04	
Cobalt	4.36	0.260	1.04	
Copper	22.3	0.521	1.04	
Lead	24.9	0.521	1.04	
Molybdenum	1.28	0.260	1.04	
Nickel	16.7	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	22.6	0.260	1.04	
Zinc	58.1	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 7 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-0.5DUP	**18-07-0682-31-A**	**07/10/18 10:07**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:44**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Barium	97.4	0.513	1.03	
Beryllium	0.352	0.256	1.03	
Cadmium	0.973	0.513	1.03	
Chromium	13.9	0.256	1.03	
Cobalt	5.22	0.256	1.03	
Copper	21.2	0.513	1.03	
Lead	17.7	0.513	1.03	
Molybdenum	1.63	0.256	1.03	
Nickel	18.7	0.256	1.03	
Selenium	ND	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	25.3	0.256	1.03	
Zinc	51.7	1.03	1.03	

B11-0.5	**18-07-0682-34-A**	**07/10/18 10:32**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:45**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Barium	129	0.510	1.02	
Beryllium	0.389	0.255	1.02	
Cadmium	0.817	0.510	1.02	
Chromium	28.8	0.255	1.02	
Cobalt	6.76	0.255	1.02	
Copper	48.2	0.510	1.02	
Lead	9.05	0.510	1.02	
Molybdenum	5.45	0.255	1.02	
Nickel	22.6	0.255	1.02	
Selenium	2.52	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	30.4	0.255	1.02	
Zinc	90.3	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 8 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-0.5	**18-07-0682-37-A**	**07/10/18 11:32**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:45**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	153	0.498	0.995	
Beryllium	0.402	0.249	0.995	
Cadmium	1.17	0.498	0.995	
Chromium	29.4	0.249	0.995	
Cobalt	11.0	0.249	0.995	
Copper	34.7	0.498	0.995	
Lead	5.44	0.498	0.995	
Molybdenum	5.71	0.249	0.995	
Nickel	29.9	0.249	0.995	
Selenium	1.28	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	34.1	0.249	0.995	
Zinc	71.8	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 9 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13-5	**18-07-0682-40-A**	**07/10/18 12:15**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:46**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	5.44	0.743	0.990	
Barium	93.0	0.495	0.990	
Beryllium	0.380	0.248	0.990	
Cadmium	0.984	0.495	0.990	
Chromium	22.4	0.248	0.990	
Cobalt	4.94	0.248	0.990	
Copper	32.7	0.495	0.990	
Lead	3.83	0.495	0.990	
Molybdenum	7.99	0.248	0.990	
Nickel	30.2	0.248	0.990	
Selenium	3.23	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	24.5	0.248	0.990	
Zinc	69.2	0.990	0.990	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 10 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13-10	**18-07-0682-41-A**	**07/10/18 12:25**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:48**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	4.08	0.714	0.952	
Barium	244	0.476	0.952	
Beryllium	0.543	0.238	0.952	
Cadmium	0.816	0.476	0.952	
Chromium	18.5	0.238	0.952	
Cobalt	7.28	0.238	0.952	
Copper	27.6	0.476	0.952	
Lead	4.20	0.476	0.952	
Molybdenum	1.96	0.238	0.952	
Nickel	24.3	0.238	0.952	
Selenium	0.977	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	39.3	0.238	0.952	
Zinc	38.1	0.952	0.952	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14-0.5	**18-07-0682-43-A**	**07/10/18 13:12**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:49**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Barium	165	0.476	0.952	
Beryllium	0.275	0.238	0.952	
Cadmium	0.575	0.476	0.952	
Chromium	24.3	0.238	0.952	
Cobalt	4.14	0.238	0.952	
Copper	50.2	0.476	0.952	
Lead	8.41	0.476	0.952	
Molybdenum	2.85	0.238	0.952	
Nickel	13.7	0.238	0.952	
Selenium	1.31	0.714	0.952	
Silver	0.246	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	22.4	0.238	0.952	
Zinc	56.1	0.952	0.952	

B15-0.5	**18-07-0682-46-A**	**07/10/18 13:22**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:50**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Barium	58.4	0.510	1.02	
Beryllium	0.321	0.255	1.02	
Cadmium	0.513	0.510	1.02	
Chromium	31.3	0.255	1.02	
Cobalt	7.29	0.255	1.02	
Copper	40.8	0.510	1.02	
Lead	2.38	0.510	1.02	
Molybdenum	13.1	0.255	1.02	
Nickel	16.1	0.255	1.02	
Selenium	1.51	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	32.3	0.255	1.02	
Zinc	86.1	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 12 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B16-0.5	**18-07-0682-49-A**	**07/10/18 13:33**	**Solid**	**ICP 8300**	**07/16/18**	**07/17/18 11:34**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.718	0.957	
Barium	98.0	0.478	0.957	
Beryllium	ND	0.239	0.957	
Cadmium	ND	0.478	0.957	
Chromium	10.4	0.239	0.957	
Cobalt	5.97	0.239	0.957	
Copper	12.6	0.478	0.957	
Lead	20.6	0.478	0.957	
Molybdenum	0.472	0.239	0.957	
Nickel	10.5	0.239	0.957	
Selenium	ND	0.718	0.957	
Silver	ND	0.239	0.957	
Thallium	ND	0.718	0.957	
Vanadium	23.5	0.239	0.957	
Zinc	40.6	0.957	0.957	

B17-0.5	**18-07-0682-52-A**	**07/10/18 13:47**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 11:34**	**180716L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.718	0.957	
Barium	98.0	0.478	0.957	
Beryllium	ND	0.239	0.957	
Cadmium	ND	0.478	0.957	
Chromium	10.4	0.239	0.957	
Cobalt	5.97	0.239	0.957	
Copper	12.6	0.478	0.957	
Lead	20.6	0.478	0.957	B
Molybdenum	0.472	0.239	0.957	
Nickel	10.5	0.239	0.957	
Selenium	ND	0.718	0.957	
Silver	ND	0.239	0.957	
Thallium	ND	0.718	0.957	
Vanadium	23.5	0.239	0.957	
Zinc	40.6	0.957	0.957	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 13 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B18-0.5	**18-07-0682-55-A**	**07/10/18 14:07**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 11:36**	**180716L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	137	0.493	0.985	
Beryllium	0.335	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	15.2	0.246	0.985	
Cobalt	10.8	0.246	0.985	
Copper	17.8	0.493	0.985	
Lead	8.81	0.493	0.985	B
Molybdenum	1.31	0.246	0.985	
Nickel	14.0	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	35.0	0.246	0.985	
Zinc	61.4	0.985	0.985	

B19-0.5	**18-07-0682-58-A**	**07/10/18 14:32**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 11:36**	**180716L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	0.758	0.754	1.01	
Barium	92.0	0.503	1.01	
Beryllium	ND	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	6.31	0.251	1.01	
Cobalt	5.44	0.251	1.01	
Copper	10.7	0.503	1.01	
Lead	23.2	0.503	1.01	B
Molybdenum	0.895	0.251	1.01	
Nickel	9.61	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	23.7	0.251	1.01	
Zinc	46.0	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 14 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B20-0.5	**18-07-0682-61-A**	**07/10/18 14:41**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 11:37**	**180716L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	1.15	0.785	1.05	
Barium	130	0.524	1.05	
Beryllium	0.348	0.262	1.05	
Cadmium	0.914	0.524	1.05	
Chromium	20.3	0.262	1.05	
Cobalt	8.39	0.262	1.05	
Copper	25.9	0.524	1.05	
Lead	25.6	0.524	1.05	B
Molybdenum	2.24	0.262	1.05	
Nickel	16.5	0.262	1.05	
Selenium	ND	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	31.9	0.262	1.05	
Zinc	111	1.05	1.05	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 15 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-26654**	**N/A**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:22**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	ND	0.732	0.976	
Barium	ND	0.488	0.976	
Beryllium	ND	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	ND	0.244	0.976	
Cobalt	ND	0.244	0.976	
Copper	ND	0.488	0.976	
Lead	ND	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	ND	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	ND	0.244	0.976	
Zinc	ND	0.976	0.976	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 16 of 16

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-26621**	**N/A**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 17:08**	**180716L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Barium	ND	0.508	1.02	
Beryllium	ND	0.254	1.02	
Cadmium	ND	0.508	1.02	
Chromium	ND	0.254	1.02	
Cobalt	ND	0.254	1.02	
Copper	ND	0.508	1.02	
Lead	0.682	0.508	1.02	
Molybdenum	ND	0.254	1.02	
Nickel	ND	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	ND	0.254	1.02	
Zinc	ND	1.02	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-07-0682-65-G**	**07/10/18 00:00**	**Aqueous**	**ICP 7300**	**07/19/18**	**07/19/18 11:20**	**180718LA2**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

Method Blank	**097-01-003-16973**	**N/A**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:42**	**180718LA2**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	0.0321	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3020A Total
		Method:	EPA 6020
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-07-0682-65-G**	**07/10/18 00:00**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 02:46**	**180718LA1A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**096-06-003-5945**	**N/A**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:03**	**180718LA1A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-0.5	**18-07-0682-1-A**	**07/10/18 07:25**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:23**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.19	1.00	1.00	

B2-0.5	**18-07-0682-4-A**	**07/10/18 07:42**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:27**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	16.5	1.00	1.00	

B3-0.5	**18-07-0682-7-A**	**07/10/18 07:58**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:43**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.88	1.00	1.00	

B4-0.5	**18-07-0682-10-A**	**07/10/18 08:23**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:48**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.62	1.00	1.00	

B5-0.5	**18-07-0682-13-A**	**07/10/18 08:38**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:52**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.96	1.00	1.00	

B5-0.5-DUP	**18-07-0682-14-A**	**07/10/18 08:38**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:56**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.35	1.00	1.00	

B6-0.5	**18-07-0682-17-A**	**07/10/18 08:52**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:00**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.34	1.00	1.00	

B7-0.5	**18-07-0682-20-A**	**07/10/18 09:23**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:04**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.89	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-0.5	**18-07-0682-23-A**	**07/10/18 09:37**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:08**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	11.5	1.00	1.00	

B9-0.5	**18-07-0682-26-A**	**07/10/18 09:52**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:12**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	23.9	1.00	1.00	

B9-0.5DUP	**18-07-0682-27-A**	**07/10/18 09:52**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:16**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	28.4	1.00	1.00	

B10-0.5	**18-07-0682-30-A**	**07/10/18 10:07**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:20**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	10.3	1.00	1.00	

B10-0.5DUP	**18-07-0682-31-A**	**07/10/18 10:07**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:36**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	11.1	1.00	1.00	

B11-0.5	**18-07-0682-34-A**	**07/10/18 10:32**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:41**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	21.1	1.00	1.00	

B12-0.5	**18-07-0682-37-A**	**07/10/18 11:32**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:45**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.84	1.00	1.00	

B14-0.5	**18-07-0682-43-A**	**07/10/18 13:12**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:49**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	1.49	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15-0.5	**18-07-0682-46-A**	**07/10/18 13:22**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:53**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	10.1	1.00	1.00	

B16-0.5	**18-07-0682-49-A**	**07/10/18 13:33**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 23:57**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.05	1.00	1.00	

B17-0.5	**18-07-0682-52-A**	**07/10/18 13:47**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:03**	**180716L05**

Parameter	Result	RL	DF	Qualifiers
Arsenic	10.1	1.00	1.00	

B18-0.5	**18-07-0682-55-A**	**07/10/18 14:07**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/19/18 00:01**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.32	1.00	1.00	

B19-0.5	**18-07-0682-58-A**	**07/10/18 14:32**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/19/18 00:05**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	10.1	1.00	1.00	

B20-0.5	**18-07-0682-61-A**	**07/10/18 14:41**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/19/18 00:09**	**180716L05**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.24	1.00	1.00	

Method Blank	**099-15-621-1691**	**N/A**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 20:33**	**180716L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

Method Blank	**099-15-621-1690**	**N/A**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 20:33**	**180716L05**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-07-0682-65-G**	**07/10/18 00:00**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 16:16**	**180719LA2**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

Method Blank	**099-04-008-8632**	**N/A**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 15:49**	**180719LA2**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-0.5	**18-07-0682-1-A**	**07/10/18 07:25**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:19**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-0.5	**18-07-0682-4-A**	**07/10/18 07:42**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:26**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0826	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-0.5	**18-07-0682-7-A**	**07/10/18 07:58**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:33**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-0.5	**18-07-0682-10-A**	**07/10/18 08:23**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:35**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-0.5	**18-07-0682-13-A**	**07/10/18 08:38**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:37**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.166	0.0877	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-0.5-DUP	**18-07-0682-14-A**	**07/10/18 08:38**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:40**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-0.5	**18-07-0682-17-A**	**07/10/18 08:52**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:42**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-0.5	**18-07-0682-20-A**	**07/10/18 09:23**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:44**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-0.5	**18-07-0682-23-A**	**07/10/18 09:37**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:46**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B9-0.5	**18-07-0682-26-A**	**07/10/18 09:52**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:49**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.187	0.0847	1.00	

B9-0.5DUP	**18-07-0682-27-A**	**07/10/18 09:52**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:51**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B10-0.5	**18-07-0682-30-A**	**07/10/18 10:07**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:53**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B10-0.5DUP	**18-07-0682-31-A**	**07/10/18 10:07**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:00**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B11-0.5	**18-07-0682-34-A**	**07/10/18 10:32**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:02**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B12-0.5	**18-07-0682-37-A**	**07/10/18 11:32**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:05**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B13-5	**18-07-0682-40-A**	**07/10/18 12:15**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:07**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13-10	**18-07-0682-41-A**	**07/10/18 12:25**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:09**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B14-0.5	**18-07-0682-43-A**	**07/10/18 13:12**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:12**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B15-0.5	**18-07-0682-46-A**	**07/10/18 13:22**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:14**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000862	1.00	

B16-0.5	**18-07-0682-49-A**	**07/10/18 13:33**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:16**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.115	0.0847	1.00	

B17-0.5	**18-07-0682-52-A**	**07/10/18 13:47**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:28**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B18-0.5	**18-07-0682-55-A**	**07/10/18 14:07**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:34**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B19-0.5	**18-07-0682-58-A**	**07/10/18 14:32**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:37**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B20-0.5	**18-07-0682-61-A**	**07/10/18 14:41**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:39**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.164	0.0794	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-3982**	**N/A**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:01**	**180718L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-3981**	**N/A**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:18**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 1 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B1-0.5	**18-07-0682-1-A**	**07/10/18 07:25**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 12:05**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 2 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-0.5	**18-07-0682-4-A**	**07/10/18 07:42**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 12:19**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDT	27	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	98	25-145	

B2-0.5	**18-07-0682-4-A**	**07/10/18 07:42**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 06:48**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	41	24	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	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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EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 3 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3-0.5	**18-07-0682-7-A**	**07/10/18 07:58**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 12:34**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	24-168	
2,4,5,6-Tetrachloro-m-Xylene	114	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 4 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B4-0.5	**18-07-0682-10-A**	**07/10/18 08:23**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 12:48**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	160	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	28	5.0	1.00	
4,4'-DDT	28	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	120	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 5 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-0.5	**18-07-0682-13-A**	**07/10/18 08:38**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 13:02**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	76	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	7.9	4.9	1.00	
4,4'-DDT	5.3	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	104	25-145	

B5-0.5	**18-07-0682-13-A**	**07/10/18 08:38**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 06:33**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Dieldrin	74	24	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	24-168	
2,4,5,6-Tetrachloro-m-Xylene	111	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 6 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-0.5-DUP	**18-07-0682-14-A**	**07/10/18 08:38**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 18:44**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	61	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	7.5	5.0	1.00	
4,4'-DDT	8.1	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	104	24-168	
2,4,5,6-Tetrachloro-m-Xylene	99	25-145	

B5-0.5-DUP	**18-07-0682-14-A**	**07/10/18 08:38**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 11:42**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Dieldrin	67	25	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 7 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-0.5	**18-07-0682-17-A**	**07/10/18 08:52**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 18:58**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	65	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 8 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B7-0.5	**18-07-0682-20-A**	**07/10/18 09:23**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 19:13**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 9 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B8-0.5	**18-07-0682-23-A**	**07/10/18 09:37**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 19:27**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	104	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 10 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-0.5	**18-07-0682-26-A**	**07/10/18 09:52**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 07:02**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	9.0	5.0	1.00	
4,4'-DDT	10	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	119	24-168	
2,4,5,6-Tetrachloro-m-Xylene	109	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 11 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-0.5DUP	**18-07-0682-27-A**	**07/10/18 09:52**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 07:16**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	7.4	5.0	1.00	
4,4'-DDT	7.9	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	121	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 12 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-0.5	**18-07-0682-30-A**	**07/10/18 10:07**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 07:31**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 13 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B10-0.5DUP	**18-07-0682-31-A**	**07/10/18 10:07**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 07:45**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 14 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-0.5	**18-07-0682-34-A**	**07/10/18 10:32**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 07:59**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 15 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B12-0.5	**18-07-0682-37-A**	**07/10/18 11:32**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 08:13**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 16 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B14-0.5	**18-07-0682-43-A**	**07/10/18 13:12**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 08:27**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	110	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 17 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B15-0.5	**18-07-0682-46-A**	**07/10/18 13:22**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 08:42**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	104	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 18 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B16-0.5	**18-07-0682-49-A**	**07/10/18 13:33**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 08:56**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	74	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDT	32	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	15	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

B16-0.5	**18-07-0682-49-A**	**07/10/18 13:33**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 11:56**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	500	100	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	114	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 19 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B17-0.5	**18-07-0682-52-A**	**07/10/18 13:47**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 09:10**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 20 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B18-0.5	**18-07-0682-55-A**	**07/10/18 14:07**	**Solid**	**GC 44**	**07/13/18**	**07/19/18 09:24**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B19-0.5	**18-07-0682-58-A**	**07/10/18 14:32**	**Solid**	**GC 44**	**07/13/18**	**07/16/18 13:49**	**180713L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 22 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B20-0.5	**18-07-0682-61-A**	**07/10/18 14:41**	**Solid**	**GC 44**	**07/13/18**	**07/16/18 14:03**	**180713L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	360	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	7.8	5.0	1.00	
4,4'-DDT	12	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	129	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 23 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2981**	**N/A**	**Solid**	**GC 44**	**07/13/18**	**07/16/18 12:11**	**180713L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	102	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 24 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2983**	**N/A**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 11:08**	**180713L15**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: Taft Charter High School			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-07-0682-65-D**	**07/10/18 00:00**	**Aqueous**	**GC 44**	**07/12/18**	**07/17/18 06:47**	**180712L01B**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.094	1.00	
Gamma-BHC	ND	0.094	1.00	
Beta-BHC	ND	0.094	1.00	
Heptachlor	ND	0.094	1.00	
Delta-BHC	ND	0.094	1.00	
Aldrin	ND	0.094	1.00	
Heptachlor Epoxide	ND	0.094	1.00	
Endosulfan I	ND	0.094	1.00	
Dieldrin	ND	0.094	1.00	
4,4'-DDE	ND	0.094	1.00	
Endrin	ND	0.094	1.00	
Endrin Aldehyde	ND	0.094	1.00	
4,4'-DDD	ND	0.094	1.00	
Endosulfan II	ND	0.094	1.00	
4,4'-DDT	ND	0.094	1.00	
Endosulfan Sulfate	ND	0.094	1.00	
Methoxychlor	ND	0.094	1.00	
Chlordane	ND	0.94	1.00	
Toxaphene	ND	1.9	1.00	
Endrin Ketone	ND	0.094	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	50-135	
2,4,5,6-Tetrachloro-m-Xylene	108	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: Taft Charter High School			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	**099-12-529-1037**	**N/A**	**Aqueous**	**GC 44**	**07/12/18**	**07/17/18 05:22**	**180712L01B**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.10	1.00	
Gamma-BHC	ND	0.10	1.00	
Beta-BHC	ND	0.10	1.00	
Heptachlor	ND	0.10	1.00	
Delta-BHC	ND	0.10	1.00	
Aldrin	ND	0.10	1.00	
Heptachlor Epoxide	ND	0.10	1.00	
Endosulfan I	ND	0.10	1.00	
Dieldrin	ND	0.10	1.00	
4,4'-DDE	ND	0.10	1.00	
Endrin	ND	0.10	1.00	
Endrin Aldehyde	ND	0.10	1.00	
4,4'-DDD	ND	0.10	1.00	
Endosulfan II	ND	0.10	1.00	
4,4'-DDT	ND	0.10	1.00	
Endosulfan Sulfate	ND	0.10	1.00	
Methoxychlor	ND	0.10	1.00	
Chlordane	ND	1.0	1.00	
Toxaphene	ND	2.0	1.00	
Endrin Ketone	ND	0.10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	108	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: Taft Charter High School			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-0.5	**18-07-0682-13-A**	**07/10/18 08:38**	**Solid**	**GC 58**	**07/18/18**	**07/19/18 13:10**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	104	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

B9-0.5	**18-07-0682-26-A**	**07/10/18 09:52**	**Solid**	**GC 58**	**07/18/18**	**07/19/18 13:28**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: Taft Charter High School			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	**099-12-535-4760**	**N/A**	**Solid**	**GC 58**	**07/18/18**	**07/19/18 10:10**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8082
		Units:	ug/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-07-0682-65-D**	**07/10/18 00:00**	**Aqueous**	**GC 31**	**07/12/18**	**07/13/18 22:41**	**180712L01B**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	0.94	1.00	
Aroclor-1221	ND	0.94	1.00	
Aroclor-1232	ND	0.94	1.00	
Aroclor-1242	ND	0.94	1.00	
Aroclor-1248	ND	0.94	1.00	
Aroclor-1254	ND	0.94	1.00	
Aroclor-1260	ND	0.94	1.00	
Aroclor-1262	ND	0.94	1.00	
Aroclor-1268	ND	0.94	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	50-135	
2,4,5,6-Tetrachloro-m-Xylene	92	50-135	

Method Blank	**099-12-533-1413**	**N/A**	**Aqueous**	**GC 31**	**07/12/18**	**07/13/18 20:09**	**180712L01B**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	1.0	1.00	
Aroclor-1221	ND	1.0	1.00	
Aroclor-1232	ND	1.0	1.00	
Aroclor-1242	ND	1.0	1.00	
Aroclor-1248	ND	1.0	1.00	
Aroclor-1254	ND	1.0	1.00	
Aroclor-1260	ND	1.0	1.00	
Aroclor-1262	ND	1.0	1.00	
Aroclor-1268	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	50-135	
2,4,5,6-Tetrachloro-m-Xylene	85	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-1	**18-07-0682-64-A**	**07/10/18 00:00**	**Aqueous**	**GC/MS RR**	**07/13/18**	**07/13/18 19:43**	**180713L034**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
1,1-Dichloropropene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Butanone	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
4-Chlorotoluene	ND	1.0	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
Carbon Disulfide	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.	Date Received:	07/11/18
5261 West Imperial Highway	Work Order:	18-07-0682
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Taft Charter High School		Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
Dibromochloromethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Ethylbenzene	ND	1.0	1.00	
Isopropylbenzene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
Naphthalene	ND	10	1.00	
Styrene	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
n-Butylbenzene	ND	1.0	1.00	
n-Propylbenzene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
tert-Butylbenzene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.	Date Received:	07/11/18
5261 West Imperial Highway	Work Order:	18-07-0682
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Taft Charter High School		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	77-120	
Dibromofluoromethane	108	80-128	
1,2-Dichloroethane-d4	114	80-129	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-1	**18-07-0682-65-A**	**07/10/18 00:00**	**Aqueous**	**GC/MS RR**	**07/13/18**	**07/13/18 20:14**	**180713L034**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
1,1-Dichloropropene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Butanone	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
4-Chlorotoluene	ND	1.0	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
Carbon Disulfide	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
Dibromochloromethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Ethylbenzene	ND	1.0	1.00	
Isopropylbenzene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
Naphthalene	ND	10	1.00	
Styrene	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
n-Butylbenzene	ND	1.0	1.00	
n-Propylbenzene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
tert-Butylbenzene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.	Date Received:	07/11/18
5261 West Imperial Highway	Work Order:	18-07-0682
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Taft Charter High School		Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	77-120	
Dibromofluoromethane	107	80-128	
1,2-Dichloroethane-d4	114	80-129	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-26430**	**N/A**	**Aqueous**	**GC/MS RR**	**07/13/18**	**07/13/18 18:37**	**180713L034**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
1,1-Dichloropropene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Butanone	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
4-Chlorotoluene	ND	1.0	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
Carbon Disulfide	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
Dibromochloromethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Ethylbenzene	ND	1.0	1.00	
Isopropylbenzene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
Naphthalene	ND	10	1.00	
Styrene	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
n-Butylbenzene	ND	1.0	1.00	
n-Propylbenzene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
tert-Butylbenzene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.	Date Received:	07/11/18
5261 West Imperial Highway	Work Order:	18-07-0682
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Taft Charter High School		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	77-120	
Dibromofluoromethane	105	80-128	
1,2-Dichloroethane-d4	112	80-129	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B6-0.5	**18-07-0682-17-A**	**07/10/18 08:52**	**Solid**	**GC/MS BB**	**07/12/18**	**07/13/18 07:59**	**180712L055**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.1	1.00	
1,1,1-Trichloroethane	ND	5.1	1.00	
1,1,2,2-Tetrachloroethane	ND	5.1	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	51	1.00	
1,1,2-Trichloroethane	ND	5.1	1.00	
1,1-Dichloroethane	ND	5.1	1.00	
1,1-Dichloroethene	ND	5.1	1.00	
1,1-Dichloropropene	ND	5.1	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.1	1.00	
1,2,4-Trichlorobenzene	ND	5.1	1.00	
1,2,4-Trimethylbenzene	ND	5.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	26	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichlorobenzene	ND	5.1	1.00	
1,2-Dichloroethane	ND	2.6	1.00	
1,2-Dichloropropane	ND	5.1	1.00	
1,3,5-Trimethylbenzene	ND	5.1	1.00	
1,3-Dichlorobenzene	ND	5.1	1.00	
1,3-Dichloropropane	ND	5.1	1.00	
1,4-Dichlorobenzene	ND	5.1	1.00	
2,2-Dichloropropane	ND	5.1	1.00	
2-Butanone	ND	51	1.00	
2-Chlorotoluene	ND	5.1	1.00	
2-Hexanone	ND	51	1.00	
4-Chlorotoluene	ND	5.1	1.00	
4-Methyl-2-Pentanone	ND	51	1.00	
Acetone	ND	130	1.00	
Benzene	ND	5.1	1.00	
Bromobenzene	ND	5.1	1.00	
Bromochloromethane	ND	5.1	1.00	
Bromodichloromethane	ND	5.1	1.00	
Bromoform	ND	5.1	1.00	
Bromomethane	ND	26	1.00	
Carbon Disulfide	ND	51	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.1	1.00	
Chlorobenzene	ND	5.1	1.00	
Chloroethane	ND	5.1	1.00	
Chloroform	ND	5.1	1.00	
Chloromethane	ND	26	1.00	
Dibromochloromethane	ND	5.1	1.00	
Dibromomethane	ND	5.1	1.00	
Dichlorodifluoromethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Isopropylbenzene	ND	5.1	1.00	
Methylene Chloride	ND	51	1.00	
Naphthalene	ND	51	1.00	
Styrene	ND	5.1	1.00	
Tetrachloroethene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
t-1,2-Dichloroethene	ND	5.1	1.00	
Trichloroethene	ND	5.1	1.00	
Trichlorofluoromethane	ND	51	1.00	
Vinyl Acetate	ND	51	1.00	
Vinyl Chloride	ND	5.1	1.00	
c-1,3-Dichloropropene	ND	5.1	1.00	
c-1,2-Dichloroethene	ND	5.1	1.00	
n-Butylbenzene	ND	5.1	1.00	
n-Propylbenzene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
p-Isopropyltoluene	ND	5.1	1.00	
sec-Butylbenzene	ND	5.1	1.00	
t-1,3-Dichloropropene	ND	5.1	1.00	
tert-Butylbenzene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	260	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	102	79-133	
1,2-Dichloroethane-d4	108	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B18-3	**18-07-0682-57-A**	**07/10/18 14:15**	**Solid**	**GC/MS BB**	**07/12/18**	**07/13/18 08:27**	**180712L055**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
1,1-Dichloropropene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	25	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,2-Dichloroethane	ND	2.5	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	
2-Butanone	ND	50	1.00	
2-Chlorotoluene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
4-Chlorotoluene	ND	5.0	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Acetone	ND	130	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
Carbon Disulfide	ND	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
Dibromochloromethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Isopropylbenzene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
Naphthalene	ND	50	1.00	
Styrene	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
Trichloroethene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
n-Butylbenzene	ND	5.0	1.00	
n-Propylbenzene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	100	79-133	
1,2-Dichloroethane-d4	106	71-155	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-14324**	**N/A**	**Solid**	**GC/MS BB**	**07/12/18**	**07/13/18 05:06**	**180712L055**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
1,1-Dichloropropene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	25	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,2-Dichloroethane	ND	2.5	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	
2-Butanone	ND	50	1.00	
2-Chlorotoluene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
4-Chlorotoluene	ND	5.0	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
Carbon Disulfide	ND	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
Dibromochloromethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Isopropylbenzene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
Naphthalene	ND	50	1.00	
Styrene	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
Trichloroethene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
n-Butylbenzene	ND	5.0	1.00	
n-Propylbenzene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	102	79-133	
1,2-Dichloroethane-d4	109	71-155	
Toluene-d8	101	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13-5	**18-07-0682-40-D**	**07/10/18 12:15**	**Solid**	**GC/MS QQ**	**07/10/18**	**07/12/18 18:03**	**180712L040**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.88	1.00	
1,1,1-Trichloroethane	ND	0.88	1.00	
1,1,2,2-Tetrachloroethane	ND	1.8	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.8	1.00	
1,1,2-Trichloroethane	ND	0.88	1.00	
1,1-Dichloroethane	ND	0.88	1.00	
1,1-Dichloroethene	ND	0.88	1.00	
1,1-Dichloropropene	ND	1.8	1.00	
1,2,3-Trichlorobenzene	ND	1.8	1.00	
1,2,3-Trichloropropane	ND	1.8	1.00	
1,2,4-Trichlorobenzene	ND	1.8	1.00	
1,2,4-Trimethylbenzene	ND	1.8	1.00	
1,2-Dibromo-3-Chloropropane	ND	8.8	1.00	
1,2-Dibromoethane	ND	0.88	1.00	
1,2-Dichlorobenzene	ND	0.88	1.00	
1,2-Dichloroethane	ND	0.88	1.00	
1,2-Dichloropropane	ND	0.88	1.00	
1,3,5-Trimethylbenzene	ND	1.8	1.00	
1,3-Dichlorobenzene	ND	0.88	1.00	
1,3-Dichloropropane	ND	0.88	1.00	
1,4-Dichlorobenzene	ND	0.88	1.00	
2,2-Dichloropropane	ND	4.4	1.00	
2-Butanone	ND	18	1.00	
2-Chlorotoluene	ND	0.88	1.00	
2-Hexanone	ND	18	1.00	
4-Chlorotoluene	ND	0.88	1.00	
4-Methyl-2-Pentanone	ND	18	1.00	
Acetone	ND	44	1.00	
Benzene	ND	0.88	1.00	
Bromobenzene	ND	0.88	1.00	
Bromochloromethane	ND	4.4	1.00	
Bromodichloromethane	ND	0.88	1.00	
Bromoform	ND	4.4	1.00	
Bromomethane	ND	18	1.00	
Carbon Disulfide	ND	8.8	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.88	1.00	
Chlorobenzene	ND	0.88	1.00	
Chloroethane	ND	1.8	1.00	
Chloroform	ND	0.88	1.00	
Chloromethane	ND	18	1.00	
Dibromochloromethane	ND	1.8	1.00	
Dibromomethane	ND	1.8	1.00	
Dichlorodifluoromethane	ND	1.8	1.00	
Ethylbenzene	ND	0.88	1.00	
Isopropylbenzene	ND	0.88	1.00	
Methylene Chloride	ND	8.8	1.00	
Naphthalene	ND	8.8	1.00	
Styrene	ND	0.88	1.00	
Tetrachloroethene	ND	0.88	1.00	
Toluene	ND	0.88	1.00	
t-1,2-Dichloroethene	ND	0.88	1.00	
Trichloroethene	ND	1.8	1.00	
Trichlorofluoromethane	ND	8.8	1.00	
Vinyl Acetate	ND	8.8	1.00	
Vinyl Chloride	ND	0.88	1.00	
c-1,3-Dichloropropene	ND	0.88	1.00	
c-1,2-Dichloroethene	ND	0.88	1.00	
n-Butylbenzene	ND	0.88	1.00	
n-Propylbenzene	ND	1.8	1.00	
o-Xylene	ND	0.88	1.00	
p-Isopropyltoluene	ND	0.88	1.00	
sec-Butylbenzene	ND	0.88	1.00	
t-1,3-Dichloropropene	ND	4.4	1.00	
tert-Butylbenzene	ND	0.88	1.00	
p/m-Xylene	ND	1.8	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.8	1.00	
1,4-Dioxane	ND	88	1.00	
Tert-Butyl Alcohol (TBA)	ND	18	1.00	
Diisopropyl Ether (DIPE)	ND	0.88	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.88	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.88	1.00	
Ethanol	ND	440	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	101	79-133	
1,2-Dichloroethane-d4	108	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B13-10	**18-07-0682-41-D**	**07/10/18 12:25**	**Solid**	**GC/MS QQ**	**07/10/18**	**07/12/18 18:31**	**180712L040**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.78	1.00	
1,1,1-Trichloroethane	ND	0.78	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	1.00	
1,1,2-Trichloroethane	ND	0.78	1.00	
1,1-Dichloroethane	ND	0.78	1.00	
1,1-Dichloroethene	ND	0.78	1.00	
1,1-Dichloropropene	ND	1.6	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	7.8	1.00	
1,2-Dibromoethane	ND	0.78	1.00	
1,2-Dichlorobenzene	ND	0.78	1.00	
1,2-Dichloroethane	ND	0.78	1.00	
1,2-Dichloropropane	ND	0.78	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
1,3-Dichlorobenzene	ND	0.78	1.00	
1,3-Dichloropropane	ND	0.78	1.00	
1,4-Dichlorobenzene	ND	0.78	1.00	
2,2-Dichloropropane	ND	3.9	1.00	
2-Butanone	ND	16	1.00	
2-Chlorotoluene	ND	0.78	1.00	
2-Hexanone	ND	16	1.00	
4-Chlorotoluene	ND	0.78	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Acetone	ND	39	1.00	
Benzene	ND	0.78	1.00	
Bromobenzene	ND	0.78	1.00	
Bromochloromethane	ND	3.9	1.00	
Bromodichloromethane	ND	0.78	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	16	1.00	
Carbon Disulfide	ND	7.8	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.78	1.00	
Chlorobenzene	ND	0.78	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.78	1.00	
Chloromethane	ND	16	1.00	
Dibromochloromethane	ND	1.6	1.00	
Dibromomethane	ND	1.6	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
Ethylbenzene	ND	0.78	1.00	
Isopropylbenzene	ND	0.78	1.00	
Methylene Chloride	ND	7.8	1.00	
Naphthalene	ND	7.8	1.00	
Styrene	ND	0.78	1.00	
Tetrachloroethene	ND	0.78	1.00	
Toluene	ND	0.78	1.00	
t-1,2-Dichloroethene	ND	0.78	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.8	1.00	
Vinyl Acetate	ND	7.8	1.00	
Vinyl Chloride	ND	0.78	1.00	
c-1,3-Dichloropropene	ND	0.78	1.00	
c-1,2-Dichloroethene	ND	0.78	1.00	
n-Butylbenzene	ND	0.78	1.00	
n-Propylbenzene	ND	1.6	1.00	
o-Xylene	ND	0.78	1.00	
p-Isopropyltoluene	ND	0.78	1.00	
sec-Butylbenzene	ND	0.78	1.00	
t-1,3-Dichloropropene	ND	3.9	1.00	
tert-Butylbenzene	ND	0.78	1.00	
p/m-Xylene	ND	1.6	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
1,4-Dioxane	ND	78	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.78	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.78	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.78	1.00	
Ethanol	ND	390	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	97	79-133	
1,2-Dichloroethane-d4	107	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30185**	**N/A**	**Solid**	**GC/MS QQ**	**07/12/18**	**07/12/18 11:31**	**180712L040**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
1,1-Dichloropropene	ND	2.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	
2-Butanone	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
4-Chlorotoluene	ND	1.0	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
Carbon Disulfide	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
Dibromochloromethane	ND	2.0	1.00	
Dibromomethane	ND	2.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
Isopropylbenzene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
Naphthalene	ND	10	1.00	
Styrene	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
n-Butylbenzene	ND	1.0	1.00	
n-Propylbenzene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: Taft Charter High School			Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	102	79-133	
1,2-Dichloroethane-d4	105	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B17-0.5	**Sample**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 11:34**	**180716S05**
B17-0.5	**Matrix Spike**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 11:34**	**180716S05**
B17-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 11:35**	**180716S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	7.169	29	7.617	30	50-115	6	0-20	3
Barium	98.01	25.00	128.8	123	119.6	86	75-125	7	0-20	
Beryllium	ND	25.00	27.56	110	24.40	98	75-125	12	0-20	
Cadmium	ND	25.00	25.59	102	24.22	97	75-125	5	0-20	
Chromium	10.39	25.00	39.74	117	34.21	95	75-125	15	0-20	
Cobalt	5.970	25.00	31.99	104	29.94	96	75-125	7	0-20	
Copper	12.63	25.00	39.26	107	36.12	94	75-125	8	0-20	
Lead	20.65	25.00	45.59	100	43.73	92	75-125	4	0-20	
Molybdenum	0.4720	25.00	25.25	99	23.91	94	75-125	5	0-20	
Nickel	10.50	25.00	38.87	113	33.13	91	75-125	16	0-20	
Selenium	ND	25.00	24.12	96	18.35	73	75-125	27	0-20	3,4
Silver	ND	12.50	13.11	105	12.00	96	75-125	9	0-20	
Thallium	ND	25.00	14.05	56	15.45	62	75-125	9	0-20	3
Vanadium	23.50	25.00	49.08	102	46.30	91	75-125	6	0-20	
Zinc	40.62	25.00	66.98	105	65.96	101	75-125	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B1-0.5	**Sample**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:34**	**180716S04**
B1-0.5	**Matrix Spike**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:31**	**180716S04**
B1-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:32**	**180716S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	4.081	16	5.397	22	50-115	28	0-20	3,4
Arsenic	7.360	25.00	35.69	113	39.29	128	75-125	10	0-20	3
Barium	128.6	25.00	203.1	4X	221.3	4X	75-125	4X	0-20	Q
Beryllium	0.5035	25.00	23.87	93	26.38	103	75-125	10	0-20	
Cadmium	1.233	25.00	27.20	104	29.85	114	75-125	9	0-20	
Chromium	20.89	25.00	46.02	101	50.46	118	75-125	9	0-20	
Cobalt	8.534	25.00	35.28	107	38.91	122	75-125	10	0-20	
Copper	30.24	25.00	63.78	134	69.92	159	75-125	9	0-20	3
Lead	13.50	25.00	50.25	147	55.08	166	75-125	9	0-20	3
Molybdenum	2.048	25.00	21.15	76	23.45	86	75-125	10	0-20	
Nickel	29.95	25.00	55.96	104	61.43	126	75-125	9	0-20	3
Selenium	ND	25.00	22.62	90	26.27	105	75-125	15	0-20	
Silver	ND	12.50	11.97	96	13.14	105	75-125	9	0-20	
Thallium	ND	25.00	21.36	85	22.98	92	75-125	7	0-20	
Vanadium	31.88	25.00	57.44	102	62.88	124	75-125	9	0-20	
Zinc	68.43	25.00	105.8	150	116.0	190	75-125	9	0-20	3

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Taft Charter High School			Page 3 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0849-1	**Sample**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:47**	**180718SA2**
18-07-0849-1	**Matrix Spike**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:47**	**180718SA2**
18-07-0849-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:50**	**180718SA2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	0.01690	0.5000	0.4762	92	0.4752	92	72-132	0	0-10	
Barium	0.06124	0.5000	0.5863	105	0.5764	103	87-123	2	0-6	
Beryllium	ND	0.5000	0.5243	105	0.5056	101	89-119	4	0-8	
Cadmium	ND	0.5000	0.5190	104	0.5143	103	82-124	1	0-7	
Chromium	ND	0.5000	0.5312	106	0.5066	101	86-122	5	0-8	
Cobalt	ND	0.5000	0.5353	107	0.5300	106	83-125	1	0-7	
Copper	0.2754	0.5000	0.8117	107	0.7876	102	78-126	3	0-7	
Lead	0.03554	0.5000	0.5684	107	0.5700	107	84-120	0	0-7	
Molybdenum	0.01844	0.5000	0.5141	99	0.5165	100	78-126	0	0-7	
Nickel	0.02768	0.5000	0.5403	103	0.5372	102	84-120	1	0-7	
Selenium	ND	0.5000	0.4703	94	0.4390	88	79-127	7	0-9	
Silver	ND	0.2500	0.1016	41	0.07946	32	86-128	24	0-7	3,4
Thallium	ND	0.5000	0.4888	98	0.5130	103	79-121	5	0-8	
Vanadium	ND	0.5000	0.5327	107	0.5120	102	88-118	4	0-7	
Zinc	0.4622	0.5000	1.017	111	0.9839	104	89-131	3	0-8	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0647-3	**Sample**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:27**	**180718SA1**
18-07-0647-3	**Matrix Spike**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:11**	**180718SA1**
18-07-0647-3	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:15**	**180718SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.09641	96	0.1017	102	73-127	5	0-11	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
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Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B1-0.5	**Sample**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:23**	**180716S04**
B1-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:07**	**180716S04**
B1-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:11**	**180716S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	8.192	25.00	42.62	138	39.72	126	72-132	7	0-13	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

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Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B17-0.5	**Sample**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 22:03**	**180716S05**
B17-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 20:49**	**180716S05**
B17-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 21:50**	**180716S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	10.13	25.00	36.65	106	39.25	116	72-132	7	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0894-2	**Sample**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 15:53**	**180719SA2**
18-07-0894-2	**Matrix Spike**	**Aqueous**	**Mercury 07**	**07/18/18**	**07/20/18 14:57**	**180719SA2**
18-07-0894-2	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 15:58**	**180719SA2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.008659	87	0.008679	87	55-133	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B1-0.5	**Sample**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:19**	**180718S02**
B1-0.5	**Matrix Spike**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:21**	**180718S02**
B1-0.5	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:24**	**180718S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8268	99	0.8200	98	71-137	1	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B17-0.5	**Sample**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:28**	**180718S03**
B17-0.5	**Matrix Spike**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:30**	**180718S03**
B17-0.5	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:32**	**180718S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7471	89	0.7661	92	71-137	3	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

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5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0445-8	**Sample**	**Solid**	**GC 44**	**07/13/18**	**07/16/18 11:57**	**180713S05**
18-07-0445-8	**Matrix Spike**	**Solid**	**GC 44**	**07/13/18**	**07/16/18 11:28**	**180713S05**
18-07-0445-8	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**07/13/18**	**07/16/18 11:42**	**180713S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	27.02	108	25.29	101	50-135	7	0-25	
Alpha-BHC	ND	25.00	26.52	106	25.36	101	50-135	4	0-25	
Beta-BHC	ND	25.00	25.00	100	23.96	96	50-135	4	0-25	
4,4'-DDD	ND	25.00	29.02	116	26.89	108	50-135	8	0-25	
4,4'-DDE	ND	25.00	28.12	112	26.26	105	50-135	7	0-25	
4,4'-DDT	ND	25.00	29.32	117	26.86	107	50-135	9	0-25	
Delta-BHC	ND	25.00	27.60	110	26.16	105	50-135	5	0-25	
Dieldrin	ND	25.00	28.08	112	26.13	105	50-135	7	0-25	
Endosulfan I	ND	25.00	28.64	115	26.50	106	50-135	8	0-25	
Endosulfan II	ND	25.00	28.59	114	26.42	106	50-135	8	0-25	
Endosulfan Sulfate	ND	25.00	29.20	117	27.28	109	50-135	7	0-25	
Endrin	ND	25.00	27.80	111	26.59	106	50-135	4	0-25	
Endrin Aldehyde	ND	25.00	27.28	109	25.02	100	50-135	9	0-25	
Gamma-BHC	ND	25.00	26.32	105	25.02	100	50-135	5	0-25	
Heptachlor	ND	25.00	27.40	110	25.94	104	50-135	5	0-25	
Heptachlor Epoxide	ND	25.00	26.84	107	25.04	100	50-135	7	0-25	
Methoxychlor	ND	25.00	29.30	117	27.50	110	50-135	6	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

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5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 11 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B1-0.5	**Sample**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 12:05**	**180713S15**
B1-0.5	**Matrix Spike**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 11:37**	**180713S15**
B1-0.5	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 11:51**	**180713S15**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	24.14	97	23.30	93	50-135	4	0-25	
Alpha-BHC	ND	25.00	24.50	98	24.24	97	50-135	1	0-25	
Beta-BHC	ND	25.00	25.16	101	24.85	99	50-135	1	0-25	
4,4'-DDD	ND	25.00	27.00	108	26.32	105	50-135	3	0-25	
4,4'-DDE	ND	25.00	27.21	109	26.37	105	50-135	3	0-25	
4,4'-DDT	ND	25.00	27.65	111	25.86	103	50-135	7	0-25	
Delta-BHC	ND	25.00	26.22	105	26.14	105	50-135	0	0-25	
Dieldrin	ND	25.00	27.26	109	26.42	106	50-135	3	0-25	
Endosulfan I	ND	25.00	27.06	108	26.46	106	50-135	2	0-25	
Endosulfan II	ND	25.00	27.51	110	26.92	108	50-135	2	0-25	
Endosulfan Sulfate	ND	25.00	26.54	106	25.80	103	50-135	3	0-25	
Endrin	ND	25.00	23.79	95	24.64	99	50-135	4	0-25	
Endrin Aldehyde	ND	25.00	11.16	45	8.610	34	50-135	26	0-25	3,4
Gamma-BHC	ND	25.00	24.54	98	24.38	98	50-135	1	0-25	
Heptachlor	ND	25.00	23.90	96	23.17	93	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	24.34	97	23.42	94	50-135	4	0-25	
Methoxychlor	ND	25.00	30.50	122	29.78	119	50-135	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1084-1	**Sample**	**Solid**	**GC 58**	**07/18/18**	**07/19/18 11:22**	**180718S06**
18-07-1084-1	**Matrix Spike**	**Solid**	**GC 58**	**07/18/18**	**07/19/18 10:46**	**180718S06**
18-07-1084-1	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**07/18/18**	**07/19/18 11:04**	**180718S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	227.0	227	239.5	240	50-135	5	0-20	3
Aroclor-1260	ND	100.0	168.0	168	169.0	169	50-135	1	0-20	3

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Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0656-2	**Sample**	**Aqueous**	**GC/MS RR**	**07/13/18**	**07/13/18 23:50**	**180713S023**
18-07-0656-2	**Matrix Spike**	**Aqueous**	**GC/MS RR**	**07/13/18**	**07/14/18 00:48**	**180713S023**
18-07-0656-2	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS RR**	**07/13/18**	**07/14/18 01:18**	**180713S023**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1,1,2-Tetrachloroethane	ND	250.0	331.1	132	298.0	119	75-139	11	0-20	
1,1,1-Trichloroethane	ND	250.0	308.9	124	292.0	117	75-136	6	0-20	
1,1,2,2-Tetrachloroethane	ND	250.0	278.8	112	247.4	99	61-145	12	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	250.0	244.7	98	261.8	105	42-168	7	0-22	
1,1,2-Trichloroethane	ND	250.0	281.3	113	258.1	103	75-125	9	0-20	
1,1-Dichloroethane	ND	250.0	263.3	105	244.5	98	73-139	7	0-20	
1,1-Dichloroethene	ND	250.0	301.5	121	294.2	118	61-145	2	0-20	
1,1-Dichloropropene	ND	250.0	307.6	123	289.5	116	75-135	6	0-20	
1,2,3-Trichlorobenzene	ND	250.0	299.6	120	275.3	110	73-133	8	0-20	
1,2,3-Trichloropropane	ND	250.0	292.6	117	269.6	108	75-127	8	0-20	
1,2,4-Trichlorobenzene	ND	250.0	289.9	116	258.1	103	71-137	12	0-20	
1,2,4-Trimethylbenzene	ND	250.0	286.1	114	262.3	105	75-133	9	0-20	
1,2-Dibromo-3-Chloropropane	ND	250.0	286.7	115	270.9	108	64-142	6	0-20	
1,2-Dibromoethane	ND	250.0	300.3	120	271.3	109	75-129	10	0-20	
1,2-Dichlorobenzene	ND	250.0	306.5	123	274.4	110	75-125	11	0-20	
1,2-Dichloroethane	ND	250.0	330.2	132	298.0	119	75-125	10	0-20	3
1,2-Dichloropropane	ND	250.0	296.9	119	269.8	108	75-127	10	0-20	
1,3,5-Trimethylbenzene	ND	250.0	305.0	122	281.0	112	75-135	8	0-20	
1,3-Dichlorobenzene	ND	250.0	310.2	124	282.6	113	75-125	9	0-20	
1,3-Dichloropropane	ND	250.0	295.9	118	265.7	106	75-125	11	0-20	
1,4-Dichlorobenzene	ND	250.0	313.4	125	283.0	113	75-125	10	0-20	
2,2-Dichloropropane	ND	250.0	247.5	99	221.2	88	24-180	11	0-20	
2-Butanone	ND	250.0	265.6	106	260.4	104	37-157	2	0-20	
2-Chlorotoluene	ND	250.0	313.2	125	282.7	113	75-128	10	0-20	
2-Hexanone	ND	250.0	291.3	117	271.6	109	47-161	7	0-20	
4-Chlorotoluene	ND	250.0	309.7	124	280.4	112	75-125	10	0-20	
4-Methyl-2-Pentanone	ND	250.0	274.5	110	264.4	106	66-138	4	0-20	
Acetone	ND	250.0	229.0	92	232.5	93	34-166	2	0-33	
Benzene	ND	250.0	291.8	117	265.6	106	75-125	9	0-20	
Bromobenzene	ND	250.0	313.4	125	280.9	112	75-125	11	0-20	
Bromochloromethane	ND	250.0	276.1	110	261.7	105	75-125	5	0-20	
Bromodichloromethane	ND	250.0	333.3	133	301.6	121	75-134	10	0-20	
Bromoform	ND	250.0	330.7	132	303.3	121	74-134	9	0-20	
Bromomethane	ND	250.0	246.6	99	223.7	89	20-168	10	0-40	
Carbon Disulfide	ND	250.0	292.8	117	276.2	110	50-152	6	0-27	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 14 of 15

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon Tetrachloride	ND	250.0	345.7	138	331.0	132	70-154	4	0-20	
Chlorobenzene	ND	250.0	304.3	122	278.7	111	75-125	9	0-20	
Chloroethane	ND	250.0	241.7	97	236.7	95	41-167	2	0-26	
Chloroform	ND	250.0	309.2	124	287.2	115	75-127	7	0-20	
Chloromethane	ND	250.0	279.9	112	278.8	112	41-149	0	0-20	
Dibromochloromethane	ND	250.0	326.8	131	292.9	117	75-131	11	0-20	
Dibromomethane	ND	250.0	315.8	126	279.1	112	75-125	12	0-20	3
Dichlorodifluoromethane	ND	250.0	166.1	66	178.6	71	25-157	7	0-26	
Ethylbenzene	ND	250.0	306.9	123	278.9	112	75-129	10	0-20	
Isopropylbenzene	ND	250.0	309.5	124	283.4	113	75-135	9	0-20	
Methylene Chloride	ND	250.0	280.3	112	263.4	105	63-141	6	0-20	
Naphthalene	ND	250.0	255.8	102	236.4	95	59-143	8	0-20	
Styrene	ND	250.0	312.8	125	283.0	113	70-142	10	0-28	
Tetrachloroethene	ND	250.0	325.0	130	311.2	124	47-143	4	0-20	
Toluene	ND	250.0	304.5	122	279.2	112	75-125	9	0-20	
t-1,2-Dichloroethene	ND	250.0	286.0	114	270.3	108	64-142	6	0-20	
Trichloroethene	ND	250.0	313.6	125	289.3	116	67-139	8	0-20	
Trichlorofluoromethane	ND	250.0	310.4	124	319.9	128	59-155	3	0-20	
Vinyl Acetate	ND	250.0	254.8	102	244.4	98	54-180	4	0-25	
Vinyl Chloride	4.523	250.0	280.7	110	282.6	111	51-153	1	0-20	
c-1,3-Dichloropropene	ND	250.0	299.2	120	266.8	107	75-137	11	0-20	
c-1,2-Dichloroethene	7.223	250.0	302.3	118	270.4	105	75-125	11	0-20	
n-Butylbenzene	ND	250.0	302.7	121	275.9	110	73-145	9	0-20	
n-Propylbenzene	ND	250.0	323.8	130	298.1	119	75-133	8	0-20	
o-Xylene	ND	250.0	302.4	121	273.7	109	75-134	10	0-20	
p-Isopropyltoluene	ND	250.0	301.3	121	278.5	111	75-136	8	0-20	
sec-Butylbenzene	ND	250.0	307.6	123	283.9	114	75-135	8	0-20	
t-1,3-Dichloropropene	ND	250.0	299.1	120	268.5	107	74-146	11	0-20	
tert-Butylbenzene	ND	250.0	288.9	116	267.9	107	75-136	8	0-20	
p/m-Xylene	ND	500.0	615.9	123	557.4	111	75-133	10	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	250.0	217.0	87	204.5	82	64-136	6	0-20	
1,4-Dioxane	ND	2500	3591	144	3401	136	75-180	5	0-40	
Tert-Butyl Alcohol (TBA)	ND	1250	1402	112	1279	102	75-136	9	0-20	
Diisopropyl Ether (DIPE)	ND	250.0	288.6	115	266.3	107	73-139	8	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	250.0	234.0	94	216.3	87	69-135	8	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	250.0	272.5	109	248.7	99	69-135	9	0-20	
Ethanol	ND	2500	3260	130	3124	125	29-179	4	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 15 of 15

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0762-3	**Sample**	**Solid**	**GC/MS BB**	**07/12/18**	**07/13/18 06:04**	**180712S022**
18-07-0762-3	**Matrix Spike**	**Solid**	**GC/MS BB**	**07/12/18**	**07/13/18 06:32**	**180712S022**
18-07-0762-3	**Matrix Spike Duplicate**	**Solid**	**GC/MS BB**	**07/12/18**	**07/13/18 07:01**	**180712S022**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloroethene	ND	50.00	36.91	74	38.75	77	47-143	5	0-25	
1,2-Dibromoethane	ND	50.00	36.39	73	38.20	76	64-124	5	0-20	
1,2-Dichlorobenzene	ND	50.00	30.55	61	29.46	59	35-131	4	0-25	
1,2-Dichloroethane	ND	50.00	38.92	78	42.10	84	80-120	8	0-20	3
Benzene	ND	50.00	34.76	70	37.78	76	61-127	8	0-20	
Carbon Tetrachloride	ND	50.00	25.86	52	29.34	59	51-135	13	0-29	
Chlorobenzene	ND	50.00	33.76	68	35.13	70	57-123	4	0-20	
Ethylbenzene	ND	50.00	33.22	66	34.54	69	57-129	4	0-22	
Toluene	ND	50.00	33.70	67	35.50	71	63-123	5	0-20	
Trichloroethene	ND	50.00	39.60	79	42.96	86	44-158	8	0-20	
Vinyl Chloride	ND	50.00	45.32	91	48.56	97	49-139	7	0-47	
o-Xylene	ND	50.00	33.86	68	35.45	71	70-130	5	0-30	3
p/m-Xylene	ND	100.0	52.17	52	44.41	44	70-130	16	0-30	3
Methyl-t-Butyl Ether (MTBE)	ND	50.00	31.76	64	35.52	71	57-123	11	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	220.3	88	223.9	90	30-168	2	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	37.37	75	41.83	84	57-129	11	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	32.66	65	36.22	72	55-127	10	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	37.11	74	40.10	80	58-124	8	0-20	
Ethanol	ND	500.0	15.04	3	0	0	17-167	200	0-47	3,4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: Taft Charter High School			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-07-0647-3	**Sample**	**Aqueous**	**ICP/MS 05**	**07/18/18 00:00**	**07/20/18 00:27**	**180718SA1**
18-07-0647-3	**PDS**	**Aqueous**	**ICP/MS 05**	**07/18/18 00:00**	**07/20/18 00:19**	**180718SA1**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	0.1000	0.1021	102	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B1-0.5	**Sample**	**Solid**	**ICP/MS 05**	**07/16/18 00:00**	**07/18/18 22:23**	**180716S04**
B1-0.5	**PDS**	**Solid**	**ICP/MS 05**	**07/16/18 00:00**	**07/18/18 22:15**	**180716S04**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	8.192	25.00	33.56	101	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B17-0.5	**Sample**	**Solid**	**ICP/MS 05**	**07/16/18 00:00**	**07/18/18 22:03**	**180716S05**
B17-0.5	**PDS**	**Solid**	**ICP/MS 05**	**07/16/18 00:00**	**07/18/18 21:55**	**180716S05**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	10.13	25.00	37.33	109	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26621	**LCS**	**Solid**	**ICP 7300**	**07/16/18**	**07/17/18 11:25**	**180716L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	24.15	97	80-120	73-127	
Barium	25.00	26.03	104	80-120	73-127	
Beryllium	25.00	24.12	96	80-120	73-127	
Cadmium	25.00	25.18	101	80-120	73-127	
Chromium	25.00	25.26	101	80-120	73-127	
Cobalt	25.00	25.85	103	80-120	73-127	
Copper	25.00	26.20	105	80-120	73-127	
Lead	25.00	26.48	106	80-120	73-127	
Molybdenum	25.00	24.44	98	80-120	73-127	
Nickel	25.00	24.93	100	80-120	73-127	
Selenium	25.00	22.47	90	80-120	73-127	
Silver	12.50	11.19	90	80-120	73-127	
Thallium	25.00	22.33	89	80-120	73-127	
Vanadium	25.00	25.06	100	80-120	73-127	
Zinc	25.00	25.21	101	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26654	**LCS**	**Solid**	**ICP 8300**	**07/16/18**	**07/21/18 16:23**	**180716L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	22.99	92	80-120	73-127	
Arsenic	25.00	22.90	92	80-120	73-127	
Barium	25.00	25.86	103	80-120	73-127	
Beryllium	25.00	24.93	100	80-120	73-127	
Cadmium	25.00	27.55	110	80-120	73-127	
Chromium	25.00	25.60	102	80-120	73-127	
Cobalt	25.00	26.62	106	80-120	73-127	
Copper	25.00	24.65	99	80-120	73-127	
Lead	25.00	26.92	108	80-120	73-127	
Molybdenum	25.00	23.87	95	80-120	73-127	
Nickel	25.00	27.93	112	80-120	73-127	
Selenium	25.00	23.73	95	80-120	73-127	
Silver	12.50	11.46	92	80-120	73-127	
Thallium	25.00	23.22	93	80-120	73-127	
Vanadium	25.00	24.21	97	80-120	73-127	
Zinc	25.00	25.95	104	80-120	73-127	

Total number of LCS compounds: 16
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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Taft Charter High School			Page 3 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-16973	**LCS**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:43**	**180718LA2**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.5000	0.4635	93	80-120	73-127	
Barium	0.5000	0.5174	103	80-120	73-127	
Beryllium	0.5000	0.4796	96	80-120	73-127	
Cadmium	0.5000	0.5128	103	80-120	73-127	
Chromium	0.5000	0.5152	103	80-120	73-127	
Cobalt	0.5000	0.5247	105	80-120	73-127	
Copper	0.5000	0.5209	104	80-120	73-127	
Lead	0.5000	0.5284	106	80-120	73-127	
Molybdenum	0.5000	0.4855	97	80-120	73-127	
Nickel	0.5000	0.5089	102	80-120	73-127	
Selenium	0.5000	0.4668	93	80-120	73-127	
Silver	0.2500	0.2332	93	80-120	73-127	
Thallium	0.5000	0.4833	97	80-120	73-127	
Vanadium	0.5000	0.5025	100	80-120	73-127	
Zinc	0.5000	0.5173	103	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: Taft Charter High School			Page 4 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
096-06-003-5945	**LCS**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:07**	**180718LA1A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.1000	0.1149	115	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 5 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1691	**LCS**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 20:41**	**180716L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	23.27	93	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 6 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1690	**LCS**	**Solid**	**ICP/MS 05**	**07/16/18**	**07/18/18 20:41**	**180716L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	23.27	93	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: Taft Charter High School			Page 7 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-04-008-8632	**LCS**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 15:51**	**180719LA2**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009964	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 8 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-3982	**LCS**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 16:17**	**180718L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7893	95	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 9 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-16-272-3981	**LCS**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 17:21**	**180718L03**
099-16-272-3981	**LCSD**	**Solid**	**Mercury 08**	**07/18/18**	**07/18/18 18:00**	**180718L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.8350	0.7627	91	0.7698	92	85-121	1	0-10	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 10 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2981	**LCS**	**Solid**	**GC 44**	**07/13/18**	**07/16/18 11:14**	**180713L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	25.19	101	50-135	36-149	
Alpha-BHC	25.00	25.00	100	50-135	36-149	
Beta-BHC	25.00	22.58	90	50-135	36-149	
4,4'-DDD	25.00	26.17	105	50-135	36-149	
4,4'-DDE	25.00	24.76	99	50-135	36-149	
4,4'-DDT	25.00	26.84	107	50-135	36-149	
Delta-BHC	25.00	25.40	102	50-135	36-149	
Dieldrin	25.00	25.61	102	50-135	36-149	
Endosulfan I	25.00	25.48	102	50-135	36-149	
Endosulfan II	25.00	27.11	108	50-135	36-149	
Endosulfan Sulfate	25.00	28.24	113	50-135	36-149	
Endrin	25.00	20.37	81	50-135	36-149	
Endrin Aldehyde	25.00	28.24	113	50-135	36-149	
Gamma-BHC	25.00	24.48	98	50-135	36-149	
Heptachlor	25.00	25.74	103	50-135	36-149	
Heptachlor Epoxide	25.00	26.18	105	50-135	36-149	
Methoxychlor	25.00	25.80	103	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 11 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2983	**LCS**	**Solid**	**GC 44**	**07/13/18**	**07/18/18 11:22**	**180713L15**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	27.12	108	50-135	36-149	
Alpha-BHC	25.00	27.66	111	50-135	36-149	
Beta-BHC	25.00	26.60	106	50-135	36-149	
4,4'-DDD	25.00	29.68	119	50-135	36-149	
4,4'-DDE	25.00	29.86	119	50-135	36-149	
4,4'-DDT	25.00	29.74	119	50-135	36-149	
Delta-BHC	25.00	27.88	112	50-135	36-149	
Dieldrin	25.00	29.48	118	50-135	36-149	
Endosulfan I	25.00	29.68	119	50-135	36-149	
Endosulfan II	25.00	29.02	116	50-135	36-149	
Endosulfan Sulfate	25.00	29.35	117	50-135	36-149	
Endrin	25.00	23.30	93	50-135	36-149	
Endrin Aldehyde	25.00	19.78	79	50-135	36-149	
Gamma-BHC	25.00	28.14	113	50-135	36-149	
Heptachlor	25.00	29.20	117	50-135	36-149	
Heptachlor Epoxide	25.00	28.67	115	50-135	36-149	
Methoxychlor	25.00	27.53	110	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
Project: Taft Charter High School			Page 12 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-1037	**LCS**	**Aqueous**	**GC 44**	**07/12/18**	**07/17/18 09:10**	**180712L01B**
099-12-529-1037	**LCSD**	**Aqueous**	**GC 44**	**07/12/18**	**07/17/18 09:24**	**180712L01B**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.4374	87	0.4551	91	50-135	36-149	4	0-25	
Gamma-BHC	0.5000	0.4325	86	0.4667	93	50-135	36-149	8	0-25	
Beta-BHC	0.5000	0.4039	81	0.4137	83	50-135	36-149	2	0-25	
Heptachlor	0.5000	0.4088	82	0.4404	88	50-135	36-149	7	0-25	
Delta-BHC	0.5000	0.4394	88	0.4504	90	50-135	36-149	2	0-25	
Aldrin	0.5000	0.3937	79	0.4005	80	50-135	36-149	2	0-25	
Heptachlor Epoxide	0.5000	0.4430	89	0.4607	92	50-135	36-149	4	0-25	
Endosulfan I	0.5000	0.4903	98	0.4822	96	50-135	36-149	2	0-25	
Dieldrin	0.5000	0.4598	92	0.4697	94	50-135	36-149	2	0-25	
4,4'-DDE	0.5000	0.4508	90	0.4546	91	50-135	36-149	1	0-25	
Endrin	0.5000	0.4604	92	0.4856	97	50-135	36-149	5	0-25	
Endrin Aldehyde	0.5000	0.4125	82	0.4693	94	50-135	36-149	13	0-25	
4,4'-DDD	0.5000	0.4545	91	0.4781	96	50-135	36-149	5	0-25	
Endosulfan II	0.5000	0.4353	87	0.4707	94	50-135	36-149	8	0-25	
4,4'-DDT	0.5000	0.4461	89	0.3851	77	50-135	36-149	15	0-25	
Endosulfan Sulfate	0.5000	0.4336	87	0.4837	97	50-135	36-149	11	0-25	
Methoxychlor	0.5000	0.4291	86	0.4828	97	50-135	36-149	12	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
Project: Taft Charter High School			Page 13 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-4760	**LCS**	**Solid**	**GC 58**	**07/18/18**	**07/19/18 10:28**	**180718L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	93.50	94	50-135	
Aroclor-1260	100.0	104.0	104	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8082
Project: Taft Charter High School			Page 14 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1413	**LCS**	**Aqueous**	**GC 31**	**07/12/18**	**07/13/18 20:28**	**180712L01B**
099-12-533-1413	**LCSD**	**Aqueous**	**GC 31**	**07/12/18**	**07/13/18 20:47**	**180712L01B**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.440	72	1.660	83	50-135	14	0-25	
Aroclor-1260	2.000	1.360	68	1.580	79	50-135	15	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 15 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-26430	**LCS**	**Aqueous**	**GC/MS RR**	**07/13/18**	**07/13/18 15:55**	**180713L034**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
1,1,1,2-Tetrachloroethane	50.00	55.76	112	80-129	72-137	
1,1,1-Trichloroethane	50.00	52.85	106	76-124	68-132	
1,1,2,2-Tetrachloroethane	50.00	50.72	101	74-122	66-130	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	48.62	97	54-150	38-166	
1,1,2-Trichloroethane	50.00	51.81	104	80-120	73-127	
1,1-Dichloroethane	50.00	45.50	91	72-126	63-135	
1,1-Dichloroethene	50.00	51.64	103	66-132	55-143	
1,1-Dichloropropene	50.00	50.53	101	75-123	67-131	
1,2,3-Trichlorobenzene	50.00	55.09	110	72-132	62-142	
1,2,3-Trichloropropane	50.00	56.84	114	75-123	67-131	
1,2,4-Trichlorobenzene	50.00	51.92	104	74-134	64-144	
1,2,4-Trimethylbenzene	50.00	51.34	103	74-128	65-137	
1,2-Dibromo-3-Chloropropane	50.00	59.15	118	66-126	56-136	
1,2-Dibromoethane	50.00	53.55	107	80-120	73-127	
1,2-Dichlorobenzene	50.00	54.21	108	80-120	73-127	
1,2-Dichloroethane	50.00	59.13	118	76-120	69-127	
1,2-Dichloropropane	50.00	52.48	105	80-120	73-127	
1,3,5-Trimethylbenzene	50.00	52.81	106	77-131	68-140	
1,3-Dichlorobenzene	50.00	54.59	109	80-120	73-127	
1,3-Dichloropropane	50.00	52.39	105	80-120	73-127	
1,4-Dichlorobenzene	50.00	56.27	113	80-120	73-127	
2,2-Dichloropropane	50.00	55.30	111	50-150	33-167	
2-Butanone	50.00	54.90	110	60-126	49-137	
2-Chlorotoluene	50.00	54.14	108	80-121	73-128	
2-Hexanone	50.00	55.60	111	63-123	53-133	
4-Chlorotoluene	50.00	53.90	108	80-120	73-127	
4-Methyl-2-Pentanone	50.00	54.33	109	65-125	55-135	
Acetone	50.00	46.21	92	53-137	39-151	
Benzene	50.00	49.64	99	79-121	72-128	
Bromobenzene	50.00	54.08	108	80-120	73-127	
Bromochloromethane	50.00	48.54	97	80-122	73-129	
Bromodichloromethane	50.00	57.38	115	80-124	73-131	
Bromoform	50.00	60.64	121	73-127	64-136	
Bromomethane	50.00	42.30	85	50-150	33-167	
Carbon Disulfide	50.00	48.72	97	50-150	33-167	
Carbon Tetrachloride	50.00	58.67	117	65-143	52-156	
Chlorobenzene	50.00	52.25	104	80-120	73-127	
Chloroethane	50.00	41.46	83	62-128	51-139	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 16 of 18

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Chloroform	50.00	53.02	106	80-120	73-127	
Chloromethane	50.00	49.02	98	43-133	28-148	
Dibromochloromethane	50.00	58.40	117	80-123	73-130	
Dibromomethane	50.00	56.32	113	80-120	73-127	
Dichlorodifluoromethane	50.00	33.85	68	50-150	33-167	
Ethylbenzene	50.00	51.87	104	80-120	73-127	
Isopropylbenzene	50.00	52.55	105	80-128	72-136	
Methylene Chloride	50.00	48.92	98	61-133	49-145	
Naphthalene	50.00	48.95	98	69-129	59-139	
Styrene	50.00	53.30	107	80-126	72-134	
Tetrachloroethene	50.00	52.17	104	55-139	41-153	
Toluene	50.00	52.11	104	80-120	73-127	
t-1,2-Dichloroethene	50.00	47.29	95	66-132	55-143	
Trichloroethene	50.00	53.12	106	79-121	72-128	
Trichlorofluoromethane	50.00	56.78	114	72-132	62-142	
Vinyl Acetate	50.00	49.78	100	50-150	33-167	
Vinyl Chloride	50.00	47.72	95	63-129	52-140	
c-1,3-Dichloropropene	50.00	55.32	111	77-131	68-140	
c-1,2-Dichloroethene	50.00	48.54	97	78-120	71-127	
n-Butylbenzene	50.00	53.72	107	72-138	61-149	
n-Propylbenzene	50.00	55.07	110	80-128	72-136	
o-Xylene	50.00	52.11	104	80-128	72-136	
p-Isopropyltoluene	50.00	52.97	106	73-133	63-143	
sec-Butylbenzene	50.00	52.40	105	77-131	68-140	
t-1,3-Dichloropropene	50.00	57.36	115	76-136	66-146	
tert-Butylbenzene	50.00	51.25	102	80-125	72-132	
p/m-Xylene	100.0	105.1	105	80-122	73-129	
Methyl-t-Butyl Ether (MTBE)	50.00	40.95	82	69-123	60-132	
1,4-Dioxane	500.0	729.0	146	80-150	68-162	
Tert-Butyl Alcohol (TBA)	250.0	267.3	107	80-124	73-131	
Diisopropyl Ether (DIPE)	50.00	50.89	102	79-121	72-128	
Ethyl-t-Butyl Ether (ETBE)	50.00	43.59	87	71-125	62-134	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.42	103	70-124	61-133	
Ethanol	500.0	547.7	110	53-149	37-165	

Total number of LCS compounds: 72
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 17 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-14324	**LCS**	**Solid**	**GC/MS BB**	**07/12/18**	**07/13/18 04:08**	**180712L055**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
1,1-Dichloroethene	50.00	44.87	90	68-128	58-138	
1,2-Dibromoethane	50.00	50.32	101	80-120	73-127	
1,2-Dichlorobenzene	50.00	47.58	95	80-120	73-127	
1,2-Dichloroethane	50.00	51.44	103	80-120	73-127	
Benzene	50.00	44.31	89	80-120	73-127	
Carbon Tetrachloride	50.00	33.80	68	65-137	53-149	
Chlorobenzene	50.00	45.93	92	80-120	73-127	
Ethylbenzene	50.00	46.48	93	80-120	73-127	
Toluene	50.00	45.36	91	80-120	73-127	
Trichloroethene	50.00	45.70	91	80-120	73-127	
Vinyl Chloride	50.00	52.50	105	67-127	57-137	
o-Xylene	50.00	47.39	95	75-125	67-133	
p/m-Xylene	100.0	91.74	92	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	41.62	83	70-124	61-133	
Tert-Butyl Alcohol (TBA)	250.0	261.4	105	73-121	65-129	
Diisopropyl Ether (DIPE)	50.00	47.90	96	69-129	59-139	
Ethyl-t-Butyl Ether (ETBE)	50.00	43.19	86	70-124	61-133	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.54	97	74-122	66-130	
Ethanol	500.0	1072	214	51-135	37-149	X

Total number of LCS compounds: 19
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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: Taft Charter High School			Page 18 of 18

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30185	**LCS**	**Solid**	**GC/MS QQ**	**07/12/18**	**07/12/18 10:03**	**180712L040**
095-01-025-30185	**LCSD**	**Solid**	**GC/MS QQ**	**07/12/18**	**07/12/18 10:31**	**180712L040**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
1,1-Dichloroethene	50.00	49.89	100	49.28	99	68-128	58-138	1	0-20	
1,2-Dibromoethane	50.00	49.44	99	50.70	101	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	47.26	95	48.11	96	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	46.17	92	47.17	94	80-120	73-127	2	0-20	
Benzene	50.00	45.38	91	45.28	91	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	49.65	99	49.91	100	65-137	53-149	1	0-20	
Chlorobenzene	50.00	46.06	92	46.12	92	80-120	73-127	0	0-20	
Ethylbenzene	50.00	47.40	95	46.96	94	80-120	73-127	1	0-20	
Toluene	50.00	45.67	91	45.84	92	80-120	73-127	0	0-20	
Trichloroethene	50.00	47.43	95	47.05	94	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	45.12	90	43.37	87	67-127	57-137	4	0-20	
o-Xylene	50.00	48.27	97	49.38	99	75-125	67-133	2	0-25	
p/m-Xylene	100.0	94.18	94	94.27	94	75-125	67-133	0	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	39.93	80	41.24	82	70-124	61-133	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	199.2	80	193.0	77	73-121	65-129	3	0-20	
Diisopropyl Ether (DIPE)	50.00	45.48	91	46.31	93	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	42.49	85	43.43	87	70-124	61-133	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	47.18	94	47.81	96	74-122	66-130	1	0-20	
Ethanol	500.0	373.8	75	380.9	76	51-135	37-149	2	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-07-0682

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3010A Total	771	ICP 7300	1
EPA 6010B	EPA 3050B	1080	ICP 7300	1
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 6020	EPA 3020A Total	598	ICP/MS 05	1
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 7470A	EPA 7470A Total	868	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 3510C	682	GC 47	1
EPA 8015B (M)	EPA 3550B	682	GC 50	1
EPA 8081A	EPA 3545	669	GC 44	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3545	1028	GC 58	1
EPA 8082	EPA 3510C	1028	GC 31	1
EPA 8260B	EPA 5035	486	GC/MS QQ	2
EPA 8260B	EPA 5030C	1120	GC/MS BB	2
EPA 8260B	EPA 5030C	1126	GC/MS RR	2

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Glossary of Terms and Qualifiers

Work Order: 18-07-0682 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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CHAIN-OF-CUSTODY RECORD

Date 7/10/18

Page 1 of 7

WO NO. / LAB USE ONLY: 18-07-0682

LABORATORY CLIENT: EFI Global

ADDRESS: 5261 W Imperial Hwy

CITY: Los Angeles, CA STATE: CA ZIP: 90045

TEL: 310-854-6300 E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: Taft Charter High School 9836003557

P.O. NO.:

PROJECT CONTACT: ~~A~~ Desi Salgado

LAB CONTACT OR QUOTE NO: Nawak - 965156

GLOBAL ID:

LOG CODE:

SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD (7)

EDD

☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OC Ps	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
1	B1-0.5	7/10/18	07:25	S	1	X												X			X		X			
2	B1-1.5	↓	07:28	↓	↓	X																				
3	B1-3		07:31			X																				
4	B2-0.5		07:42			X												X			X		X			
5	B2-1.5		07:47			X																				
6	B2-3		07:50			X																				
7	B3-0.5		07:58			X												X			X		X			
8	B3-1.5		08:02			X																				
9	B3-3		08:05			X																				
10	B4-0.5		08:23			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature]	7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 2 of 7

WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
11	B4-1.5	7/10/18	08:25	S	1	X												~~X~~			X		~~X~~	DS		
12	B4-3	↓	08:30	↓	↓	X																				
13	B5-0.5		08:38			X												X	X		X		X			
14	B5-0.5 DUP		08:38			X												X			X		X			
15	B5-1.5		08:41			X																				
16	B5-3		08:45			X																				
17	B6-0.5		08:52			X								X				X			X		X			
18	B6-1.5		08:55			X																				
19	B6-3		09:00			X																				
20	B7-0.5		09:23			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	13.20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 3 of 7

WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak-965156
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
21	B7-1.5	7/10/18	09:25	S	1	X																				
22	B7-3	↓	09:30	↓	↓	X																				
23	B8-0.5	↓	09:37	↓	↓	X												X			X		X			
24	B8-1.5	↓	09:40	↓	↓	X																				
25	B8-3	↓	09:45	↓	↓	X																				
26	B9-0.5	↓	09:52	↓	↓	X												X	X		X		X			
27	B9-0.5 DUP	↓	09:52	↓	↓	X												X			X		X			
28	B9-1.5	↓	09:55	↓	↓	X																				
29	B9-3	↓	10:00	↓	↓	X																				
30	B10-0.5	↓	10:07	↓	↓	X												X			X		X			

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[signature]	[signature] E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature]	7/11/18	1730
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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 0682

Date 7/10/18

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LABORATORY CLIENT: EFI Global

ADDRESS: 5261 W Imperial Hwy

CITY: STATE: ZIP:

TEL: E-MAIL: desi_salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School

PROJECT CONTACT: Desi Salgado

GLOBAL ID: LOG CODE:

P.O. NO.:

LAB CONTACT OR QUOTE NO: Nowak-965156

SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD: ☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
31	B10-0.5 DUP	7/10/18	10:07	S	1	X												X			X		X			
32	B10-1.5	↓	10:10	↓	↓	X																				
33	B10-3		10:15			X																				
34	B11-0.5		10:32			X												X			X		X			
35	B11-1.5		10:35			X																				
36	B11-3		10:40			X																				
37	B12-0.5		11:32			X												X			X		X			
38	B12-1.5		11:35			X																				
39	B12-3		11:40			X																				
40	B13-5	↓	12:15	↓	5	X	X					X		X							X					

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Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	17:10
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak - 965156
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH CC (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
41	B13-10	7/10/18	12:25	S	5	X	X					X		X							X		X	DS		
42	B13-15		12:35		5	X	X					X		X							X	DS				
43	B14-0.5		13:12		1	X												X			X		X			
44	B14-1.5		13:13			X																				
45	B14-3		13:15			X																				
46	B15-0.5		13:22			X												X			X		X			
47	B15-1.5		13:23			X																				
48	B15-3		13:25			X																				
49	B16-0.5		13:33			X												X			X		X			
50	B16-1.5		13:35			X																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	13:20
		7/11/18	1730

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: 310-854-6300
E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak-965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ~~☐ 6010/747X~~ ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
51	B16-3	7/10/18	13:40	S	1	X																	X	DS		
52	B17-0.5	↓	13:47	↓	↓	X												X			X		X			
53	B17-1.5		13:50			X																				
54	B17-3		13:55			X																				
55	B18-0.5		14:07			X												X			X		X			
56	B18-1.5		14:10			X																				
57	B18-3		14:15			X								X												
58	B19-0.5		14:32			X												X			X		X			
59	B19-1.5		14:33			X																				
60	B19-3		14:35			X																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	1320
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 7 of 7

WO NO. / LAB USE ONLY: 0082

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak - 965156/965159
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

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REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
61	B20-0.5	7/10/18	14:41	S	1	X												X			X		X			
62	B20-1.5	↓	14:43	↓	↓	X																				
63	B20-3		14:45			X																				
64	TB-1			W	2		X							X												
65	EB-1		-	W		X	X					X		X				X	X		X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	1820
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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WORK ORDER NUMBER: 18-07-0682

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI

DATE: 07/11/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2-8 °C (w/ CF): 2-3 °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: 824

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 824
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: _____

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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: (6) PS 7/11/18 **(Trip Blank Lot Number:** 1806293 **)**

Aqueous: ☐ VOA (3) ☑ VOA**h** ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☑ 250PB**n** (pH<2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB (2) ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (___) ☑ TerraCores® (3) ☑ 2oz JT ☐ _____ ☐ _____

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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 826

Reviewed by: TD

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Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-07-0682

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: Taft Charter High School

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 07/30/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: Taft Charter High School
Work Order Number: 18-07-0682

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Work Order Narrative

Work Order: 18-07-0682 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/11/18. They were assigned to Work Order 18-07-0682.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0682
		Project Name:	Taft Charter High School
		PO Number:	9836003557
		Date/Time Received:	07/11/18 17:30
		Number of Containers:	85
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B5-1.5	18-07-0682-15	07/10/18 08:41	1	Solid
B5-3	18-07-0682-16	07/10/18 08:45	1	Solid

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Detections Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order: Project Name: Received:	18-07-0682 Taft Charter High School 07/11/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B5-1.5 (18-07-0682-15)						
4,4'-DDT	5.7	ET	5.0	ug/kg	EPA 8081A	EPA 3545
Dieldrin	59	ET	25	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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-1.5	**18-07-0682-15-A**	**07/10/18 08:41**	**Solid**	**GC 51**	**07/25/18**	**07/26/18 18:28**	**180725L07**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	ET
Alpha-BHC	ND	10	1.00	ET
Beta-BHC	ND	5.0	1.00	ET
Chlordane	ND	50	1.00	ET
4,4'-DDD	ND	5.0	1.00	ET
4,4'-DDE	ND	5.0	1.00	ET
4,4'-DDT	5.7	5.0	1.00	ET
Delta-BHC	ND	10	1.00	ET
Endosulfan I	ND	5.0	1.00	ET
Endosulfan II	ND	5.0	1.00	ET
Endosulfan Sulfate	ND	5.0	1.00	ET
Endrin	ND	5.0	1.00	ET
Endrin Aldehyde	ND	5.0	1.00	ET
Endrin Ketone	ND	5.0	1.00	ET
Gamma-BHC	ND	5.0	1.00	ET
Heptachlor	ND	5.0	1.00	ET
Heptachlor Epoxide	ND	10	1.00	ET
Methoxychlor	ND	5.0	1.00	ET
Toxaphene	ND	100	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	70	24-168	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	

B5-1.5	**18-07-0682-15-A**	**07/10/18 08:41**	**Solid**	**GC 51**	**07/25/18**	**07/27/18 17:37**	**180725L07**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Dieldrin	59	25	5.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	24-168	
2,4,5,6-Tetrachloro-m-Xylene	60	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5-3	**18-07-0682-16-A**	**07/10/18 08:45**	**Solid**	**GC 51**	**07/25/18**	**07/26/18 18:42**	**180725L07**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	ET
Alpha-BHC	ND	10	1.00	ET
Beta-BHC	ND	5.0	1.00	ET
Chlordane	ND	50	1.00	ET
4,4'-DDD	ND	5.0	1.00	ET
4,4'-DDE	ND	5.0	1.00	ET
4,4'-DDT	ND	5.0	1.00	ET
Delta-BHC	ND	10	1.00	ET
Dieldrin	ND	5.0	1.00	ET
Endosulfan I	ND	5.0	1.00	ET
Endosulfan II	ND	5.0	1.00	ET
Endosulfan Sulfate	ND	5.0	1.00	ET
Endrin	ND	5.0	1.00	ET
Endrin Aldehyde	ND	5.0	1.00	ET
Endrin Ketone	ND	5.0	1.00	ET
Gamma-BHC	ND	5.0	1.00	ET
Heptachlor	ND	5.0	1.00	ET
Heptachlor Epoxide	ND	10	1.00	ET
Methoxychlor	ND	5.0	1.00	ET
Toxaphene	ND	100	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	34	24-168	
2,4,5,6-Tetrachloro-m-Xylene	28	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			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	**099-12-537-2991**	**N/A**	**Solid**	**GC 51**	**07/25/18**	**07/26/18 15:08**	**180725L07**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	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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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1455-1	**Sample**	**Solid**	**GC 51**	**07/25/18**	**07/26/18 18:14**	**180725S07**
18-07-1455-1	**Matrix Spike**	**Solid**	**GC 51**	**07/25/18**	**07/26/18 17:45**	**180725S07**
18-07-1455-1	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**07/25/18**	**07/26/18 18:00**	**180725S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	23.11	92	22.78	91	50-135	1	0-25	
Alpha-BHC	ND	25.00	22.52	90	22.38	90	50-135	1	0-25	
Beta-BHC	ND	25.00	22.60	90	22.97	92	50-135	2	0-25	
4,4'-DDD	ND	25.00	28.88	116	28.26	113	50-135	2	0-25	
4,4'-DDE	15.66	25.00	38.20	90	35.11	78	50-135	8	0-25	
4,4'-DDT	ND	25.00	30.37	121	27.97	112	50-135	8	0-25	
Delta-BHC	ND	25.00	24.80	99	24.90	100	50-135	0	0-25	
Dieldrin	ND	25.00	35.39	142	32.84	131	50-135	7	0-25	3
Endosulfan I	ND	25.00	28.01	112	26.12	104	50-135	7	0-25	
Endosulfan II	ND	25.00	25.98	104	25.12	100	50-135	3	0-25	
Endosulfan Sulfate	ND	25.00	33.19	133	28.40	114	50-135	16	0-25	
Endrin	ND	25.00	27.35	109	27.09	108	50-135	1	0-25	
Endrin Aldehyde	ND	25.00	26.75	107	26.00	104	50-135	3	0-25	
Gamma-BHC	ND	25.00	22.76	91	22.74	91	50-135	0	0-25	
Heptachlor	ND	25.00	23.86	95	24.07	96	50-135	1	0-25	
Heptachlor Epoxide	ND	25.00	29.16	117	27.37	109	50-135	6	0-25	
Methoxychlor	ND	25.00	27.28	109	24.83	99	50-135	9	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2991	**LCS**	**Solid**	**GC 51**	**07/25/18**	**07/26/18 15:23**	**180725L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	26.36	105	50-135	36-149	
Alpha-BHC	25.00	25.30	101	50-135	36-149	
Beta-BHC	25.00	24.23	97	50-135	36-149	
4,4'-DDD	25.00	27.45	110	50-135	36-149	
4,4'-DDE	25.00	26.72	107	50-135	36-149	
4,4'-DDT	25.00	26.52	106	50-135	36-149	
Delta-BHC	25.00	26.76	107	50-135	36-149	
Dieldrin	25.00	26.76	107	50-135	36-149	
Endosulfan I	25.00	26.91	108	50-135	36-149	
Endosulfan II	25.00	26.75	107	50-135	36-149	
Endosulfan Sulfate	25.00	26.85	107	50-135	36-149	
Endrin	25.00	25.88	104	50-135	36-149	
Endrin Aldehyde	25.00	26.22	105	50-135	36-149	
Gamma-BHC	25.00	25.45	102	50-135	36-149	
Heptachlor	25.00	26.26	105	50-135	36-149	
Heptachlor Epoxide	25.00	26.07	104	50-135	36-149	
Methoxychlor	25.00	26.01	104	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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Sample Analysis Summary Report

Work Order: 18-07-0682

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8081A	EPA 3545	669	GC 51	1

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Glossary of Terms and Qualifiers

Work Order: 18-07-0682 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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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 1 of 7

WO NO. / LAB USE ONLY: 18-07-0682

LABORATORY CLIENT: EFI Global
ADDRESS: 5261 W Imperial Hwy
CITY: Los Angeles, CA STATE: CA ZIP: 90045
TEL: 310-854-6300 E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: Taft Charter High School 9836003557
P.O. NO.:
PROJECT CONTACT: ~~A~~ Desi Salgado
LAB CONTACT OR QUOTE NO: Nawak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD (7)

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OC Ps	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
1	B1-0.5	7/10/18	07:25	S	1	X												X			X		X			
2	B1-1.5		07:28			X																				
3	B1-3		07:31			X																				
4	B2-0.5		07:42			X												X			X		X			
5	B2-1.5		07:47			X																				
6	B2-3		07:50			X																				
7	B3-0.5		07:58			X												X			X		X			
8	B3-1.5		08:02			X																				
9	B3-3		08:05			X																				
10	B4-0.5		08:23			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature]	7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 2 of 7

WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
11	B4-1.5	7/10/18	08:25	S	1	X												~~X~~			X		~~X~~	DS		
12	B4-3	↓	08:30	↓	↓	X																				
13	B5-0.5		08:38			X												X	X		X		X			
14	B5-0.5 DUP		08:38			X												X			X		X			
15	B5-1.5		08:41			X																				
16	B5-3		08:45			X																				
17	B6-0.5		08:52			X								X				X			X		X			
18	B6-1.5		08:55			X																				
19	B6-3		09:00			X																				
20	B7-0.5		09:23			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	13.20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 3 of 7

WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak-965156
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
21	B7-1.5	7/10/18	09:25	S	1	X																				
22	B7-3	↓	09:30	↓	↓	X																				
23	B8-0.5	↓	09:37	↓	↓	X												X			X		X			
24	B8-1.5	↓	09:40	↓	↓	X																				
25	B8-3	↓	09:45	↓	↓	X																				
26	B9-0.5	↓	09:52	↓	↓	X												X	X		X		X			
27	B9-0.5 DUP	↓	09:52	↓	↓	X												X			X		X			
28	B9-1.5	↓	09:55	↓	↓	X																				
29	B9-3	↓	10:00	↓	↓	X																				
30	B10-0.5	↓	10:07	↓	↓	X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	[signature]	7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WO NO. / LAB USE ONLY: 0682

Date 7/10/18

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LABORATORY CLIENT: EFI Global

ADDRESS: 5261 W Imperial Hwy

CITY: STATE: ZIP:

TEL: E-MAIL: desi_salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School

PROJECT CONTACT: Desi Salgado

GLOBAL ID: LOG CODE:

P.O. NO.:

LAB CONTACT OR QUOTE NO: Nowak-965156

SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD: ☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
31	B10-0.5 DUP	7/10/18	10:07	S	1	X												X			X		X			
32	B10-1.5		10:10			X																				
33	B10-3		10:15			X																				
34	B11-0.5		10:32			X												X			X		X			
35	B11-1.5		10:35			X																				
36	B11-3		10:40			X																				
37	B12-0.5		11:32			X												X			X		X			
38	B12-1.5		11:35			X																				
39	B12-3		11:40			X																				
40	B13-5		12:15		5	X	X					X		X							X					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	17:10
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH CC (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
41	B13-10	7/10/18	12:25	S	5	X	X					X		X							X		X	DS		
42	B13-15		12:35		5	X	X					X		X							X	DS				
43	B14-0.5		13:12		1	X												X			X		X			
44	B14-1.5		13:13			X																				
45	B14-3		13:15			X																				
46	B15-0.5		13:22			X												X			X		X			
47	B15-1.5		13:23			X																				
48	B15-3		13:25			X																				
49	B16-0.5		13:33			X												X			X		X			
50	B16-1.5		13:35			X																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
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		7/11/18	1730

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: 310-854-6300
E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak-965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

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REQUESTED ANALYSES
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LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ~~☐ 6010/747X~~ ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
51	B16-3	7/10/18	13:40	S	1	X																	X	DS		
52	B17-0.5	↓	13:47	↓	↓	X												X			X		X			
53	B17-1.5		13:50			X																				
54	B17-3		13:55			X																				
55	B18-0.5		14:07			X												X			X		X			
56	B18-1.5		14:10			X																				
57	B18-3		14:15			X								X												
58	B19-0.5		14:32			X												X			X		X			
59	B19-1.5		14:33			X																				
60	B19-3		14:35			X																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E-C	7/11/18	1320
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
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WO NO. / LAB USE ONLY: 0882

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak - 965156/965159
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
61	B20-0.5	7/10/18	14:41	S	1	X												X			X		X			
62	B20-1.5	↓	14:43	↓	↓	X																				
63	B20-3		14:45			X																				
64	TB-1			W	2		X							X												
65	EB-1		-	W		X	X					X		X				X	X		X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	1820
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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WORK ORDER NUMBER: 18-07-0682

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI

DATE: 07/11/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2-8 °C (w/ CF): 2-3 °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: 804

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 804
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: _____

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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: (6) PS 7/11/18 **(Trip Blank Lot Number:** 1806293 **)**

Aqueous: ☐ VOA (3) ☑ VOA**h** ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☑ 250PB**n** (pH<2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB (2) ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (___) ☑ TerraCores® (3) ☑ 2oz II ☐ _____ ☐ _____

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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 826

Reviewed by: 70

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Wednesday, July 25, 2018 1:03 PM
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Steve,

Please run samples B5-1.5 and B5-3 for OCPs by 8081A on 3 day TAT. Thanks.

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, July 24, 2018 3:24 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0682

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Calscience

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Supplemental Report 2

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-07-0682

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: Taft Charter High School

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 08/10/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-07-0682

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Work Order Narrative

Work Order: 18-07-0682 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/11/18. They were assigned to Work Order 18-07-0682.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0682
		Project Name:	Taft Charter High School
		PO Number:	9836003557
		Date/Time Received:	07/11/18 17:30
		Number of Containers:	85
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B2-1.5	18-07-0682-5	07/10/18 07:47	1	Solid
B9-1.5	18-07-0682-28	07/10/18 09:55	1	Solid
B11-1.5	18-07-0682-35	07/10/18 10:35	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 1 of 2

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B2-1.5 (18-07-0682-5)						
Barium	113		0.483	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.416		0.242	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.995		0.483	mg/kg	EPA 6010B	EPA 3050B
Chromium	27.1		0.242	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.69		0.242	mg/kg	EPA 6010B	EPA 3050B
Copper	46.1		0.483	mg/kg	EPA 6010B	EPA 3050B
Lead	4.71		0.483	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	8.71		0.242	mg/kg	EPA 6010B	EPA 3050B
Nickel	19.4		0.242	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.76		0.725	mg/kg	EPA 6010B	EPA 3050B
Vanadium	26.1		0.242	mg/kg	EPA 6010B	EPA 3050B
Zinc	78.8		0.966	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.99		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0975		0.0833	mg/kg	EPA 7471A	EPA 7471A Total
B9-1.5 (18-07-0682-28)						
Barium	136		0.518	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.471		0.259	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.36		0.518	mg/kg	EPA 6010B	EPA 3050B
Chromium	26.1		0.259	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.75		0.259	mg/kg	EPA 6010B	EPA 3050B
Copper	43.8		0.518	mg/kg	EPA 6010B	EPA 3050B
Lead	27.4		0.518	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.22		0.259	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.5		0.259	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.35		0.777	mg/kg	EPA 6010B	EPA 3050B
Vanadium	29.9		0.259	mg/kg	EPA 6010B	EPA 3050B
Zinc	162		1.04	mg/kg	EPA 6010B	EPA 3050B
Arsenic	25.5		1.00	mg/kg	EPA 6020	EPA 3050B

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* MDL is shown

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 2 of 2

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B11-1.5 (18-07-0682-35)						
Barium	138		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.511		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.39		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	29.9		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.54		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	30.9		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	29.3		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.96		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	20.2		0.246	mg/kg	EPA 6010B	EPA 3050B
Silver	0.375		0.246	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.9		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	130		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	15.2		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0896		0.0820	mg/kg	EPA 7471A	EPA 7471A Total

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-1.5	**18-07-0682-5-A**	**07/10/18 07:47**	**Solid**	**ICP 8300**	**07/30/18**	**08/07/18 15:32**	**180730L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Barium	113	0.483	0.966	
Beryllium	0.416	0.242	0.966	
Cadmium	0.995	0.483	0.966	
Chromium	27.1	0.242	0.966	
Cobalt	6.69	0.242	0.966	
Copper	46.1	0.483	0.966	
Lead	4.71	0.483	0.966	
Molybdenum	8.71	0.242	0.966	
Nickel	19.4	0.242	0.966	
Selenium	2.76	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	26.1	0.242	0.966	
Zinc	78.8	0.966	0.966	

B9-1.5	**18-07-0682-28-A**	**07/10/18 09:55**	**Solid**	**ICP 8300**	**07/30/18**	**08/07/18 15:33**	**180730L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.777	1.04	
Barium	136	0.518	1.04	
Beryllium	0.471	0.259	1.04	
Cadmium	1.36	0.518	1.04	
Chromium	26.1	0.259	1.04	
Cobalt	7.75	0.259	1.04	
Copper	43.8	0.518	1.04	
Lead	27.4	0.518	1.04	
Molybdenum	3.22	0.259	1.04	
Nickel	29.5	0.259	1.04	
Selenium	4.35	0.777	1.04	
Silver	ND	0.259	1.04	
Thallium	ND	0.777	1.04	
Vanadium	29.9	0.259	1.04	
Zinc	162	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-1.5	**18-07-0682-35-A**	**07/10/18 10:35**	**Solid**	**ICP 8300**	**07/30/18**	**08/07/18 15:34**	**180730L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	138	0.493	0.985	
Beryllium	0.511	0.246	0.985	
Cadmium	1.39	0.493	0.985	
Chromium	29.9	0.246	0.985	
Cobalt	7.54	0.246	0.985	
Copper	30.9	0.493	0.985	
Lead	29.3	0.493	0.985	
Molybdenum	1.96	0.246	0.985	
Nickel	20.2	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	0.375	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	35.9	0.246	0.985	
Zinc	130	0.985	0.985	

Method Blank	**097-01-002-26719**	**N/A**	**Solid**	**ICP 8300**	**07/30/18**	**08/01/18 19:05**	**180730L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	ND	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	ND	0.248	0.990	
Cobalt	ND	0.248	0.990	
Copper	ND	0.495	0.990	
Lead	ND	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	ND	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	ND	0.248	0.990	
Zinc	ND	0.990	0.990	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-1.5	**18-07-0682-5-A**	**07/10/18 07:47**	**Solid**	**ICP/MS 05**	**07/30/18**	**08/02/18 06:15**	**180730L02A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.99	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-1.5	**18-07-0682-28-A**	**07/10/18 09:55**	**Solid**	**ICP/MS 05**	**07/30/18**	**08/02/18 06:30**	**180730L02A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	25.5	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-1.5	**18-07-0682-35-A**	**07/10/18 10:35**	**Solid**	**ICP/MS 05**	**07/30/18**	**08/02/18 06:33**	**180730L02A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	15.2	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-1702**	**N/A**	**Solid**	**ICP/MS 05**	**07/30/18**	**08/01/18 18:37**	**180730L02A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-1.5	**18-07-0682-5-A**	**07/10/18 07:47**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 16:05**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0975	0.0833	1.00	

B9-1.5	**18-07-0682-28-A**	**07/10/18 09:55**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 16:12**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B11-1.5	**18-07-0682-35-A**	**07/10/18 10:35**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 16:14**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0896	0.0820	1.00	

Method Blank	**099-16-272-4024**	**N/A**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:17**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1834-1	**Sample**	**Solid**	**ICP 8300**	**07/30/18**	**08/02/18 15:16**	**180730S01**
18-07-1834-1	**Matrix Spike**	**Solid**	**ICP 8300**	**07/30/18**	**08/02/18 15:17**	**180730S01**
18-07-1834-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**07/30/18**	**08/02/18 15:17**	**180730S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	21.34	85	22.65	91	50-115	6	0-20	
Barium	43.03	25.00	63.68	83	65.00	88	75-125	2	0-20	
Beryllium	ND	25.00	25.23	101	26.45	106	75-125	5	0-20	
Cadmium	ND	25.00	25.27	101	25.87	103	75-125	2	0-20	
Chromium	5.719	25.00	30.38	99	31.00	101	75-125	2	0-20	
Cobalt	0.5610	25.00	27.80	109	29.15	114	75-125	5	0-20	
Copper	165.2	25.00	167.2	4X	173.1	4X	75-125	4X	0-20	Q
Lead	2.448	25.00	26.75	97	28.30	103	75-125	6	0-20	
Molybdenum	4.557	25.00	28.02	94	29.24	99	75-125	4	0-20	
Nickel	5.592	25.00	30.30	99	31.22	103	75-125	3	0-20	
Selenium	4.195	25.00	29.21	100	30.42	105	75-125	4	0-20	
Silver	0.5870	12.50	13.10	100	13.43	103	75-125	2	0-20	
Thallium	ND	25.00	18.14	73	22.26	89	75-125	20	0-20	3
Vanadium	22.46	25.00	44.88	90	46.19	95	75-125	3	0-20	
Zinc	175.3	25.00	173.7	4X	182.8	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1309-1	**Sample**	**Sediment**	**ICP/MS 05**	**07/30/18**	**08/01/18 19:09**	**180730S02**
18-07-1309-1	**Matrix Spike**	**Sediment**	**ICP/MS 05**	**07/30/18**	**08/07/18 18:51**	**180730S02**
18-07-1309-1	**Matrix Spike Duplicate**	**Sediment**	**ICP/MS 05**	**07/30/18**	**08/07/18 18:54**	**180730S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	2.653	25.00	28.36	103	30.02	109	80-120	6	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1559-1	**Sample**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:22**	**180731S02**
18-07-1559-1	**Matrix Spike**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:24**	**180731S02**
18-07-1559-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:26**	**180731S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7756	93	0.7511	90	71-137	3	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-07-1309-1	**Sample**	**Sediment**	**ICP/MS 05**	**07/30/18 00:00**	**08/01/18 19:09**	**180730S02**
18-07-1309-1	**PDS**	**Sediment**	**ICP/MS 05**	**07/30/18 00:00**	**08/07/18 18:58**	**180730S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	2.653	25.00	28.25	102	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26719	**LCS**	**Solid**	**ICP 8300**	**07/30/18**	**08/01/18 19:06**	**180730L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	22.67	91	80-120	73-127	
Barium	25.00	23.97	96	80-120	73-127	
Beryllium	25.00	22.42	90	80-120	73-127	
Cadmium	25.00	27.04	108	80-120	73-127	
Chromium	25.00	23.77	95	80-120	73-127	
Cobalt	25.00	25.35	101	80-120	73-127	
Copper	25.00	23.40	94	80-120	73-127	
Lead	25.00	24.47	98	80-120	73-127	
Molybdenum	25.00	23.17	93	80-120	73-127	
Nickel	25.00	27.11	108	80-120	73-127	
Selenium	25.00	22.95	92	80-120	73-127	
Silver	12.50	10.62	85	80-120	73-127	
Thallium	25.00	21.85	87	80-120	73-127	
Vanadium	25.00	23.33	93	80-120	73-127	
Zinc	25.00	24.37	97	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1702	**LCS**	**Solid**	**ICP/MS 05**	**07/30/18**	**08/01/18 18:40**	**180730L02A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	24.21	97	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4024	**LCS**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:19**	**180731L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	1.012	121	85-121	

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-07-0682

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	868	ICP 8300	1
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1

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Glossary of Terms and Qualifiers

Work Order: 18-07-0682 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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CHAIN-OF-CUSTODY RECORD

Date 7/10/18

Page 1 of 7

WO NO. / LAB USE ONLY: 18-07-0682

LABORATORY CLIENT: EFI Global

ADDRESS: 5261 W Imperial Hwy

CITY: Los Angeles, CA STATE: CA ZIP: 90045

TEL: 310-854-6300 E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: Taft Charter High School 9836003557

P.O. NO.:

PROJECT CONTACT: ~~A~~ Desi Salgado

LAB CONTACT OR QUOTE NO: Nawak - 965156

GLOBAL ID:

LOG CODE:

SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD (7)

EDD

☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OC Ps	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
1	B1-0.5	7/10/18	07:25	S	1	X												X			X		X			
2	B1-1.5	↓	07:28	↓	↓	X																				
3	B1-3		07:31			X																				
4	B2-0.5		07:42			X												X			X		X			
5	B2-1.5		07:47			X																				
6	B2-3		07:50			X																				
7	B3-0.5		07:58			X												X			X		X			
8	B3-1.5		08:02			X																				
9	B3-3		08:05			X																				
10	B4-0.5		08:23			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature]	7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 2 of 7

WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
11	B4-1.5	7/10/18	08:25	S	1	X												~~X~~			X		~~X~~	DS		
12	B4-3	↓	08:30	↓	↓	X																				
13	B5-0.5		08:38			X												X	X		X		X			
14	B5-0.5 DUP		08:38			X												X			X		X			
15	B5-1.5		08:41			X																				
16	B5-3		08:45			X																				
17	B6-0.5		08:52			X								X				X			X		X			
18	B6-1.5		08:55			X																				
19	B6-3		09:00			X																				
20	B7-0.5		09:23			X												X			X		X			

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	E.C	7/11/18	13.20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 3 of 7

WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak-965156
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
21	B7-1.5	7/10/18	09:25	S	1	X																				
22	B7-3	↓	09:30	↓	↓	X																				
23	B8-0.5	↓	09:37	↓	↓	X												X			X		X			
24	B8-1.5	↓	09:40	↓	↓	X																				
25	B8-3	↓	09:45	↓	↓	X																				
26	B9-0.5	↓	09:52	↓	↓	X												X	X		X		X			
27	B9-0.5 DUP	↓	09:52	↓	↓	X												X			X		X			
28	B9-1.5	↓	09:55	↓	↓	X																				
29	B9-3	↓	10:00	↓	↓	X																				
30	B10-0.5	↓	10:07	↓	↓	X												X			X		X			

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[signature]	[signature] E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	[signature]	7/11/18	1730
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CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 0682

Date 7/10/18

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LABORATORY CLIENT: EFI Global

ADDRESS: 5261 W Imperial Hwy

CITY: STATE: ZIP:

TEL: E-MAIL: desi_salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School

PROJECT CONTACT: Desi Salgado

P.O. NO.:

LAB CONTACT OR QUOTE NO: Nowak-965156

GLOBAL ID:

LOG CODE:

SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD

☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
31	B10-0.5 DUP	7/10/18	10:07	S	1	X												X			X		X			
32	B10-1.5	↓	10:10	↓	↓	X																				
33	B10-3		10:15			X																				
34	B11-0.5		10:32			X												X			X		X			
35	B11-1.5		10:35			X																				
36	B11-3		10:40			X																				
37	B12-0.5		11:32			X												X			X		X			
38	B12-1.5		11:35			X																				
39	B12-3		11:40			X																				
40	B13-5	↓	12:15	↓	5	X	X					X		X							X					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	17:10
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
41	B13-10	7/10/18	12:25	S	5	X	X					X		X							X		X	DS		
42	B13-15		12:35		5	X	X					X		X							X	DS				
43	B14-0.5		13:12		1	X												X			X		X			
44	B14-1.5		13:13			X																				
45	B14-3		13:15			X																				
46	B15-0.5		13:22			X												X			X		X			
47	B15-1.5		13:23			X																				
48	B15-3		13:25			X																				
49	B16-0.5		13:33			X												X			X		X			
50	B16-1.5		13:35			X																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
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		7/11/18	1730

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: 310-854-6300
E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak-965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ~~☐ 6010/747X~~ ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
51	B16-3	7/10/18	13:40	S	1	X																	X	DS		
52	B17-0.5	↓	13:47	↓	↓	X												X			X		X			
53	B17-1.5		13:50			X																				
54	B17-3		13:55			X																				
55	B18-0.5		14:07			X												X			X		X			
56	B18-1.5		14:10			X																				
57	B18-3		14:15			X								X												
58	B19-0.5		14:32			X												X			X		X			
59	B19-1.5		14:33			X																				
60	B19-3		14:35			X																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E-C	7/11/18	1320
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 7 of 7

WO NO. / LAB USE ONLY: 0082

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak - 965156/965159
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
61	B20-0.5	7/10/18	14:41	S	1	X												X			X		X			
62	B20-1.5	↓	14:43	↓	↓	X																				
63	B20-3		14:45			X																				
64	TB-1			W	2		X							X												
65	EB-1		-	W		X	X					X		X				X	X		X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	1820
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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WORK ORDER NUMBER: 18-07-0682

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI

DATE: 07 / 11 / 2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2-8 °C (w/ CF): 2-3 °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: 804

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 804
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: _____

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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: (3) (6) PS 7/11/18 **(Trip Blank Lot Number:** 180629B**)**

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9) ☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☑ 250PBn (pH<2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB ☑ 1AGB (2) ☐ 1AGBna$_2$ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (__) ☑ TerraCores® (3) ☑ 2oz PI ☐ _____ ☐ _____

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, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 826

Reviewed by: TD

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Wednesday, July 25, 2018 1:03 PM
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Steve,

Please run samples B5-1.5 and B5-3 for OCPs by 8081A on 3 day TAT. Thanks.

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, July 24, 2018 3:24 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0682

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Calscience

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Thursday, July 26, 2018 12:55 PM
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

Steve,

I'd like to request lead STLC analysis for sample B37-0.5 and the following samples for arsenic by 6020 and Title 22 Metals by 6010B/7471A:

- B2-1.5
- B9-1.5
- B11-1.5
- B24-1.5
- B34-1.5
- B37-1.5
- B41-1.5
- B43-1.5
- B49-1.5

Please let me know if you have any questions. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, July 24, 2018 4:38 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0811

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way

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Supplemental Report 3

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-07-0682

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: Taft Charter High School

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 09/05/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-07-0682

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Work Order Narrative

Work Order: 18-07-0682 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/11/18. They were assigned to Work Order 18-07-0682.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0682
		Project Name:	Taft Charter High School
		PO Number:	9836003557
		Date/Time Received:	07/11/18 17:30
		Number of Containers:	85
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B2-0.5	18-07-0682-4	07/10/18 07:42	1	Solid
B4-0.5	18-07-0682-10	07/10/18 08:23	1	Solid
B9-3	18-07-0682-29	07/10/18 10:00	1	Solid
B11-3	18-07-0682-36	07/10/18 10:40	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0682
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/11/18
Attn:	Desi Salgado		Page 1 of 1

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B2-0.5 (18-07-0682-4)						
Lead	2.82		0.100	mg/L	EPA 6010B	T22.11.5. AII
B4-0.5 (18-07-0682-10)						
Lead	1.67		0.100	mg/L	EPA 6010B	T22.11.5. AII
B9-3 (18-07-0682-29)						
Barium	173		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.606		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.13		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	14.3		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.35		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	18.6		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	2.50		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.91		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.2		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.784		0.746	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.66		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.1		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	40.7		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.35		5.00	mg/kg	EPA 6020	EPA 3050B
B11-3 (18-07-0682-36)						
Barium	148		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.710		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.31		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	27.2		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.22		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	39.3		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	4.61		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	8.06		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.5		0.246	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.54		0.739	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.61		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.5		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	83.0		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.62		5.00	mg/kg	EPA 6020	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-3	**18-07-0682-29-A**	**07/10/18 10:00**	**Solid**	**ICP 8300**	**08/23/18**	**08/25/18 21:23**	**180823L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	173	0.498	0.995	
Beryllium	0.606	0.249	0.995	
Cadmium	1.13	0.498	0.995	
Chromium	14.3	0.249	0.995	
Cobalt	5.35	0.249	0.995	
Copper	18.6	0.498	0.995	
Lead	2.50	0.498	0.995	
Molybdenum	1.91	0.249	0.995	
Nickel	26.2	0.249	0.995	
Selenium	0.784	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	1.66	0.746	0.995	
Vanadium	31.1	0.249	0.995	
Zinc	40.7	0.995	0.995	

B11-3	**18-07-0682-36-A**	**07/10/18 10:40**	**Solid**	**ICP 8300**	**08/23/18**	**08/25/18 21:25**	**180823L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	148	0.493	0.985	
Beryllium	0.710	0.246	0.985	
Cadmium	1.31	0.493	0.985	
Chromium	27.2	0.246	0.985	
Cobalt	8.22	0.246	0.985	
Copper	39.3	0.493	0.985	
Lead	4.61	0.493	0.985	
Molybdenum	8.06	0.246	0.985	
Nickel	35.5	0.246	0.985	
Selenium	1.54	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	1.61	0.739	0.985	
Vanadium	39.5	0.246	0.985	
Zinc	83.0	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			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	**097-01-002-26857**	**N/A**	**Solid**	**ICP 8300**	**08/23/18**	**08/25/18 16:43**	**180823L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B2-0.5	**18-07-0682-4-A**	**07/10/18 07:42**	**Solid**	**ICP 8300**	**08/22/18**	**08/28/18 18:00**	**180824LA1**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	2.82	0.100	1.00	

B4-0.5	**18-07-0682-10-A**	**07/10/18 08:23**	**Solid**	**ICP 8300**	**08/22/18**	**08/28/18 18:01**	**180824LA1**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	1.67	0.100	1.00	

Method Blank	**097-05-006-9699**	**N/A**	**Aqueous**	**ICP 8300**	**08/22/18**	**08/28/18 17:34**	**180824LA1**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-3	**18-07-0682-29-A**	**07/10/18 10:00**	**Solid**	**ICP/MS 05**	**08/30/18**	**08/31/18 16:18**	**180830L01A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.35	5.00	5.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11-3	**18-07-0682-36-A**	**07/10/18 10:40**	**Solid**	**ICP/MS 05**	**08/30/18**	**08/31/18 16:22**	**180830L01A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.62	5.00	5.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-1727**	**N/A**	**Solid**	**ICP/MS 05**	**08/30/18**	**08/31/18 15:01**	**180830L01A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B9-3	**18-07-0682-29-A**	**07/10/18 10:00**	**Solid**	**Mercury 07**	**08/21/18**	**08/21/18 19:22**	**180821L06A**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	BU,ET

B11-3	**18-07-0682-36-A**	**07/10/18 10:40**	**Solid**	**Mercury 07**	**08/21/18**	**08/21/18 19:24**	**180821L06A**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	BU,ET

Method Blank	**099-16-272-4074**	**N/A**	**Solid**	**Mercury 07**	**08/21/18**	**08/21/18 19:11**	**180821L06A**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1843-6	**Sample**	**Solid**	**ICP 8300**	**08/23/18**	**08/25/18 16:46**	**180823S05**
18-08-1843-6	**Matrix Spike**	**Solid**	**ICP 8300**	**08/23/18**	**08/25/18 16:48**	**180823S05**
18-08-1843-6	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/23/18**	**08/25/18 16:50**	**180823S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	13.21	53	11.73	47	50-115	12	0-20	3
Barium	61.03	25.00	112.9	207	119.3	233	75-125	5	0-20	3
Beryllium	0.3482	25.00	26.09	103	24.76	98	75-125	5	0-20	
Cadmium	ND	25.00	27.83	111	26.36	105	75-125	5	0-20	
Chromium	15.77	25.00	49.75	136	40.32	98	75-125	21	0-20	3,4
Cobalt	5.274	25.00	33.71	114	32.51	109	75-125	4	0-20	
Copper	6.659	25.00	37.09	122	35.66	116	75-125	4	0-20	
Lead	2.036	25.00	29.27	109	27.30	101	75-125	7	0-20	
Molybdenum	ND	25.00	22.90	92	21.75	87	75-125	5	0-20	
Nickel	27.12	25.00	70.74	174	60.54	134	75-125	16	0-20	3
Selenium	ND	25.00	23.81	95	23.33	93	75-125	2	0-20	
Silver	ND	12.50	12.27	98	11.75	94	75-125	4	0-20	
Thallium	ND	25.00	25.24	101	23.68	95	75-125	6	0-20	
Vanadium	13.79	25.00	52.03	153	42.41	114	75-125	20	0-20	3
Zinc	15.52	25.00	49.20	135	42.96	110	75-125	14	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-0436-2	**Sample**	**Concrete**	**ICP 8300**	**08/22/18**	**08/28/18 17:39**	**180824SA1**
18-08-0436-2	**Matrix Spike**	**Concrete**	**ICP 8300**	**08/22/18**	**08/28/18 17:40**	**180824SA1**
18-08-0436-2	**Matrix Spike Duplicate**	**Concrete**	**ICP 8300**	**08/22/18**	**08/28/18 17:42**	**180824SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	ND	5.000	5.483	110	5.558	111	75-125	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-2199-1	**Sample**	**Filter**	**ICP/MS 05**	**08/30/18**	**08/31/18 15:22**	**180830S01**
18-08-2199-1	**Matrix Spike**	**Filter**	**ICP/MS 05**	**08/30/18**	**08/31/18 15:08**	**180830S01**
18-08-2199-1	**Matrix Spike Duplicate**	**Filter**	**ICP/MS 05**	**08/30/18**	**08/31/18 16:29**	**180830S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	600.0	659.1	110	601.6	100	80-120	9	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-0997-7	**Sample**	**Sediment**	**Mercury 07**	**08/21/18**	**08/21/18 19:15**	**180821S06**
18-08-0997-7	**Matrix Spike**	**Sediment**	**Mercury 07**	**08/21/18**	**08/21/18 19:18**	**180821S06**
18-08-0997-7	**Matrix Spike Duplicate**	**Sediment**	**Mercury 07**	**08/21/18**	**08/21/18 19:20**	**180821S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.2819	0.8350	1.016	88	1.068	94	76-136	5	0-16	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-08-0436-2	**Sample**	**Concrete**	**ICP 8300**	**08/22/18 00:00**	**08/28/18 17:39**	**180824SA1**
18-08-0436-2	**PDS**	**Concrete**	**ICP 8300**	**08/22/18 00:00**	**08/28/18 17:43**	**180824SA1**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Lead	ND	5.000	5.219	104	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-08-2199-1	**Sample**	**Filter**	**ICP/MS 05**	**08/30/18 00:00**	**08/31/18 15:22**	**180830S01**
18-08-2199-1	**PDS**	**Filter**	**ICP/MS 05**	**08/30/18 00:00**	**08/31/18 15:15**	**180830S01**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	600.0	640.1	107	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26857	**LCS**	**Solid**	**ICP 8300**	**08/23/18**	**08/25/18 16:45**	**180823L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	20.66	83	80-120	73-127	
Barium	25.00	23.91	96	80-120	73-127	
Beryllium	25.00	22.37	89	80-120	73-127	
Cadmium	25.00	23.47	94	80-120	73-127	
Chromium	25.00	23.34	93	80-120	73-127	
Cobalt	25.00	23.16	93	80-120	73-127	
Copper	25.00	22.94	92	80-120	73-127	
Lead	25.00	25.70	103	80-120	73-127	
Molybdenum	25.00	22.81	91	80-120	73-127	
Nickel	25.00	23.36	93	80-120	73-127	
Selenium	25.00	21.55	86	80-120	73-127	
Silver	12.50	11.33	91	80-120	73-127	
Thallium	25.00	23.28	93	80-120	73-127	
Vanadium	25.00	22.37	89	80-120	73-127	
Zinc	25.00	24.15	97	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-05-006-9699	**LCS**	**Aqueous**	**ICP 8300**	**08/22/18**	**08/28/18 17:36**	**180824LA1**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	5.000	5.827	117	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1727	**LCS**	**Solid**	**ICP/MS 05**	**08/30/18**	**08/31/18 15:05**	**180830L01A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	25.52	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/11/18
5261 West Imperial Highway		Work Order:	18-07-0682
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4074	**LCS**	**Solid**	**Mercury 07**	**08/21/18**	**08/21/18 19:13**	**180821L06A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8082	97	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-07-0682

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	110	ICP 8300	1
EPA 6010B	T22.11.5. AII	110	ICP 8300	1
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 7471A	EPA 7471A Total	110	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1

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Glossary of Terms and Qualifiers

Work Order: 18-07-0682 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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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 1 of 7

WO NO. / LAB USE ONLY: 18-07-0682

LABORATORY CLIENT: EFI Global
ADDRESS: 5261 W Imperial Hwy
CITY: Los Angeles, CA STATE: CA ZIP: 90045
TEL: 310-854-6300 E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: Taft Charter High School 9836003557
P.O. NO.:
PROJECT CONTACT: ~~A~~ Desi Salgado
LAB CONTACT OR QUOTE NO: Nawak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD (7)

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OC Ps	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
1	B1-0.5	7/10/18	07:25	S	1	X												X			X		X			
2	B1-1.5		07:28			X																				
3	B1-3		07:31			X																				
4	B2-0.5		07:42			X												X			X		X			
5	B2-1.5		07:47			X																				
6	B2-3		07:50			X																				
7	B3-0.5		07:58			X												X			X		X			
8	B3-1.5		08:02			X																				
9	B3-3		08:05			X																				
10	B4-0.5		08:23			X												X			X		X			

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[signature]	[signature] E.C	7/11/18	13:20
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[signature]	[signature]	7/11/18	1730
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

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LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
11	B4-1.5	7/10/18	08:25	S	1	X												~~X~~			X		~~X~~	DS		
12	B4-3	↓	08:30	↓	↓	X																				
13	B5-0.5		08:38			X												X	X		X		X			
14	B5-0.5 DUP		08:38			X												X			X		X			
15	B5-1.5		08:41			X																				
16	B5-3		08:45			X																				
17	B6-0.5		08:52			X								X				X			X		X			
18	B6-1.5		08:55			X																				
19	B6-3		09:00			X																				
20	B7-0.5		09:23			X												X			X		X			

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		7/11/18	1730

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Date 7/10/18
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak-965156
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

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LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
21	B7-1.5	7/10/18	09:25	S	1	X																				
22	B7-3	↓	09:30	↓	↓	X																				
23	B8-0.5	↓	09:37	↓	↓	X												X			X		X			
24	B8-1.5	↓	09:40	↓	↓	X																				
25	B8-3	↓	09:45	↓	↓	X																				
26	B9-0.5	↓	09:52	↓	↓	X												X	X		X		X			
27	B9-0.5 DUP	↓	09:52	↓	↓	X												X			X		X			
28	B9-1.5	↓	09:55	↓	↓	X																				
29	B9-3	↓	10:00	↓	↓	X																				
30	B10-0.5	↓	10:07	↓	↓	X												X			X		X			

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[signature]	[signature] E.C	7/11/18	13:20
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	[signature]	7/11/18	1730
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LABORATORY CLIENT: EFI Global

ADDRESS: 5261 W Imperial Hwy

CITY: STATE: ZIP:

TEL: E-MAIL: desi_salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School

PROJECT CONTACT: Desi Salgado

P.O. NO.:

LAB CONTACT OR QUOTE NO: Nowak-965156

GLOBAL ID:

LOG CODE:

SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD: ☐ COELT EDF ☐ OTHER

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LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 218.6	Arsenic (6020)			
31	B10-0.5 DUP	7/10/18	10:07	S	1	X												X			X		X			
32	B10-1.5		10:10			X																				
33	B10-3		10:15			X																				
34	B11-0.5		10:32			X												X			X		X			
35	B11-1.5		10:35			X																				
36	B11-3		10:40			X																				
37	B12-0.5		11:32			X												X			X		X			
38	B12-1.5		11:35			X																				
39	B12-3		11:40			X																				
40	B13-5		12:15		5	X	X					X		X							X					

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	E.C	7/11/18	13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	17:10
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WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak - 965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
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LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
41	B13-10	7/10/18	12:25	S	5	X	X					X		X							X		X	DS		
42	B13-15		12:35		5	X	X					X		X							X	DS				
43	B14-0.5		13:12		1	X												X			X		X			
44	B14-1.5		13:13			X																				
45	B14-3		13:15			X																				
46	B15-0.5		13:22			X												X			X		X			
47	B15-1.5		13:23			X																				
48	B15-3		13:25			X																				
49	B16-0.5		13:33			X												X			X		X			
50	B16-1.5		13:35			X																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E.C	7/11/18	13:20
[signature]	[signature]	7/11/18	1730

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
Page 6 of 7

WO NO. / LAB USE ONLY: 0682

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: 310-854-6300
E-MAIL: desi.salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak-965156
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ~~☐ 6010/747X~~ ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
51	B16-3	7/10/18	13:40	S	1	X																	X	DS		
52	B17-0.5	↓	13:47	↓	↓	X												X			X		X			
53	B17-1.5		13:50			X																				
54	B17-3		13:55			X																				
55	B18-0.5		14:07			X												X			X		X			
56	B18-1.5		14:10			X																				
57	B18-3		14:15			X								X												
58	B19-0.5		14:32			X												X			X		X			
59	B19-1.5		14:33			X																				
60	B19-3		14:35			X																				

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E-C	7/11/18	1320
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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CHAIN-OF-CUSTODY RECORD

Date 7/10/18
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WO NO. / LAB USE ONLY: 0882

LABORATORY CLIENT: EFI Global
ADDRESS:
CITY: STATE: ZIP:
TEL: E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557 - Taft Charter High School
PROJECT CONTACT: Desi Salgado
GLOBAL ID: LOG CODE:
P.O. NO.:
LAB CONTACT OR QUOTE NO: Nowak - 965156/965159
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH cc (8015)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	~~Pesticides~~ (8081) OCPs	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
61	B20-0.5	7/10/18	14:41	S	1	X												X			X		X			
62	B20-1.5	↓	14:43	↓	↓	X																				
63	B20-3		14:45			X																				
64	TB-1			W	2		X							X												
65	EB-1		-	W		X	X					X		X				X	X		X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	7/11/18	1820
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		7/11/18	1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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WORK ORDER NUMBER: 18-07-0682

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI

DATE: 07/11/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2-8 °C (w/ CF): 2-3 °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: 804

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 804
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: _____

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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: (6) PS 7/11/18 **(Trip Blank Lot Number:** 1806293 **)**

Aqueous: ☐ VOA (3) ☑ VOA**h** ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☑ 250PB**n** (pH<2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB (2) ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (___) ☑ TerraCores® (3) ☑ 2oz II ☐ _____ ☐ _____

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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 826

Reviewed by: 70

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Hoaibao Nguyen

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Wednesday, August 22, 2018 11:41 AM
To: Stephen Nowak; Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Yes. Thanks.

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
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www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, August 22, 2018 11:39 AM
To: Salgado, Desi; Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0682

Desi- for lead analysis only, correct?

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Calscience

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are free from viruses. You need, however, to verify that this email and any attachments are free of viruses, as we can take no responsibility for any computer viruses, which might be transferred by way of this email. We may monitor all email communication through our networks. If you contact us by email, we may store your name and address to facilitate communication.

From: Salgado, Desi [mailto:Desi.Salgado@EFIGLOBAL.com]
Sent: Wednesday, August 22, 2018 9:56 AM
To: Hoaibao Nguyen
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Tina and Steve,

I would also like to request STLC analysis for the following samples:

B2-0.5
B4-0.5
B37-1.5

Standard TAT. Thanks.

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
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From: Hoaibao Nguyen [mailto:HoaibaoNguyen@eurofinsUS.com]
Sent: Friday, August 17, 2018 4:48 PM
To: Salgado, Desi
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

You're welcome! Have a great weekend!

Best Regards,

Hoaibao (Tina) Nguyen
Assistant Project Manager

Eurofins Calscience, LLC
P: +1 714 895 5494
Email: HoaibaoNguyen@EurofinsUS.com

From: Salgado, Desi [mailto:Desi.Salgado@EFIGLOBAL.com]
Sent: Friday, August 17, 2018 4:46 PM
To: Hoaibao Nguyen

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Hoaibao Nguyen

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Friday, August 17, 2018 4:31 PM
To: Hoaibao Nguyen
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

3-day TAT please. Thank you.

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
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efi global

From: Hoaibao Nguyen [mailto:HoaibaoNguyen@eurofinsUS.com]
Sent: Friday, August 17, 2018 2:57 PM
To: Salgado, Desi
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

Hi Desi,

Standard TAT?

Best Regards,

Hoaibao (Tina) Nguyen
Assistant Project Manager

Eurofins Calscience, LLC
P: +1 714 895 5494
Email: HoaibaoNguyen@EurofinsUS.com

From: Stephen Nowak
Sent: Friday, August 17, 2018 2:48 PM
To: Hoaibao Nguyen
Subject: FW: Taft Charter High School / ECI 18-07-0682

From: Salgado, Desi
Sent: Friday, August 17, 2018 2:48:06 PM (UTC-08:00) Pacific Time (US & Canada)
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

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Hoaibao Nguyen

From: Stephen Nowak
Sent: Friday, August 17, 2018 2:48 PM
To: Hoaibao Nguyen
Subject: FW: Taft Charter High School / ECI 18-07-0682

From: Salgado, Desi
Sent: Friday, August 17, 2018 2:48:06 PM (UTC-08:00) Pacific Time (US & Canada)
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Steve,

Please submit the following samples for analysis for arsenic by EPA 6020 and Title 22 metals by EPA 6010B/7471A:

B9-3
B11-3
B37-3
B42-3

These samples are from reports 18-07-0811 and -0682. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
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From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Friday, August 10, 2018 11:27 AM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0682

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Wednesday, July 25, 2018 1:03 PM
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Steve,

Please run samples B5-1.5 and B5-3 for OCPs by 8081A on 3 day TAT. Thanks.

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
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From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, July 24, 2018 3:24 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0682

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Calscience

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Thursday, July 26, 2018 12:55 PM
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

Steve,

I'd like to request lead STLC analysis for sample B37-0.5 and the following samples for arsenic by 6020 and Title 22 Metals by 6010B/7471A:

- B2-1.5
- B9-1.5
- B11-1.5
- B24-1.5
- B34-1.5
- B37-1.5
- B41-1.5
- B43-1.5
- B49-1.5

Please let me know if you have any questions. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, July 24, 2018 4:38 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0811

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way

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WORK ORDER NUMBER: 18-07-0811

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: Taft Charter High School

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 07/24/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-07-0811

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Work Order Narrative

Work Order: 18-07-0811 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/12/18. They were assigned to Work Order 18-07-0811.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0811
		Project Name:	Taft Charter High School
		PO Number:	
		Date/Time Received:	07/12/18 16:30
		Number of Containers:	109
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B21-0.5	18-07-0811-1	07/11/18 07:31	1	Solid
B21-0.5 DUP	18-07-0811-2	07/11/18 07:31	1	Solid
B21-1.5	18-07-0811-3	07/11/18 07:32	1	Solid
B21-3	18-07-0811-4	07/11/18 07:33	1	Solid
B22-0.5	18-07-0811-5	07/11/18 07:41	1	Solid
B22-0.5 DUP	18-07-0811-6	07/11/18 07:41	1	Solid
B22-1.5	18-07-0811-7	07/11/18 07:42	1	Solid
B22-3	18-07-0811-8	07/11/18 07:43	1	Solid
B23-0.5	18-07-0811-9	07/11/18 07:51	1	Solid
B23-0.5 DUP	18-07-0811-10	07/11/18 07:51	1	Solid
B23-1.5	18-07-0811-11	07/11/18 07:52	1	Solid
B23-3	18-07-0811-12	07/11/18 07:53	1	Solid
B24-0.5	18-07-0811-13	07/11/18 08:05	1	Solid
B24-0.5 DUP	18-07-0811-14	07/11/18 08:05	1	Solid
B24-1.5	18-07-0811-15	07/11/18 08:06	1	Solid
B24-3	18-07-0811-16	07/11/18 08:07	1	Solid
B25-0.5	18-07-0811-17	07/11/18 08:40	1	Solid
B25-0.5 DUP	18-07-0811-18	07/11/18 08:40	1	Solid
B25-1.5	18-07-0811-19	07/11/18 08:42	1	Solid
B25-3	18-07-0811-20	07/11/18 08:43	1	Solid
B26-0.5	18-07-0811-21	07/11/18 08:50	1	Solid
B26-0.5 DUP	18-07-0811-22	07/11/18 08:50	1	Solid
B26-1.5	18-07-0811-23	07/11/18 08:52	1	Solid
B26-3	18-07-0811-24	07/11/18 08:54	1	Solid
B27-0.5	18-07-0811-25	07/11/18 09:25	1	Solid
B27-1.5	18-07-0811-26	07/11/18 09:27	1	Solid
B27-3	18-07-0811-27	07/11/18 09:29	1	Solid
B28-0.5	18-07-0811-28	07/11/18 09:45	1	Solid
B28-1.5	18-07-0811-29	07/11/18 09:47	1	Solid
B28-3	18-07-0811-30	07/11/18 09:49	1	Solid
B29-0.5	18-07-0811-31	07/11/18 10:00	1	Solid
B29-1.5	18-07-0811-32	07/11/18 10:02	1	Solid
B29-3	18-07-0811-33	07/11/18 10:04	1	Solid
B30-0.5	18-07-0811-34	07/11/18 10:16	1	Solid
B30-1.5	18-07-0811-35	07/11/18 10:18	1	Solid
B30-3	18-07-0811-36	07/11/18 10:20	1	Solid
B31-0.5	18-07-0811-37	07/11/18 10:41	1	Solid
B31-0.5 DUP	18-07-0811-38	07/11/18 10:41	1	Solid
B31-1.5	18-07-0811-39	07/11/18 10:43	1	Solid
B31-3	18-07-0811-40	07/11/18 10:45	1	Solid
B32-0.5	18-07-0811-41	07/11/18 10:48	1	Solid
B32-01.5	18-07-0811-42	07/11/18 10:50	1	Solid

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0811
		Project Name:	Taft Charter High School
		PO Number:	
		Date/Time Received:	07/12/18 16:30
		Number of Containers:	109
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B32-3	18-07-0811-43	07/11/18 10:52	1	Solid
B33-0.5	18-07-0811-44	07/11/18 11:00	1	Solid
B33-1.5	18-07-0811-45	07/11/18 11:02	1	Solid
B33-3	18-07-0811-46	07/11/18 11:04	1	Solid
B34-0.5	18-07-0811-47	07/11/18 11:15	1	Solid
B34-0.5 DUP	18-07-0811-48	07/11/18 11:15	1	Solid
B34-1.5	18-07-0811-49	07/11/18 11:17	1	Solid
B34-3	18-07-0811-50	07/11/18 11:19	1	Solid
B35-0.5	18-07-0811-51	07/11/18 11:51	1	Solid
B35-0.5 DUP	18-07-0811-52	07/11/18 11:51	1	Solid
B35-1.5	18-07-0811-53	07/11/18 11:53	1	Solid
B35-3	18-07-0811-54	07/11/18 11:55	1	Solid
B36-0.5	18-07-0811-55	07/11/18 12:00	1	Solid
B36-1.5	18-07-0811-56	07/11/18 12:02	1	Solid
B36-3	18-07-0811-57	07/11/18 12:04	1	Solid
B37-0.5	18-07-0811-58	07/11/18 12:11	1	Solid
B37-0.5 DUP	18-07-0811-59	07/11/18 12:11	1	Solid
B37-1.5	18-07-0811-60	07/11/18 12:13	1	Solid
B37-3	18-07-0811-61	07/11/18 12:15	1	Solid
B38-0.5	18-07-0811-62	07/11/18 12:24	1	Solid
B38-1.5	18-07-0811-63	07/11/18 12:26	1	Solid
B38-3	18-07-0811-64	07/11/18 12:28	1	Solid
B39-0.5	18-07-0811-65	07/11/18 12:40	1	Solid
B39-0.5 DUP	18-07-0811-66	07/11/18 12:40	1	Solid
B39-1.5	18-07-0811-67	07/11/18 12:42	1	Solid
B39-3	18-07-0811-68	07/11/18 12:44	1	Solid
B40-0.5	18-07-0811-69	07/11/18 12:50	1	Solid
B40-1.5	18-07-0811-70	07/11/18 12:52	1	Solid
B40-3	18-07-0811-71	07/11/18 12:54	1	Solid
B41-0.5	18-07-0811-72	07/11/18 13:00	1	Solid
B41-1.5	18-07-0811-73	07/11/18 13:02	1	Solid
B41-3	18-07-0811-74	07/11/18 13:04	1	Solid
B42-0.5	18-07-0811-75	07/11/18 13:46	1	Solid
B42-1.5	18-07-0811-76	07/11/18 13:48	1	Solid
B42-3	18-07-0811-77	07/11/18 13:50	1	Solid
B43-0.5	18-07-0811-78	07/11/18 14:00	1	Solid
B43-1.5	18-07-0811-79	07/11/18 14:02	1	Solid
B43-3	18-07-0811-80	07/11/18 14:04	1	Solid
B44-0.5	18-07-0811-81	07/11/18 14:10	1	Solid
B44-1.5	18-07-0811-82	07/11/18 14:12	1	Solid
B44-3	18-07-0811-83	07/11/18 14:14	1	Solid
B45-0.5	18-07-0811-84	07/11/18 14:16	1	Solid

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0811
		Project Name:	Taft Charter High School
		PO Number:	
		Date/Time Received:	07/12/18 16:30
		Number of Containers:	109
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B45-0.5 DUP	18-07-0811-85	07/11/18 14:16	1	Solid
B45-1.5	18-07-0811-86	07/11/18 14:18	1	Solid
B45-3	18-07-0811-87	07/11/18 14:20	1	Solid
B46-0.5	18-07-0811-88	07/11/18 14:32	1	Solid
B46-1.5	18-07-0811-89	07/11/18 14:34	1	Solid
B46-3	18-07-0811-90	07/11/18 14:36	1	Solid
B47-0.5	18-07-0811-91	07/11/18 14:46	1	Solid
B47-0.5 DUP	18-07-0811-92	07/11/18 14:46	1	Solid
B47-1.5	18-07-0811-93	07/11/18 14:48	1	Solid
B47-3	18-07-0811-94	07/11/18 14:50	1	Solid
B48-0.5	18-07-0811-95	07/11/18 14:56	1	Solid
B48-1.5	18-07-0811-96	07/11/18 14:58	1	Solid
B48-3	18-07-0811-97	07/11/18 15:00	1	Solid
B49-0.5	18-07-0811-98	07/11/18 15:04	1	Solid
B49-1.5	18-07-0811-99	07/11/18 15:06	1	Solid
B49-3	18-07-0811-100	07/11/18 15:08	1	Solid
TB-2	18-07-0811-101	07/11/18 00:00	2	Aqueous
EB-2	18-07-0811-102	07/11/18 15:30	7	Aqueous

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B21-0.5 (18-07-0811-1)						
Barium	157		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.493		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.06		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.00		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	17.7		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	3.44		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.89		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.6		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.89		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	33.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	52.5		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	3.88		1.00	mg/kg	EPA 6020	EPA 3050B
B21-0.5 DUP (18-07-0811-2)						
Barium	187		0.526	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.520		0.263	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.05		0.526	mg/kg	EPA 6010B	EPA 3050B
Chromium	24.8		0.263	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.56		0.263	mg/kg	EPA 6010B	EPA 3050B
Copper	21.0		0.526	mg/kg	EPA 6010B	EPA 3050B
Lead	3.92		0.526	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.31		0.263	mg/kg	EPA 6010B	EPA 3050B
Nickel	23.7		0.263	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.1		0.263	mg/kg	EPA 6010B	EPA 3050B
Zinc	50.2		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.08		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B22-0.5 (18-07-0811-5)						
Barium	143		0.515	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.786		0.258	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.88		0.515	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.5		0.258	mg/kg	EPA 6010B	EPA 3050B
Cobalt	11.5		0.258	mg/kg	EPA 6010B	EPA 3050B
Copper	28.2		0.515	mg/kg	EPA 6010B	EPA 3050B
Lead	4.21		0.515	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.24		0.258	mg/kg	EPA 6010B	EPA 3050B
Nickel	55.8		0.258	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.47		0.773	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.5		0.258	mg/kg	EPA 6010B	EPA 3050B
Zinc	102		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.04		1.00	mg/kg	EPA 6020	EPA 3050B
B22-0.5 DUP (18-07-0811-6)						
Barium	177		0.488	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.492		0.244	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.91		0.488	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.5		0.244	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.10		0.244	mg/kg	EPA 6010B	EPA 3050B
Copper	18.6		0.488	mg/kg	EPA 6010B	EPA 3050B
Lead	3.74		0.488	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.95		0.244	mg/kg	EPA 6010B	EPA 3050B
Nickel	36.3		0.244	mg/kg	EPA 6010B	EPA 3050B
Vanadium	33.4		0.244	mg/kg	EPA 6010B	EPA 3050B
Zinc	62.1		0.976	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.41		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 3 of 21

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B23-0.5 (18-07-0811-9)						
Barium	155		0.513	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.442		0.256	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.11		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	24.1		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.58		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	24.1		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	6.29		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.45		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	25.4		0.256	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.43		0.769	mg/kg	EPA 6010B	EPA 3050B
Vanadium	33.4		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	62.1		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.43		1.00	mg/kg	EPA 6020	EPA 3050B
B23-0.5 DUP (18-07-0811-10)						
Barium	139		0.478	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.420		0.239	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.897		0.478	mg/kg	EPA 6010B	EPA 3050B
Chromium	24.6		0.239	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.17		0.239	mg/kg	EPA 6010B	EPA 3050B
Copper	26.2		0.478	mg/kg	EPA 6010B	EPA 3050B
Lead	38.7		0.478	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.81		0.239	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.1		0.239	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.40		0.718	mg/kg	EPA 6010B	EPA 3050B
Vanadium	29.9		0.239	mg/kg	EPA 6010B	EPA 3050B
Zinc	62.6		0.957	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.14		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 4 of 21

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B24-0.5 (18-07-0811-13)						
Barium	158		0.485	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.462		0.243	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.32		0.485	mg/kg	EPA 6010B	EPA 3050B
Chromium	30.4		0.243	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.91		0.243	mg/kg	EPA 6010B	EPA 3050B
Copper	43.2		0.485	mg/kg	EPA 6010B	EPA 3050B
Lead	4.20		0.485	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.91		0.243	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.4		0.243	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.09		0.728	mg/kg	EPA 6010B	EPA 3050B
Thallium	0.790		0.728	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.0		0.243	mg/kg	EPA 6010B	EPA 3050B
Zinc	81.7		0.971	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.13		1.00	mg/kg	EPA 6020	EPA 3050B
B24-0.5 DUP (18-07-0811-14)						
Barium	139		0.478	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.489		0.239	mg/kg	EPA 6010B	EPA 3050B
Chromium	27.3		0.239	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.52		0.239	mg/kg	EPA 6010B	EPA 3050B
Copper	23.6		0.478	mg/kg	EPA 6010B	EPA 3050B
Lead	4.57		0.478	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.85		0.239	mg/kg	EPA 6010B	EPA 3050B
Nickel	17.8		0.239	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.96		0.718	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.4		0.239	mg/kg	EPA 6010B	EPA 3050B
Zinc	64.0		0.957	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.98		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 5 of 21

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B25-0.5 (18-07-0811-17)						
Barium	156		0.513	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.507		0.256	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.62		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	27.9		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.63		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	30.0		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	7.06		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.40		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	40.0		0.256	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.23		0.769	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.6		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	73.5		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.93		1.00	mg/kg	EPA 6020	EPA 3050B
B25-0.5 DUP (18-07-0811-18)						
Barium	132		0.515	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.526		0.258	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.39		0.515	mg/kg	EPA 6010B	EPA 3050B
Chromium	27.0		0.258	mg/kg	EPA 6010B	EPA 3050B
Cobalt	15.0		0.258	mg/kg	EPA 6010B	EPA 3050B
Copper	31.4		0.515	mg/kg	EPA 6010B	EPA 3050B
Lead	4.66		0.515	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.64		0.258	mg/kg	EPA 6010B	EPA 3050B
Nickel	33.8		0.258	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.60		0.773	mg/kg	EPA 6010B	EPA 3050B
Vanadium	33.1		0.258	mg/kg	EPA 6010B	EPA 3050B
Zinc	70.0		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.02		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 6 of 21

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B26-0.5 (18-07-0811-21)						
Barium	153		0.483	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.506		0.242	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.30		0.483	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.7		0.242	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.20		0.242	mg/kg	EPA 6010B	EPA 3050B
Copper	17.7		0.483	mg/kg	EPA 6010B	EPA 3050B
Lead	4.97		0.483	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.92		0.242	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.3		0.242	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.1		0.242	mg/kg	EPA 6010B	EPA 3050B
Zinc	50.0		0.966	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.98		1.00	mg/kg	EPA 6020	EPA 3050B
B26-0.5 DUP (18-07-0811-22)						
Barium	159		0.518	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.476		0.259	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.29		0.518	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.0		0.259	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.74		0.259	mg/kg	EPA 6010B	EPA 3050B
Copper	16.6		0.518	mg/kg	EPA 6010B	EPA 3050B
Lead	4.48		0.518	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.53		0.259	mg/kg	EPA 6010B	EPA 3050B
Nickel	21.4		0.259	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.3		0.259	mg/kg	EPA 6010B	EPA 3050B
Zinc	46.6		1.04	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.92		1.00	mg/kg	EPA 6020	EPA 3050B
B27-0.5 (18-07-0811-25)						
Barium	142		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.491		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.26		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	19.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.18		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	17.1		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	4.23		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.84		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	20.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.2		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	55.7		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.19		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B28-0.5 (18-07-0811-28)						
Barium	161		0.521	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.496		0.260	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.46		0.521	mg/kg	EPA 6010B	EPA 3050B
Chromium	25.0		0.260	mg/kg	EPA 6010B	EPA 3050B
Cobalt	11.3		0.260	mg/kg	EPA 6010B	EPA 3050B
Copper	24.6		0.521	mg/kg	EPA 6010B	EPA 3050B
Lead	7.11		0.521	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.22		0.260	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.8		0.260	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.32		0.781	mg/kg	EPA 6010B	EPA 3050B
Vanadium	37.3		0.260	mg/kg	EPA 6010B	EPA 3050B
Zinc	67.8		1.04	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.78		1.00	mg/kg	EPA 6020	EPA 3050B
B29-0.5 (18-07-0811-31)						
Barium	187		0.515	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.489		0.258	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.32		0.515	mg/kg	EPA 6010B	EPA 3050B
Chromium	32.6		0.258	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.68		0.258	mg/kg	EPA 6010B	EPA 3050B
Copper	50.3		0.515	mg/kg	EPA 6010B	EPA 3050B
Lead	15.6		0.515	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.18		0.258	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.3		0.258	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.50		0.773	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.4		0.258	mg/kg	EPA 6010B	EPA 3050B
Zinc	111		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.34		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	14		4.9	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B30-0.5 (18-07-0811-34)						
Barium	143		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.421		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.699		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.5		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.77		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	44.5		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	4.84		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.54		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	25.0		0.254	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.31		0.761	mg/kg	EPA 6010B	EPA 3050B
Vanadium	33.3		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	82.4		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.30		1.00	mg/kg	EPA 6020	EPA 3050B
B31-0.5 (18-07-0811-37)						
Barium	101		0.488	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.269		0.244	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.564		0.488	mg/kg	EPA 6010B	EPA 3050B
Chromium	11.5		0.244	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.42		0.244	mg/kg	EPA 6010B	EPA 3050B
Copper	12.1		0.488	mg/kg	EPA 6010B	EPA 3050B
Lead	13.9		0.488	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.980		0.244	mg/kg	EPA 6010B	EPA 3050B
Nickel	14.6		0.244	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.807		0.732	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.4		0.244	mg/kg	EPA 6010B	EPA 3050B
Zinc	48.9		0.976	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.53		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B31-0.5 DUP (18-07-0811-38)						
Barium	139		0.524	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.487		0.262	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.57		0.524	mg/kg	EPA 6010B	EPA 3050B
Chromium	20.2		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.43		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	18.1		0.524	mg/kg	EPA 6010B	EPA 3050B
Lead	4.52		0.524	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.96		0.262	mg/kg	EPA 6010B	EPA 3050B
Nickel	23.2		0.262	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.72		0.785	mg/kg	EPA 6010B	EPA 3050B
Vanadium	44.3		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	49.8		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	3.91		1.00	mg/kg	EPA 6020	EPA 3050B
B32-0.5 (18-07-0811-41)						
Barium	129		0.524	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.551		0.262	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.38		0.524	mg/kg	EPA 6010B	EPA 3050B
Chromium	21.5		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.32		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	17.9		0.524	mg/kg	EPA 6010B	EPA 3050B
Lead	3.66		0.524	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.21		0.262	mg/kg	EPA 6010B	EPA 3050B
Nickel	21.8		0.262	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.47		0.785	mg/kg	EPA 6010B	EPA 3050B
Vanadium	45.4		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	49.0		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.64		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B33-0.5 (18-07-0811-44)						
Barium	140		0.513	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.544		0.256	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.958		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	19.3		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.00		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	23.0		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	8.72		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.56		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	20.7		0.256	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.14		0.769	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.5		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	53.1		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.73		1.00	mg/kg	EPA 6020	EPA 3050B
B34-0.5 (18-07-0811-47)						
Barium	69.8		0.526	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.373		0.263	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.972		0.526	mg/kg	EPA 6010B	EPA 3050B
Chromium	38.8		0.263	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.89		0.263	mg/kg	EPA 6010B	EPA 3050B
Copper	40.6		0.526	mg/kg	EPA 6010B	EPA 3050B
Lead	4.71		0.526	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	11.3		0.263	mg/kg	EPA 6010B	EPA 3050B
Nickel	41.1		0.263	mg/kg	EPA 6010B	EPA 3050B
Selenium	5.07		0.789	mg/kg	EPA 6010B	EPA 3050B
Silver	0.273		0.263	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.02		0.789	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.0		0.263	mg/kg	EPA 6010B	EPA 3050B
Zinc	91.9		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.08		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0827		0.0820	mg/kg	EPA 7471A	EPA 7471A Total

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B35-0.5 (18-07-0811-51)						
Barium	134		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.350		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.802		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	14.2		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.06		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	16.3		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	4.51		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.256		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.1		0.254	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.867		0.761	mg/kg	EPA 6010B	EPA 3050B
Vanadium	29.4		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	51.5		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	3.95		1.00	mg/kg	EPA 6020	EPA 3050B
B35-0.5 DUP (18-07-0811-52)						
Barium	196		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.467		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.08		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.4		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.57		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	16.8		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	4.12		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.357		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.8		0.253	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.6		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	60.2		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	3.27		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 12 of 21

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B36-0.5 (18-07-0811-55)						
Barium	142		0.515	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.363		0.258	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.610		0.515	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.7		0.258	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.93		0.258	mg/kg	EPA 6010B	EPA 3050B
Copper	52.4		0.515	mg/kg	EPA 6010B	EPA 3050B
Lead	7.00		0.515	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.06		0.258	mg/kg	EPA 6010B	EPA 3050B
Nickel	20.1		0.258	mg/kg	EPA 6010B	EPA 3050B
Selenium	11.1		0.773	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.9		0.258	mg/kg	EPA 6010B	EPA 3050B
Zinc	85.5		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.97		1.00	mg/kg	EPA 6020	EPA 3050B
B37-0.5 (18-07-0811-58)						
Barium	189		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.616		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.09		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.9		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	12.3		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	51.9		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	60.1		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.50		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	62.3		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.09		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	389		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	24.2		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0886		0.0877	mg/kg	EPA 7471A	EPA 7471A Total
Chlordane	61		49	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	31		4.9	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	9.5		4.9	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
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Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B37-0.5 DUP (18-07-0811-59)						
Barium	161		0.490	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.556		0.245	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.94		0.490	mg/kg	EPA 6010B	EPA 3050B
Chromium	31.7		0.245	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.5		0.245	mg/kg	EPA 6010B	EPA 3050B
Copper	49.5		0.490	mg/kg	EPA 6010B	EPA 3050B
Lead	56.8		0.490	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.18		0.245	mg/kg	EPA 6010B	EPA 3050B
Nickel	59.5		0.245	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.17		0.735	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.3		0.245	mg/kg	EPA 6010B	EPA 3050B
Zinc	374		0.980	mg/kg	EPA 6010B	EPA 3050B
Arsenic	20.2		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0836		0.0820	mg/kg	EPA 7471A	EPA 7471A Total
Chlordane	51		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	30		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	12		5.0	ug/kg	EPA 8081A	EPA 3545
B38-0.5 (18-07-0811-62)						
Barium	74.8		0.518	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.319		0.259	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.606		0.518	mg/kg	EPA 6010B	EPA 3050B
Chromium	39.5		0.259	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.10		0.259	mg/kg	EPA 6010B	EPA 3050B
Copper	51.3		0.518	mg/kg	EPA 6010B	EPA 3050B
Lead	4.86		0.518	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	10.9		0.259	mg/kg	EPA 6010B	EPA 3050B
Nickel	20.3		0.259	mg/kg	EPA 6010B	EPA 3050B
Selenium	5.50		0.777	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.9		0.259	mg/kg	EPA 6010B	EPA 3050B
Zinc	92.3		1.04	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.63		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B39-0.5 (18-07-0811-65)						
Barium	287		0.490	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.431		0.245	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.625		0.490	mg/kg	EPA 6010B	EPA 3050B
Chromium	25.4		0.245	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.90		0.245	mg/kg	EPA 6010B	EPA 3050B
Copper	22.6		0.490	mg/kg	EPA 6010B	EPA 3050B
Lead	8.29		0.490	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.23		0.245	mg/kg	EPA 6010B	EPA 3050B
Nickel	21.6		0.245	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.94		0.735	mg/kg	EPA 6010B	EPA 3050B
Vanadium	33.0		0.245	mg/kg	EPA 6010B	EPA 3050B
Zinc	64.1		0.980	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.05		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDT	14		5.0	ug/kg	EPA 8081A	EPA 3545
B39-0.5 DUP (18-07-0811-66)						
Barium	73.0		0.488	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.439		0.244	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.860		0.488	mg/kg	EPA 6010B	EPA 3050B
Chromium	44.8		0.244	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.33		0.244	mg/kg	EPA 6010B	EPA 3050B
Copper	50.9		0.488	mg/kg	EPA 6010B	EPA 3050B
Lead	3.86		0.488	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	11.3		0.244	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.1		0.244	mg/kg	EPA 6010B	EPA 3050B
Selenium	6.48		0.732	mg/kg	EPA 6010B	EPA 3050B
Vanadium	41.9		0.244	mg/kg	EPA 6010B	EPA 3050B
Zinc	81.9		0.976	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.99		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B40-0.5 (18-07-0811-69)						
Barium	222		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.414		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.828		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	22.8		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	16.3		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	24.8		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	15.0		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.583		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	23.8		0.248	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.18		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.4		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	79.1		0.990	mg/kg	EPA 6010B	EPA 3050B
Arsenic	3.00		1.00	mg/kg	EPA 6020	EPA 3050B
B40-1.5 (18-07-0811-70)						
Barium	229		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.469		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.780		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.9		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	13.5		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	26.1		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	29.0		0.493	mg/kg	EPA 6010B	EPA 3050B
Nickel	19.4		0.246	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.10		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.7		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	71.1		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.79		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDD	12		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	12		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	18		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B41-0.5 (18-07-0811-72)						
Barium	178		0.524	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.445		0.262	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.21		0.524	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.4		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.76		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	39.0		0.524	mg/kg	EPA 6010B	EPA 3050B
Lead	14.9		0.524	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.83		0.262	mg/kg	EPA 6010B	EPA 3050B
Nickel	32.4		0.262	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.51		0.785	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.7		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	121		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	12.6		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDD	8.3		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	140		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	8.7		5.0	ug/kg	EPA 8081A	EPA 3545
B41-1.5 (18-07-0811-73)						
Barium	500		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.529		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.842		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	38.7		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.58		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	41.1		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	6.88		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	9.79		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.1		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	6.44		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	46.3		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	126		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	11.3		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0838		0.0794	mg/kg	EPA 7471A	EPA 7471A Total
4,4'-DDE	8.0		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B42-0.5 (18-07-0811-75)						
Barium	104		0.485	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.398		0.243	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.33		0.485	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.3		0.243	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.28		0.243	mg/kg	EPA 6010B	EPA 3050B
Copper	32.8		0.485	mg/kg	EPA 6010B	EPA 3050B
Lead	24.4		0.485	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.79		0.243	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.2		0.243	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.833		0.728	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.4		0.243	mg/kg	EPA 6010B	EPA 3050B
Zinc	161		0.971	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.98		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	81		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDD	14		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	14		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	26		5.0	ug/kg	EPA 8081A	EPA 3545
B43-0.5 (18-07-0811-78)						
Barium	184		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.483		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.81		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	32.0		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.20		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	41.9		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	57.2		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.20		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.5		0.248	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.66		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.8		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	197		0.990	mg/kg	EPA 6010B	EPA 3050B
Arsenic	17.4		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	180		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	16		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	8.6		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B44-0.5 (18-07-0811-81)						
Barium	158		0.485	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.464		0.243	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.73		0.485	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.8		0.243	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.38		0.243	mg/kg	EPA 6010B	EPA 3050B
Copper	36.4		0.485	mg/kg	EPA 6010B	EPA 3050B
Lead	5.26		0.485	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.55		0.243	mg/kg	EPA 6010B	EPA 3050B
Nickel	39.8		0.243	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.31		0.728	mg/kg	EPA 6010B	EPA 3050B
Vanadium	37.4		0.243	mg/kg	EPA 6010B	EPA 3050B
Zinc	75.6		0.971	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.19		1.00	mg/kg	EPA 6020	EPA 3050B
B45-0.5 (18-07-0811-84)						
Barium	220		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.476		0.238	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.54		0.476	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.2		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.38		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	31.3		0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	13.3		0.476	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.30		0.238	mg/kg	EPA 6010B	EPA 3050B
Nickel	34.4		0.238	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.85		0.714	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.5		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	77.1		0.952	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.08		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 19 of 21

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B45-0.5 DUP (18-07-0811-85)						
Barium	213		0.526	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.501		0.263	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.56		0.526	mg/kg	EPA 6010B	EPA 3050B
Chromium	35.5		0.263	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.53		0.263	mg/kg	EPA 6010B	EPA 3050B
Copper	34.7		0.526	mg/kg	EPA 6010B	EPA 3050B
Lead	8.06		0.526	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.97		0.263	mg/kg	EPA 6010B	EPA 3050B
Nickel	37.6		0.263	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.88		0.789	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.9		0.263	mg/kg	EPA 6010B	EPA 3050B
Zinc	81.3		1.05	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.34		1.00	mg/kg	EPA 6020	EPA 3050B
B46-0.5 (18-07-0811-88)						
Barium	191		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.457		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.15		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.4		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.30		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	37.3		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	12.7		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.77		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	41.0		0.246	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.71		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.6		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	84.1		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.98		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 20 of 21

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B47-0.5 (18-07-0811-91)						
Barium	202		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.506		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.89		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	36.2		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.71		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	34.8		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	4.43		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.40		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.812		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	41.0		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	78.2		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.12		1.00	mg/kg	EPA 6020	EPA 3050B
B47-0.5 DUP (18-07-0811-92)						
Barium	183		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.489		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.12		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	38.3		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.49		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	34.3		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	4.09		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.87		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	34.8		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.97		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	45.1		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	78.4		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.34		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B48-0.5 (18-07-0811-95)						
Barium	159		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.373		0.238	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.980		0.476	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.6		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.20		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	31.2		0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	7.15		0.476	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.56		0.238	mg/kg	EPA 6010B	EPA 3050B
Nickel	28.9		0.238	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.13		0.714	mg/kg	EPA 6010B	EPA 3050B
Vanadium	34.0		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	69.7		0.952	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.98		1.00	mg/kg	EPA 6020	EPA 3050B
B49-0.5 (18-07-0811-98)						
Barium	182		0.481	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.382		0.240	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.732		0.481	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.7		0.240	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.01		0.240	mg/kg	EPA 6010B	EPA 3050B
Copper	40.2		0.481	mg/kg	EPA 6010B	EPA 3050B
Lead	6.35		0.481	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	10.2		0.240	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.1		0.240	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.36		0.721	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.6		0.240	mg/kg	EPA 6010B	EPA 3050B
Zinc	89.6		0.962	mg/kg	EPA 6010B	EPA 3050B
Arsenic	14.1		1.00	mg/kg	EPA 6020	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: Taft Charter High School			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-07-0811-102-F**	**07/11/18 15:30**	**Aqueous**	**GC 50**	**07/17/18**	**07/20/18 01:16**	**180717B03**

Parameter	Result	RL	DF	Qualifiers
C6	ND	100	1.00	
C7	ND	100	1.00	
C8	ND	100	1.00	
C9-C10	ND	100	1.00	
C11-C12	ND	100	1.00	
C13-C14	ND	100	1.00	
C15-C16	ND	100	1.00	
C17-C18	ND	100	1.00	
C19-C20	ND	100	1.00	
C21-C22	ND	100	1.00	
C23-C24	ND	100	1.00	
C25-C28	ND	100	1.00	
C29-C32	ND	100	1.00	
C33-C36	ND	100	1.00	
C37-C40	ND	100	1.00	
C41-C44	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	118	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
		Units:	ug/L
Project: Taft Charter High School			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	**099-15-498-620**	**N/A**	**Aqueous**	**GC 50**	**07/17/18**	**07/19/18 17:43**	**180717B03**

Parameter	Result	RL	DF	Qualifiers
C6	ND	100	1.00	
C7	ND	100	1.00	
C8	ND	100	1.00	
C9-C10	ND	100	1.00	
C11-C12	ND	100	1.00	
C13-C14	ND	100	1.00	
C15-C16	ND	100	1.00	
C17-C18	ND	100	1.00	
C19-C20	ND	100	1.00	
C21-C22	ND	100	1.00	
C23-C24	ND	100	1.00	
C25-C28	ND	100	1.00	
C29-C32	ND	100	1.00	
C33-C36	ND	100	1.00	
C37-C40	ND	100	1.00	
C41-C44	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B21-0.5	**18-07-0811-1-A**	**07/11/18 07:31**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:05**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	157	0.505	1.01	
Beryllium	0.493	0.253	1.01	
Cadmium	1.06	0.505	1.01	
Chromium	20.5	0.253	1.01	
Cobalt	8.00	0.253	1.01	
Copper	17.7	0.505	1.01	
Lead	3.44	0.505	1.01	
Molybdenum	2.89	0.253	1.01	
Nickel	22.6	0.253	1.01	
Selenium	1.89	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	33.7	0.253	1.01	
Zinc	52.5	1.01	1.01	

B21-0.5 DUP	**18-07-0811-2-A**	**07/11/18 07:31**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:06**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.789	1.05	
Barium	187	0.526	1.05	
Beryllium	0.520	0.263	1.05	
Cadmium	1.05	0.526	1.05	
Chromium	24.8	0.263	1.05	
Cobalt	5.56	0.263	1.05	
Copper	21.0	0.526	1.05	
Lead	3.92	0.526	1.05	
Molybdenum	2.31	0.263	1.05	
Nickel	23.7	0.263	1.05	
Selenium	ND	0.789	1.05	
Silver	ND	0.263	1.05	
Thallium	ND	0.789	1.05	
Vanadium	38.1	0.263	1.05	
Zinc	50.2	1.05	1.05	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B22-0.5	**18-07-0811-5-A**	**07/11/18 07:41**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:07**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Barium	143	0.515	1.03	
Beryllium	0.786	0.258	1.03	
Cadmium	1.88	0.515	1.03	
Chromium	28.5	0.258	1.03	
Cobalt	11.5	0.258	1.03	
Copper	28.2	0.515	1.03	
Lead	4.21	0.515	1.03	
Molybdenum	5.24	0.258	1.03	
Nickel	55.8	0.258	1.03	
Selenium	4.47	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	36.5	0.258	1.03	
Zinc	102	1.03	1.03	

B22-0.5 DUP	**18-07-0811-6-A**	**07/11/18 07:41**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:08**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Barium	177	0.488	0.976	
Beryllium	0.492	0.244	0.976	
Cadmium	1.91	0.488	0.976	
Chromium	20.5	0.244	0.976	
Cobalt	7.10	0.244	0.976	
Copper	18.6	0.488	0.976	
Lead	3.74	0.488	0.976	
Molybdenum	2.95	0.244	0.976	
Nickel	36.3	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	33.4	0.244	0.976	
Zinc	62.1	0.976	0.976	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 3 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B23-0.5	**18-07-0811-9-A**	**07/11/18 07:51**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:09**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Barium	155	0.513	1.03	
Beryllium	0.442	0.256	1.03	
Cadmium	1.11	0.513	1.03	
Chromium	24.1	0.256	1.03	
Cobalt	7.58	0.256	1.03	
Copper	24.1	0.513	1.03	
Lead	6.29	0.513	1.03	
Molybdenum	3.45	0.256	1.03	
Nickel	25.4	0.256	1.03	
Selenium	2.43	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	33.4	0.256	1.03	
Zinc	62.1	1.03	1.03	

B23-0.5 DUP	**18-07-0811-10-A**	**07/11/18 07:51**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:10**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.718	0.957	
Barium	139	0.478	0.957	
Beryllium	0.420	0.239	0.957	
Cadmium	0.897	0.478	0.957	
Chromium	24.6	0.239	0.957	
Cobalt	7.17	0.239	0.957	
Copper	26.2	0.478	0.957	
Lead	38.7	0.478	0.957	
Molybdenum	4.81	0.239	0.957	
Nickel	26.1	0.239	0.957	
Selenium	2.40	0.718	0.957	
Silver	ND	0.239	0.957	
Thallium	ND	0.718	0.957	
Vanadium	29.9	0.239	0.957	
Zinc	62.6	0.957	0.957	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 4 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B24-0.5	**18-07-0811-13-A**	**07/11/18 08:05**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:11**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Barium	158	0.485	0.971	
Beryllium	0.462	0.243	0.971	
Cadmium	1.32	0.485	0.971	
Chromium	30.4	0.243	0.971	
Cobalt	7.91	0.243	0.971	
Copper	43.2	0.485	0.971	
Lead	4.20	0.485	0.971	
Molybdenum	7.91	0.243	0.971	
Nickel	30.4	0.243	0.971	
Selenium	3.09	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	0.790	0.728	0.971	
Vanadium	35.0	0.243	0.971	
Zinc	81.7	0.971	0.971	

B24-0.5 DUP	**18-07-0811-14-A**	**07/11/18 08:05**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:12**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.718	0.957	
Barium	139	0.478	0.957	
Beryllium	0.489	0.239	0.957	
Cadmium	ND	0.478	0.957	
Chromium	27.3	0.239	0.957	
Cobalt	5.52	0.239	0.957	
Copper	23.6	0.478	0.957	
Lead	4.57	0.478	0.957	
Molybdenum	5.85	0.239	0.957	
Nickel	17.8	0.239	0.957	
Selenium	4.96	0.718	0.957	
Silver	ND	0.239	0.957	
Thallium	ND	0.718	0.957	
Vanadium	36.4	0.239	0.957	
Zinc	64.0	0.957	0.957	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 5 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B25-0.5	**18-07-0811-17-A**	**07/11/18 08:40**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:13**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Barium	156	0.513	1.03	
Beryllium	0.507	0.256	1.03	
Cadmium	1.62	0.513	1.03	
Chromium	27.9	0.256	1.03	
Cobalt	9.63	0.256	1.03	
Copper	30.0	0.513	1.03	
Lead	7.06	0.513	1.03	
Molybdenum	6.40	0.256	1.03	
Nickel	40.0	0.256	1.03	
Selenium	3.23	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	32.6	0.256	1.03	
Zinc	73.5	1.03	1.03	

B25-0.5 DUP	**18-07-0811-18-A**	**07/11/18 08:40**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:14**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Barium	132	0.515	1.03	
Beryllium	0.526	0.258	1.03	
Cadmium	1.39	0.515	1.03	
Chromium	27.0	0.258	1.03	
Cobalt	15.0	0.258	1.03	
Copper	31.4	0.515	1.03	
Lead	4.66	0.515	1.03	
Molybdenum	6.64	0.258	1.03	
Nickel	33.8	0.258	1.03	
Selenium	4.60	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	33.1	0.258	1.03	
Zinc	70.0	1.03	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 6 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B26-0.5	**18-07-0811-21-A**	**07/11/18 08:50**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:18**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Barium	153	0.483	0.966	
Beryllium	0.506	0.242	0.966	
Cadmium	1.30	0.483	0.966	
Chromium	20.7	0.242	0.966	
Cobalt	7.20	0.242	0.966	
Copper	17.7	0.483	0.966	
Lead	4.97	0.483	0.966	
Molybdenum	2.92	0.242	0.966	
Nickel	22.3	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	39.1	0.242	0.966	
Zinc	50.0	0.966	0.966	

B26-0.5 DUP	**18-07-0811-22-A**	**07/11/18 08:50**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:19**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.777	1.04	
Barium	159	0.518	1.04	
Beryllium	0.476	0.259	1.04	
Cadmium	1.29	0.518	1.04	
Chromium	20.0	0.259	1.04	
Cobalt	6.74	0.259	1.04	
Copper	16.6	0.518	1.04	
Lead	4.48	0.518	1.04	
Molybdenum	2.53	0.259	1.04	
Nickel	21.4	0.259	1.04	
Selenium	ND	0.777	1.04	
Silver	ND	0.259	1.04	
Thallium	ND	0.777	1.04	
Vanadium	36.3	0.259	1.04	
Zinc	46.6	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B27-0.5	**18-07-0811-25-A**	**07/11/18 09:25**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:20**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	142	0.505	1.01	
Beryllium	0.491	0.253	1.01	
Cadmium	1.26	0.505	1.01	
Chromium	19.7	0.253	1.01	
Cobalt	7.18	0.253	1.01	
Copper	17.1	0.505	1.01	
Lead	4.23	0.505	1.01	
Molybdenum	1.84	0.253	1.01	
Nickel	20.5	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	35.2	0.253	1.01	
Zinc	55.7	1.01	1.01	

B28-0.5	**18-07-0811-28-A**	**07/11/18 09:45**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:21**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Barium	161	0.521	1.04	
Beryllium	0.496	0.260	1.04	
Cadmium	1.46	0.521	1.04	
Chromium	25.0	0.260	1.04	
Cobalt	11.3	0.260	1.04	
Copper	24.6	0.521	1.04	
Lead	7.11	0.521	1.04	
Molybdenum	3.22	0.260	1.04	
Nickel	26.8	0.260	1.04	
Selenium	1.32	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	37.3	0.260	1.04	
Zinc	67.8	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 8 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B29-0.5	**18-07-0811-31-A**	**07/11/18 10:00**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:22**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Barium	187	0.515	1.03	
Beryllium	0.489	0.258	1.03	
Cadmium	1.32	0.515	1.03	
Chromium	32.6	0.258	1.03	
Cobalt	8.68	0.258	1.03	
Copper	50.3	0.515	1.03	
Lead	15.6	0.515	1.03	
Molybdenum	7.18	0.258	1.03	
Nickel	31.3	0.258	1.03	
Selenium	2.50	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	35.4	0.258	1.03	
Zinc	111	1.03	1.03	

B30-0.5	**18-07-0811-34-A**	**07/11/18 10:16**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:23**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Barium	143	0.508	1.02	
Beryllium	0.421	0.254	1.02	
Cadmium	0.699	0.508	1.02	
Chromium	33.5	0.254	1.02	
Cobalt	8.77	0.254	1.02	
Copper	44.5	0.508	1.02	
Lead	4.84	0.508	1.02	
Molybdenum	6.54	0.254	1.02	
Nickel	25.0	0.254	1.02	
Selenium	2.31	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	33.3	0.254	1.02	
Zinc	82.4	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B31-0.5	**18-07-0811-37-A**	**07/11/18 10:41**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:24**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Barium	101	0.488	0.976	
Beryllium	0.269	0.244	0.976	
Cadmium	0.564	0.488	0.976	
Chromium	11.5	0.244	0.976	
Cobalt	6.42	0.244	0.976	
Copper	12.1	0.488	0.976	
Lead	13.9	0.488	0.976	
Molybdenum	0.980	0.244	0.976	
Nickel	14.6	0.244	0.976	
Selenium	0.807	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	31.4	0.244	0.976	
Zinc	48.9	0.976	0.976	

B31-0.5 DUP	**18-07-0811-38-A**	**07/11/18 10:41**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:25**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Barium	139	0.524	1.05	
Beryllium	0.487	0.262	1.05	
Cadmium	1.57	0.524	1.05	
Chromium	20.2	0.262	1.05	
Cobalt	7.43	0.262	1.05	
Copper	18.1	0.524	1.05	
Lead	4.52	0.524	1.05	
Molybdenum	2.96	0.262	1.05	
Nickel	23.2	0.262	1.05	
Selenium	1.72	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	44.3	0.262	1.05	
Zinc	49.8	1.05	1.05	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B32-0.5	**18-07-0811-41-A**	**07/11/18 10:48**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:26**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Barium	129	0.524	1.05	
Beryllium	0.551	0.262	1.05	
Cadmium	1.38	0.524	1.05	
Chromium	21.5	0.262	1.05	
Cobalt	7.32	0.262	1.05	
Copper	17.9	0.524	1.05	
Lead	3.66	0.524	1.05	
Molybdenum	3.21	0.262	1.05	
Nickel	21.8	0.262	1.05	
Selenium	1.47	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	45.4	0.262	1.05	
Zinc	49.0	1.05	1.05	

B33-0.5	**18-07-0811-44-A**	**07/11/18 11:00**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:27**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Barium	140	0.513	1.03	
Beryllium	0.544	0.256	1.03	
Cadmium	0.958	0.513	1.03	
Chromium	19.3	0.256	1.03	
Cobalt	7.00	0.256	1.03	
Copper	23.0	0.513	1.03	
Lead	8.72	0.513	1.03	
Molybdenum	2.56	0.256	1.03	
Nickel	20.7	0.256	1.03	
Selenium	1.14	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	35.5	0.256	1.03	
Zinc	53.1	1.03	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 11 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B34-0.5	**18-07-0811-47-A**	**07/11/18 11:15**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:31**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.789	1.05	
Barium	69.8	0.526	1.05	
Beryllium	0.373	0.263	1.05	
Cadmium	0.972	0.526	1.05	
Chromium	38.8	0.263	1.05	
Cobalt	7.89	0.263	1.05	
Copper	40.6	0.526	1.05	
Lead	4.71	0.526	1.05	
Molybdenum	11.3	0.263	1.05	
Nickel	41.1	0.263	1.05	
Selenium	5.07	0.789	1.05	
Silver	0.273	0.263	1.05	
Thallium	1.02	0.789	1.05	
Vanadium	31.0	0.263	1.05	
Zinc	91.9	1.05	1.05	

B35-0.5	**18-07-0811-51-A**	**07/11/18 11:51**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:32**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Barium	134	0.508	1.02	
Beryllium	0.350	0.254	1.02	
Cadmium	0.802	0.508	1.02	
Chromium	14.2	0.254	1.02	
Cobalt	8.06	0.254	1.02	
Copper	16.3	0.508	1.02	
Lead	4.51	0.508	1.02	
Molybdenum	0.256	0.254	1.02	
Nickel	22.1	0.254	1.02	
Selenium	0.867	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	29.4	0.254	1.02	
Zinc	51.5	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 12 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B35-0.5 DUP	**18-07-0811-52-A**	**07/11/18 11:51**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:33**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	196	0.505	1.01	
Beryllium	0.467	0.253	1.01	
Cadmium	1.08	0.505	1.01	
Chromium	17.4	0.253	1.01	
Cobalt	7.57	0.253	1.01	
Copper	16.8	0.505	1.01	
Lead	4.12	0.505	1.01	
Molybdenum	0.357	0.253	1.01	
Nickel	30.8	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	31.6	0.253	1.01	
Zinc	60.2	1.01	1.01	

B36-0.5	**18-07-0811-55-A**	**07/11/18 12:00**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:34**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Barium	142	0.515	1.03	
Beryllium	0.363	0.258	1.03	
Cadmium	0.610	0.515	1.03	
Chromium	33.7	0.258	1.03	
Cobalt	7.93	0.258	1.03	
Copper	52.4	0.515	1.03	
Lead	7.00	0.515	1.03	
Molybdenum	3.06	0.258	1.03	
Nickel	20.1	0.258	1.03	
Selenium	11.1	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	31.9	0.258	1.03	
Zinc	85.5	1.03	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-0.5	**18-07-0811-58-A**	**07/11/18 12:11**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:35**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	189	0.505	1.01	
Beryllium	0.616	0.253	1.01	
Cadmium	2.09	0.505	1.01	
Chromium	34.9	0.253	1.01	
Cobalt	12.3	0.253	1.01	
Copper	51.9	0.505	1.01	
Lead	60.1	0.505	1.01	
Molybdenum	5.50	0.253	1.01	
Nickel	62.3	0.253	1.01	
Selenium	2.09	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	38.7	0.253	1.01	
Zinc	389	1.01	1.01	

B37-0.5 DUP	**18-07-0811-59-A**	**07/11/18 12:11**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:36**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Barium	161	0.490	0.980	
Beryllium	0.556	0.245	0.980	
Cadmium	1.94	0.490	0.980	
Chromium	31.7	0.245	0.980	
Cobalt	10.5	0.245	0.980	
Copper	49.5	0.490	0.980	
Lead	56.8	0.490	0.980	
Molybdenum	5.18	0.245	0.980	
Nickel	59.5	0.245	0.980	
Selenium	2.17	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	35.3	0.245	0.980	
Zinc	374	0.980	0.980	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 14 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B38-0.5	**18-07-0811-62-A**	**07/11/18 12:24**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:37**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.777	1.04	
Barium	74.8	0.518	1.04	
Beryllium	0.319	0.259	1.04	
Cadmium	0.606	0.518	1.04	
Chromium	39.5	0.259	1.04	
Cobalt	8.10	0.259	1.04	
Copper	51.3	0.518	1.04	
Lead	4.86	0.518	1.04	
Molybdenum	10.9	0.259	1.04	
Nickel	20.3	0.259	1.04	
Selenium	5.50	0.777	1.04	
Silver	ND	0.259	1.04	
Thallium	ND	0.777	1.04	
Vanadium	36.9	0.259	1.04	
Zinc	92.3	1.04	1.04	

B39-0.5	**18-07-0811-65-A**	**07/11/18 12:40**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:39**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Barium	287	0.490	0.980	
Beryllium	0.431	0.245	0.980	
Cadmium	0.625	0.490	0.980	
Chromium	25.4	0.245	0.980	
Cobalt	5.90	0.245	0.980	
Copper	22.6	0.490	0.980	
Lead	8.29	0.490	0.980	
Molybdenum	4.23	0.245	0.980	
Nickel	21.6	0.245	0.980	
Selenium	2.94	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	33.0	0.245	0.980	
Zinc	64.1	0.980	0.980	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B39-0.5 DUP	**18-07-0811-66-A**	**07/11/18 12:40**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:40**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Barium	73.0	0.488	0.976	
Beryllium	0.439	0.244	0.976	
Cadmium	0.860	0.488	0.976	
Chromium	44.8	0.244	0.976	
Cobalt	8.33	0.244	0.976	
Copper	50.9	0.488	0.976	
Lead	3.86	0.488	0.976	
Molybdenum	11.3	0.244	0.976	
Nickel	35.1	0.244	0.976	
Selenium	6.48	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	41.9	0.244	0.976	
Zinc	81.9	0.976	0.976	

B40-0.5	**18-07-0811-69-A**	**07/11/18 12:50**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:41**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	222	0.495	0.990	
Beryllium	0.414	0.248	0.990	
Cadmium	0.828	0.495	0.990	
Chromium	22.8	0.248	0.990	
Cobalt	16.3	0.248	0.990	
Copper	24.8	0.495	0.990	
Lead	15.0	0.495	0.990	
Molybdenum	0.583	0.248	0.990	
Nickel	23.8	0.248	0.990	
Selenium	3.18	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	36.4	0.248	0.990	
Zinc	79.1	0.990	0.990	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 16 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B40-1.5	**18-07-0811-70-A**	**07/11/18 12:52**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:52**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	229	0.493	0.985	
Beryllium	0.469	0.246	0.985	
Cadmium	0.780	0.493	0.985	
Chromium	18.9	0.246	0.985	
Cobalt	13.5	0.246	0.985	
Copper	26.1	0.493	0.985	
Lead	29.0	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	19.4	0.246	0.985	
Selenium	1.10	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	35.7	0.246	0.985	
Zinc	71.1	0.985	0.985	

B41-0.5	**18-07-0811-72-A**	**07/11/18 13:00**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:58**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Barium	178	0.524	1.05	
Beryllium	0.445	0.262	1.05	
Cadmium	1.21	0.524	1.05	
Chromium	33.4	0.262	1.05	
Cobalt	9.76	0.262	1.05	
Copper	39.0	0.524	1.05	
Lead	14.9	0.524	1.05	
Molybdenum	6.83	0.262	1.05	
Nickel	32.4	0.262	1.05	
Selenium	4.51	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	35.7	0.262	1.05	
Zinc	121	1.05	1.05	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41-1.5	**18-07-0811-73-A**	**07/11/18 13:02**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:59**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	500	0.498	0.995	
Beryllium	0.529	0.249	0.995	
Cadmium	0.842	0.498	0.995	
Chromium	38.7	0.249	0.995	
Cobalt	9.58	0.249	0.995	
Copper	41.1	0.498	0.995	
Lead	6.88	0.498	0.995	
Molybdenum	9.79	0.249	0.995	
Nickel	31.1	0.249	0.995	
Selenium	6.44	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	46.3	0.249	0.995	
Zinc	126	0.995	0.995	

B42-0.5	**18-07-0811-75-A**	**07/11/18 13:46**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:00**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Barium	104	0.485	0.971	
Beryllium	0.398	0.243	0.971	
Cadmium	1.33	0.485	0.971	
Chromium	28.3	0.243	0.971	
Cobalt	8.28	0.243	0.971	
Copper	32.8	0.485	0.971	
Lead	24.4	0.485	0.971	
Molybdenum	3.79	0.243	0.971	
Nickel	26.2	0.243	0.971	
Selenium	0.833	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	40.4	0.243	0.971	
Zinc	161	0.971	0.971	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B43-0.5	**18-07-0811-78-A**	**07/11/18 14:00**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:01**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	184	0.495	0.990	
Beryllium	0.483	0.248	0.990	
Cadmium	1.81	0.495	0.990	
Chromium	32.0	0.248	0.990	
Cobalt	9.20	0.248	0.990	
Copper	41.9	0.495	0.990	
Lead	57.2	0.495	0.990	
Molybdenum	3.20	0.248	0.990	
Nickel	29.5	0.248	0.990	
Selenium	1.66	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	39.8	0.248	0.990	
Zinc	197	0.990	0.990	

B44-0.5	**18-07-0811-81-A**	**07/11/18 14:10**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:02**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Barium	158	0.485	0.971	
Beryllium	0.464	0.243	0.971	
Cadmium	1.73	0.485	0.971	
Chromium	34.8	0.243	0.971	
Cobalt	7.38	0.243	0.971	
Copper	36.4	0.485	0.971	
Lead	5.26	0.485	0.971	
Molybdenum	6.55	0.243	0.971	
Nickel	39.8	0.243	0.971	
Selenium	1.31	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	37.4	0.243	0.971	
Zinc	75.6	0.971	0.971	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 19 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B45-0.5	**18-07-0811-84-A**	**07/11/18 14:16**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:03**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Barium	220	0.476	0.952	
Beryllium	0.476	0.238	0.952	
Cadmium	1.54	0.476	0.952	
Chromium	33.2	0.238	0.952	
Cobalt	8.38	0.238	0.952	
Copper	31.3	0.476	0.952	
Lead	13.3	0.476	0.952	
Molybdenum	4.30	0.238	0.952	
Nickel	34.4	0.238	0.952	
Selenium	2.85	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	39.5	0.238	0.952	
Zinc	77.1	0.952	0.952	

B45-0.5 DUP	**18-07-0811-85-A**	**07/11/18 14:16**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:04**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.789	1.05	
Barium	213	0.526	1.05	
Beryllium	0.501	0.263	1.05	
Cadmium	1.56	0.526	1.05	
Chromium	35.5	0.263	1.05	
Cobalt	8.53	0.263	1.05	
Copper	34.7	0.526	1.05	
Lead	8.06	0.526	1.05	
Molybdenum	4.97	0.263	1.05	
Nickel	37.6	0.263	1.05	
Selenium	2.88	0.789	1.05	
Silver	ND	0.263	1.05	
Thallium	ND	0.789	1.05	
Vanadium	39.9	0.263	1.05	
Zinc	81.3	1.05	1.05	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 20 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B46-0.5	**18-07-0811-88-A**	**07/11/18 14:32**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:05**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	191	0.493	0.985	
Beryllium	0.457	0.246	0.985	
Cadmium	2.15	0.493	0.985	
Chromium	33.4	0.246	0.985	
Cobalt	9.30	0.246	0.985	
Copper	37.3	0.493	0.985	
Lead	12.7	0.493	0.985	
Molybdenum	5.77	0.246	0.985	
Nickel	41.0	0.246	0.985	
Selenium	2.71	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	35.6	0.246	0.985	
Zinc	84.1	0.985	0.985	

B47-0.5	**18-07-0811-91-A**	**07/11/18 14:46**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:06**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	202	0.503	1.01	
Beryllium	0.506	0.251	1.01	
Cadmium	1.89	0.503	1.01	
Chromium	36.2	0.251	1.01	
Cobalt	7.71	0.251	1.01	
Copper	34.8	0.503	1.01	
Lead	4.43	0.503	1.01	
Molybdenum	5.40	0.251	1.01	
Nickel	35.5	0.251	1.01	
Selenium	0.812	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	41.0	0.251	1.01	
Zinc	78.2	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 21 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B47-0.5 DUP	**18-07-0811-92-A**	**07/11/18 14:46**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:10**	**180718L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	183	0.505	1.01	
Beryllium	0.489	0.253	1.01	
Cadmium	2.12	0.505	1.01	
Chromium	38.3	0.253	1.01	
Cobalt	7.49	0.253	1.01	
Copper	34.3	0.505	1.01	
Lead	4.09	0.505	1.01	
Molybdenum	5.87	0.253	1.01	
Nickel	34.8	0.253	1.01	
Selenium	1.97	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	45.1	0.253	1.01	
Zinc	78.4	1.01	1.01	

B48-0.5	**18-07-0811-95-A**	**07/11/18 14:56**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:11**	**180718L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Barium	159	0.476	0.952	
Beryllium	0.373	0.238	0.952	
Cadmium	0.980	0.476	0.952	
Chromium	33.6	0.238	0.952	
Cobalt	6.20	0.238	0.952	
Copper	31.2	0.476	0.952	
Lead	7.15	0.476	0.952	
Molybdenum	7.56	0.238	0.952	
Nickel	28.9	0.238	0.952	
Selenium	4.13	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	34.0	0.238	0.952	
Zinc	69.7	0.952	0.952	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 22 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49-0.5	**18-07-0811-98-A**	**07/11/18 15:04**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 18:12**	**180718L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Barium	182	0.481	0.962	
Beryllium	0.382	0.240	0.962	
Cadmium	0.732	0.481	0.962	
Chromium	34.7	0.240	0.962	
Cobalt	8.01	0.240	0.962	
Copper	40.2	0.481	0.962	
Lead	6.35	0.481	0.962	
Molybdenum	10.2	0.240	0.962	
Nickel	26.1	0.240	0.962	
Selenium	4.36	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	36.6	0.240	0.962	
Zinc	89.6	0.962	0.962	

Method Blank	**097-01-002-26643**	**N/A**	**Solid**	**ICP 7300**	**07/18/18**	**07/19/18 12:42**	**180718L05**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	ND	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	ND	0.248	0.990	
Cobalt	ND	0.248	0.990	
Copper	ND	0.495	0.990	
Lead	ND	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	ND	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	ND	0.248	0.990	
Zinc	ND	0.990	0.990	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 23 of 23

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-26662**	**N/A**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 16:50**	**180718L06**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	ND	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	ND	0.246	0.985	
Cobalt	ND	0.246	0.985	
Copper	ND	0.493	0.985	
Lead	ND	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	ND	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	ND	0.246	0.985	
Zinc	ND	0.985	0.985	

Method Blank	**097-01-002-26666**	**N/A**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 16:52**	**180718L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-07-0811-102-D**	**07/11/18 15:30**	**Aqueous**	**ICP 8300**	**07/18/18**	**07/23/18 18:51**	**180718LA2**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

Method Blank	**097-01-003-16973**	**N/A**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:42**	**180718LA2**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	0.0321	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3020A Total
		Method:	EPA 6020
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-07-0811-102-D**	**07/11/18 15:30**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 02:42**	**180718LA1A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	

Method Blank	**096-06-003-5945**	**N/A**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:03**	**180718LA1A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B21-0.5	**18-07-0811-1-A**	**07/11/18 07:31**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:05**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.88	1.00	1.00	

B21-0.5 DUP	**18-07-0811-2-A**	**07/11/18 07:31**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:30**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.08	1.00	1.00	

B22-0.5	**18-07-0811-5-A**	**07/11/18 07:41**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:34**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.04	1.00	1.00	

B22-0.5 DUP	**18-07-0811-6-A**	**07/11/18 07:41**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:38**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.41	1.00	1.00	

B23-0.5	**18-07-0811-9-A**	**07/11/18 07:51**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:42**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.43	1.00	1.00	

B23-0.5 DUP	**18-07-0811-10-A**	**07/11/18 07:51**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:58**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.14	1.00	1.00	

B24-0.5	**18-07-0811-13-A**	**07/11/18 08:05**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:02**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.13	1.00	1.00	

B24-0.5 DUP	**18-07-0811-14-A**	**07/11/18 08:05**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:06**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.98	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B25-0.5	**18-07-0811-17-A**	**07/11/18 08:40**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:10**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.93	1.00	1.00	

B25-0.5 DUP	**18-07-0811-18-A**	**07/11/18 08:40**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:14**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.02	1.00	1.00	

B26-0.5	**18-07-0811-21-A**	**07/11/18 08:50**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:18**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.98	1.00	1.00	

B26-0.5 DUP	**18-07-0811-22-A**	**07/11/18 08:50**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:23**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.92	1.00	1.00	

B27-0.5	**18-07-0811-25-A**	**07/11/18 09:25**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:27**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.19	1.00	1.00	

B28-0.5	**18-07-0811-28-A**	**07/11/18 09:45**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:31**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.78	1.00	1.00	

B29-0.5	**18-07-0811-31-A**	**07/11/18 10:00**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:35**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.34	1.00	1.00	

B30-0.5	**18-07-0811-34-A**	**07/11/18 10:16**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:51**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.30	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B31-0.5	**18-07-0811-37-A**	**07/11/18 10:41**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:55**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.53	1.00	1.00	

B31-0.5 DUP	**18-07-0811-38-A**	**07/11/18 10:41**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 06:59**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.91	1.00	1.00	

B32-0.5	**18-07-0811-41-A**	**07/11/18 10:48**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:03**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.64	1.00	1.00	

B33-0.5	**18-07-0811-44-A**	**07/11/18 11:00**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:07**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.73	1.00	1.00	

B34-0.5	**18-07-0811-47-A**	**07/11/18 11:15**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:25**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.08	1.00	1.00	

B35-0.5	**18-07-0811-51-A**	**07/11/18 11:51**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:11**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.95	1.00	1.00	

B35-0.5 DUP	**18-07-0811-52-A**	**07/11/18 11:51**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:16**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.27	1.00	1.00	

B36-0.5	**18-07-0811-55-A**	**07/11/18 12:00**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:20**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.97	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-0.5	**18-07-0811-58-A**	**07/11/18 12:11**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:24**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	24.2	1.00	1.00	

B37-0.5 DUP	**18-07-0811-59-A**	**07/11/18 12:11**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:28**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	20.2	1.00	1.00	

B38-0.5	**18-07-0811-62-A**	**07/11/18 12:24**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:44**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.63	1.00	1.00	

B39-0.5	**18-07-0811-65-A**	**07/11/18 12:40**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:48**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.05	1.00	1.00	

B39-0.5 DUP	**18-07-0811-66-A**	**07/11/18 12:40**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:52**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.99	1.00	1.00	

B40-0.5	**18-07-0811-69-A**	**07/11/18 12:50**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 07:56**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.00	1.00	1.00	

B40-1.5	**18-07-0811-70-A**	**07/11/18 12:52**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 08:00**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.79	1.00	1.00	

B41-0.5	**18-07-0811-72-A**	**07/11/18 13:00**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 08:05**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	12.6	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41-1.5	**18-07-0811-73-A**	**07/11/18 13:02**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 08:09**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	11.3	1.00	1.00	

B42-0.5	**18-07-0811-75-A**	**07/11/18 13:46**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 08:13**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.98	1.00	1.00	

B43-0.5	**18-07-0811-78-A**	**07/11/18 14:00**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 08:17**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	17.4	1.00	1.00	

B44-0.5	**18-07-0811-81-A**	**07/11/18 14:10**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 08:21**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.19	1.00	1.00	

B45-0.5	**18-07-0811-84-A**	**07/11/18 14:16**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 09:26**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.08	1.00	1.00	

B45-0.5 DUP	**18-07-0811-85-A**	**07/11/18 14:16**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 09:27**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.34	1.00	1.00	

B46-0.5	**18-07-0811-88-A**	**07/11/18 14:32**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 09:28**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.98	1.00	1.00	

B47-0.5	**18-07-0811-91-A**	**07/11/18 14:46**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 09:30**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.12	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B47-0.5 DUP	**18-07-0811-92-A**	**07/11/18 14:46**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 09:31**	**180718L01**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.34	1.00	1.00	

B48-0.5	**18-07-0811-95-A**	**07/11/18 14:56**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 09:32**	**180718L01**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.98	1.00	1.00	

B49-0.5	**18-07-0811-98-A**	**07/11/18 15:04**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 09:33**	**180718L01**

Parameter	Result	RL	DF	Qualifiers
Arsenic	14.1	1.00	1.00	

Method Blank	**099-15-621-1694**	**N/A**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/18/18 19:44**	**180718L01**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

Method Blank	**099-15-621-1692**	**N/A**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 03:35**	**180718L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

Method Blank	**099-15-621-1693**	**N/A**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 03:39**	**180718L04**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-07-0811-102-D**	**07/11/18 15:30**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 16:14**	**180719LA2**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

Method Blank	**099-04-008-8632**	**N/A**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 15:49**	**180719LA2**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B21-0.5	**18-07-0811-1-A**	**07/11/18 07:31**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:32**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

B21-0.5 DUP	**18-07-0811-2-A**	**07/11/18 07:31**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:39**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B22-0.5	**18-07-0811-5-A**	**07/11/18 07:41**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:41**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B22-0.5 DUP	**18-07-0811-6-A**	**07/11/18 07:41**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:43**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B23-0.5	**18-07-0811-9-A**	**07/11/18 07:51**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:46**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B23-0.5 DUP	**18-07-0811-10-A**	**07/11/18 07:51**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:48**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B24-0.5	**18-07-0811-13-A**	**07/11/18 08:05**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:55**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

B24-0.5 DUP	**18-07-0811-14-A**	**07/11/18 08:05**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:57**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B25-0.5	**18-07-0811-17-A**	**07/11/18 08:40**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:59**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B25-0.5 DUP	**18-07-0811-18-A**	**07/11/18 08:40**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:02**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B26-0.5	**18-07-0811-21-A**	**07/11/18 08:50**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:04**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B26-0.5 DUP	**18-07-0811-22-A**	**07/11/18 08:50**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:06**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B27-0.5	**18-07-0811-25-A**	**07/11/18 09:25**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:09**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B28-0.5	**18-07-0811-28-A**	**07/11/18 09:45**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:11**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B29-0.5	**18-07-0811-31-A**	**07/11/18 10:00**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:13**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B30-0.5	**18-07-0811-34-A**	**07/11/18 10:16**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:16**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B31-0.5	**18-07-0811-37-A**	**07/11/18 10:41**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:25**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B31-0.5 DUP	**18-07-0811-38-A**	**07/11/18 10:41**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:27**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B32-0.5	**18-07-0811-41-A**	**07/11/18 10:48**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:29**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B33-0.5	**18-07-0811-44-A**	**07/11/18 11:00**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 19:32**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B34-0.5	**18-07-0811-47-A**	**07/11/18 11:15**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:06**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0827	0.0820	1.00	

B35-0.5	**18-07-0811-51-A**	**07/11/18 11:51**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:30**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B35-0.5 DUP	**18-07-0811-52-A**	**07/11/18 11:51**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:32**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B36-0.5	**18-07-0811-55-A**	**07/11/18 12:00**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:34**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-0.5	**18-07-0811-58-A**	**07/11/18 12:11**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:36**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0886	0.0877	1.00	

B37-0.5 DUP	**18-07-0811-59-A**	**07/11/18 12:11**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:39**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0836	0.0820	1.00	

B38-0.5	**18-07-0811-62-A**	**07/11/18 12:24**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:41**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

B39-0.5	**18-07-0811-65-A**	**07/11/18 12:40**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:43**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B39-0.5 DUP	**18-07-0811-66-A**	**07/11/18 12:40**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:45**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B40-0.5	**18-07-0811-69-A**	**07/11/18 12:50**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:48**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B40-1.5	**18-07-0811-70-A**	**07/11/18 12:52**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:55**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B41-0.5	**18-07-0811-72-A**	**07/11/18 13:00**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:57**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41-1.5	**18-07-0811-73-A**	**07/11/18 13:02**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:59**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0838	0.0794	1.00	

B42-0.5	**18-07-0811-75-A**	**07/11/18 13:46**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:01**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B43-0.5	**18-07-0811-78-A**	**07/11/18 14:00**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:04**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B44-0.5	**18-07-0811-81-A**	**07/11/18 14:10**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:06**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B45-0.5	**18-07-0811-84-A**	**07/11/18 14:16**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:08**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B45-0.5 DUP	**18-07-0811-85-A**	**07/11/18 14:16**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:10**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

B46-0.5	**18-07-0811-88-A**	**07/11/18 14:32**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:13**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B47-0.5	**18-07-0811-91-A**	**07/11/18 14:46**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:15**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B47-0.5 DUP	**18-07-0811-92-A**	**07/11/18 14:46**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:26**	**180719L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B48-0.5	**18-07-0811-95-A**	**07/11/18 14:56**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:22**	**180719L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B49-0.5	**18-07-0811-98-A**	**07/11/18 15:04**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 20:24**	**180719L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

Method Blank	**099-16-272-3984**	**N/A**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 16:21**	**180719L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Method Blank	**099-16-272-3986**	**N/A**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:27**	**180719L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Method Blank	**099-16-272-3985**	**N/A**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:02**	**180719L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 1 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B21-0.5	**18-07-0811-1-A**	**07/11/18 07:31**	**Solid**	**GC 44**	**07/20/18**	**07/24/18 09:54**	**180720L08**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 2 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B21-0.5 DUP	**18-07-0811-2-A**	**07/11/18 07:31**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 06:24**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 3 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B22-0.5	**18-07-0811-5-A**	**07/11/18 07:41**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 10:25**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	24-168	
2,4,5,6-Tetrachloro-m-Xylene	87	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 4 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B22-0.5 DUP	**18-07-0811-6-A**	**07/11/18 07:41**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 06:38**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 5 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B23-0.5	**18-07-0811-9-A**	**07/11/18 07:51**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 06:52**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 6 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B23-0.5 DUP	**18-07-0811-10-A**	**07/11/18 07:51**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 07:06**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 7 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B24-0.5	**18-07-0811-13-A**	**07/11/18 08:05**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 07:21**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 8 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B24-0.5 DUP	**18-07-0811-14-A**	**07/11/18 08:05**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 07:35**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	69	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 9 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B25-0.5	**18-07-0811-17-A**	**07/11/18 08:40**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 07:49**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 10 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B25-0.5 DUP	**18-07-0811-18-A**	**07/11/18 08:40**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 08:03**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	50	24-168	
2,4,5,6-Tetrachloro-m-Xylene	45	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 11 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B26-0.5	**18-07-0811-21-A**	**07/11/18 08:50**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 08:18**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 12 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B26-0.5 DUP	**18-07-0811-22-A**	**07/11/18 08:50**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 08:32**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 13 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B27-0.5	**18-07-0811-25-A**	**07/11/18 09:25**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 08:46**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 14 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B28-0.5	**18-07-0811-28-A**	**07/11/18 09:45**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 09:00**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	40	24-168	
2,4,5,6-Tetrachloro-m-Xylene	28	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 15 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B29-0.5	**18-07-0811-31-A**	**07/11/18 10:00**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 09:14**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	14	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	24-168	
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 16 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B30-0.5	**18-07-0811-34-A**	**07/11/18 10:16**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 09:28**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 17 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B31-0.5	**18-07-0811-37-A**	**07/11/18 10:41**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 12:00**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 18 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B31-0.5 DUP	**18-07-0811-38-A**	**07/11/18 10:41**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 09:42**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	71	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 19 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B32-0.5	**18-07-0811-41-A**	**07/11/18 10:48**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 09:56**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	73	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 20 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B33-0.5	**18-07-0811-44-A**	**07/11/18 11:00**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 12:15**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 21 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B34-0.5	**18-07-0811-47-A**	**07/11/18 11:15**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 12:29**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 22 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B35-0.5	**18-07-0811-51-A**	**07/11/18 11:51**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 12:43**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 23 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B35-0.5 DUP	**18-07-0811-52-A**	**07/11/18 11:51**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 12:58**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	92	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 24 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B36-0.5	**18-07-0811-55-A**	**07/11/18 12:00**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 13:12**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 25 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-0.5	**18-07-0811-58-A**	**07/11/18 12:11**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 13:26**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	61	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	31	4.9	1.00	
4,4'-DDT	9.5	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 26 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-0.5 DUP	**18-07-0811-59-A**	**07/11/18 12:11**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 13:40**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	51	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	30	5.0	1.00	
4,4'-DDT	12	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	126	24-168	
2,4,5,6-Tetrachloro-m-Xylene	132	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 27 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B38-0.5	**18-07-0811-62-A**	**07/11/18 12:24**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 13:55**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	24-168	
2,4,5,6-Tetrachloro-m-Xylene	0	25-145	2,6

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 28 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B39-0.5	**18-07-0811-65-A**	**07/11/18 12:40**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 14:09**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	14	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 29 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B39-0.5 DUP	**18-07-0811-66-A**	**07/11/18 12:40**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 14:23**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	72	24-168	
2,4,5,6-Tetrachloro-m-Xylene	71	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 30 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B40-0.5	**18-07-0811-69-A**	**07/11/18 12:50**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 14:37**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 31 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B40-1.5	**18-07-0811-70-A**	**07/11/18 12:52**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 14:52**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	12	5.0	1.00	
4,4'-DDE	12	5.0	1.00	
4,4'-DDT	18	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 32 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41-0.5	**18-07-0811-72-A**	**07/11/18 13:00**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 15:06**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	8.3	5.0	1.00	
4,4'-DDT	8.7	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

B41-0.5	**18-07-0811-72-A**	**07/11/18 13:00**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 19:17**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	140	50	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 33 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41-1.5	**18-07-0811-73-A**	**07/11/18 13:02**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 15:20**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	8.0	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	24-168	
2,4,5,6-Tetrachloro-m-Xylene	71	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 34 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B42-0.5	**18-07-0811-75-A**	**07/11/18 13:46**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 15:34**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	81	50	1.00	
4,4'-DDD	14	5.0	1.00	
4,4'-DDE	14	5.0	1.00	
4,4'-DDT	26	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	159	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 35 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B43-0.5	**18-07-0811-78-A**	**07/11/18 14:00**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 15:49**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	180	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	16	5.0	1.00	
4,4'-DDT	8.6	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	73	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 36 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B44-0.5	**18-07-0811-81-A**	**07/11/18 14:10**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 16:03**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 37 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B45-0.5	**18-07-0811-84-A**	**07/11/18 14:16**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 16:17**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 38 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B45-0.5 DUP	**18-07-0811-85-A**	**07/11/18 14:16**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 16:31**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 39 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B46-0.5	**18-07-0811-88-A**	**07/11/18 14:32**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 18:20**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 40 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B47-0.5	**18-07-0811-91-A**	**07/11/18 14:46**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 15:39**	**180716L14**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 41 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B47-0.5 DUP	**18-07-0811-92-A**	**07/11/18 14:46**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 16:39**	**180716L14**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 42 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B48-0.5	**18-07-0811-95-A**	**07/11/18 14:56**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 16:53**	**180716L14**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 43 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49-0.5	**18-07-0811-98-A**	**07/11/18 15:04**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 17:08**	**180716L14**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	78	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 44 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2987**	**N/A**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 02:22**	**180716L02**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	104	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 45 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2988**	**N/A**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 02:50**	**180716L03**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	103	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 46 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2982**	**N/A**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 14:28**	**180716L14**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Taft Charter High School			Page 47 of 47

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2989**	**N/A**	**Solid**	**GC 44**	**07/20/18**	**07/23/18 11:06**	**180720L08**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: Taft Charter High School			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-07-0811-102-G**	**07/11/18 15:30**	**Aqueous**	**GC 44**	**07/13/18**	**07/17/18 07:16**	**180713L12**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.094	1.00	
Gamma-BHC	ND	0.094	1.00	
Beta-BHC	ND	0.094	1.00	
Heptachlor	ND	0.094	1.00	
Delta-BHC	ND	0.094	1.00	
Aldrin	ND	0.094	1.00	
Heptachlor Epoxide	ND	0.094	1.00	
Endosulfan I	ND	0.094	1.00	
Dieldrin	ND	0.094	1.00	
4,4'-DDE	ND	0.094	1.00	
Endrin	ND	0.094	1.00	
Endrin Aldehyde	ND	0.094	1.00	
4,4'-DDD	ND	0.094	1.00	
Endosulfan II	ND	0.094	1.00	
4,4'-DDT	ND	0.094	1.00	
Endosulfan Sulfate	ND	0.094	1.00	
Methoxychlor	ND	0.094	1.00	
Chlordane	ND	0.94	1.00	
Toxaphene	ND	1.9	1.00	
Endrin Ketone	ND	0.094	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	114	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: Taft Charter High School			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	**099-12-529-1038**	**N/A**	**Aqueous**	**GC 44**	**07/13/18**	**07/17/18 05:22**	**180713L12**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.10	1.00	
Gamma-BHC	ND	0.10	1.00	
Beta-BHC	ND	0.10	1.00	
Heptachlor	ND	0.10	1.00	
Delta-BHC	ND	0.10	1.00	
Aldrin	ND	0.10	1.00	
Heptachlor Epoxide	ND	0.10	1.00	
Endosulfan I	ND	0.10	1.00	
Dieldrin	ND	0.10	1.00	
4,4'-DDE	ND	0.10	1.00	
Endrin	ND	0.10	1.00	
Endrin Aldehyde	ND	0.10	1.00	
4,4'-DDD	ND	0.10	1.00	
Endosulfan II	ND	0.10	1.00	
4,4'-DDT	ND	0.10	1.00	
Endosulfan Sulfate	ND	0.10	1.00	
Methoxychlor	ND	0.10	1.00	
Chlordane	ND	1.0	1.00	
Toxaphene	ND	2.0	1.00	
Endrin Ketone	ND	0.10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	50-135	
2,4,5,6-Tetrachloro-m-Xylene	108	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: Taft Charter High School			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B21-0.5	**18-07-0811-1-A**	**07/11/18 07:31**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 19:34**	**180717L09**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

B26-0.5	**18-07-0811-21-A**	**07/11/18 08:50**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 19:52**	**180717L09**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	49	1.00	
Aroclor-1221	ND	49	1.00	
Aroclor-1232	ND	49	1.00	
Aroclor-1242	ND	49	1.00	
Aroclor-1248	ND	49	1.00	
Aroclor-1254	ND	49	1.00	
Aroclor-1260	ND	49	1.00	
Aroclor-1262	ND	49	1.00	
Aroclor-1268	ND	49	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: Taft Charter High School			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B32-0.5	**18-07-0811-41-A**	**07/11/18 10:48**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 20:28**	**180717L09**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

B38-0.5	**18-07-0811-62-A**	**07/11/18 12:24**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 20:46**	**180717L09**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	49	1.00	
Aroclor-1221	ND	49	1.00	
Aroclor-1232	ND	49	1.00	
Aroclor-1242	ND	49	1.00	
Aroclor-1248	ND	49	1.00	
Aroclor-1254	ND	49	1.00	
Aroclor-1260	ND	49	1.00	
Aroclor-1262	ND	49	1.00	
Aroclor-1268	ND	49	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	24-168	
2,4,5,6-Tetrachloro-m-Xylene	100	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: Taft Charter High School			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	**099-12-535-4759**	**N/A**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 15:22**	**180717L09**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8082
		Units:	ug/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-07-0811-102-G**	**07/11/18 15:30**	**Aqueous**	**GC 66**	**07/13/18**	**07/16/18 21:44**	**180713L12**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	0.94	1.00	
Aroclor-1221	ND	0.94	1.00	
Aroclor-1232	ND	0.94	1.00	
Aroclor-1242	ND	0.94	1.00	
Aroclor-1248	ND	0.94	1.00	
Aroclor-1254	ND	0.94	1.00	
Aroclor-1260	ND	0.94	1.00	
Aroclor-1262	ND	0.94	1.00	
Aroclor-1268	ND	0.94	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	50-135	
2,4,5,6-Tetrachloro-m-Xylene	99	50-135	

Method Blank	**099-12-533-1414**	**N/A**	**Aqueous**	**GC 66**	**07/13/18**	**07/16/18 20:50**	**180713L12**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	1.0	1.00	
Aroclor-1221	ND	1.0	1.00	
Aroclor-1232	ND	1.0	1.00	
Aroclor-1242	ND	1.0	1.00	
Aroclor-1248	ND	1.0	1.00	
Aroclor-1254	ND	1.0	1.00	
Aroclor-1260	ND	1.0	1.00	
Aroclor-1262	ND	1.0	1.00	
Aroclor-1268	ND	1.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	68	50-135	
2,4,5,6-Tetrachloro-m-Xylene	59	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-2	**18-07-0811-101-B**	**07/11/18 00:00**	**Aqueous**	**GC/MS Z**	**07/17/18**	**07/17/18 17:49**	**180717L021**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
1,1-Dichloropropene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Butanone	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
4-Chlorotoluene	ND	1.0	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
Carbon Disulfide	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 2 of 12

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
Dibromochloromethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Ethylbenzene	ND	1.0	1.00	
Isopropylbenzene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
Naphthalene	ND	10	1.00	
Styrene	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
n-Butylbenzene	ND	1.0	1.00	
n-Propylbenzene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
tert-Butylbenzene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 3 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	77-120	
Dibromofluoromethane	110	80-128	
1,2-Dichloroethane-d4	117	80-129	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 4 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-2	**18-07-0811-102-A**	**07/11/18 15:30**	**Aqueous**	**GC/MS Z**	**07/16/18**	**07/16/18 21:10**	**180716L033**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
1,1-Dichloropropene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Butanone	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
4-Chlorotoluene	ND	1.0	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
Carbon Disulfide	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 5 of 12

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
Dibromochloromethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Ethylbenzene	ND	1.0	1.00	
Isopropylbenzene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
Naphthalene	ND	10	1.00	
Styrene	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
n-Butylbenzene	ND	1.0	1.00	
n-Propylbenzene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
tert-Butylbenzene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.	Date Received:	07/12/18
5261 West Imperial Highway	Work Order:	18-07-0811
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Taft Charter High School		Page 6 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	77-120	
Dibromofluoromethane	111	80-128	
1,2-Dichloroethane-d4	119	80-129	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-26442**	**N/A**	**Aqueous**	**GC/MS Z**	**07/16/18**	**07/16/18 17:15**	**180716L033**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
1,1-Dichloropropene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Butanone	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
4-Chlorotoluene	ND	1.0	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
Carbon Disulfide	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 8 of 12

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
Dibromochloromethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Ethylbenzene	ND	1.0	1.00	
Isopropylbenzene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
Naphthalene	ND	10	1.00	
Styrene	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
n-Butylbenzene	ND	1.0	1.00	
n-Propylbenzene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
tert-Butylbenzene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 9 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	77-120	
Dibromofluoromethane	105	80-128	
1,2-Dichloroethane-d4	115	80-129	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 10 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-26441**	**N/A**	**Aqueous**	**GC/MS Z**	**07/17/18**	**07/17/18 17:20**	**180717L021**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
1,1-Dichloropropene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Butanone	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
4-Chlorotoluene	ND	1.0	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
Carbon Disulfide	ND	10	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: Taft Charter High School			Page 11 of 12

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
Dibromochloromethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Ethylbenzene	ND	1.0	1.00	
Isopropylbenzene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
Naphthalene	ND	10	1.00	
Styrene	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
n-Butylbenzene	ND	1.0	1.00	
n-Propylbenzene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
tert-Butylbenzene	ND	1.0	1.00	
p/m-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.	Date Received:	07/12/18
5261 West Imperial Highway	Work Order:	18-07-0811
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: Taft Charter High School		Page 12 of 12

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	77-120	
Dibromofluoromethane	106	80-128	
1,2-Dichloroethane-d4	112	80-129	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1266-1	**Sample**	**Solid**	**ICP 7300**	**07/18/18**	**07/19/18 12:15**	**180718S05**
18-07-1266-1	**Matrix Spike**	**Solid**	**ICP 7300**	**07/18/18**	**07/19/18 12:14**	**180718S05**
18-07-1266-1	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**07/18/18**	**07/19/18 12:14**	**180718S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	4.812	19	2.704	11	50-115	56	0-20	3,4
Barium	121.1	25.00	156.3	4X	150.6	4X	75-125	4X	0-20	Q
Beryllium	0.5686	25.00	27.78	109	25.62	100	75-125	8	0-20	
Cadmium	0.5967	25.00	25.21	98	23.31	91	75-125	8	0-20	
Chromium	15.14	25.00	40.69	102	39.13	96	75-125	4	0-20	
Cobalt	8.833	25.00	34.27	102	30.12	85	75-125	13	0-20	
Copper	20.07	25.00	46.67	106	43.76	95	75-125	6	0-20	
Lead	7.250	25.00	34.25	108	31.75	98	75-125	8	0-20	
Molybdenum	3.125	25.00	27.65	98	24.39	85	75-125	13	0-20	
Nickel	14.74	25.00	40.87	105	36.24	86	75-125	12	0-20	
Selenium	ND	25.00	22.82	91	22.78	91	75-125	0	0-20	
Silver	ND	12.50	15.16	121	13.37	107	75-125	13	0-20	
Thallium	ND	25.00	23.24	93	17.43	70	75-125	29	0-20	3,4
Vanadium	37.97	25.00	65.32	109	62.12	97	75-125	5	0-20	
Zinc	61.75	25.00	91.60	119	82.79	84	75-125	10	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B21-0.5	**Sample**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:05**	**180718S06**
B21-0.5	**Matrix Spike**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 16:57**	**180718S06**
B21-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 16:58**	**180718S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.011	20	5.522	22	50-115	10	0-20	3
Barium	157.5	25.00	361.2	4X	374.7	4X	75-125	4X	0-20	Q
Beryllium	0.4931	25.00	24.98	98	25.17	99	75-125	1	0-20	
Cadmium	1.055	25.00	24.92	95	25.51	98	75-125	2	0-20	
Chromium	20.48	25.00	45.61	101	46.87	106	75-125	3	0-20	
Cobalt	7.999	25.00	31.90	96	32.61	98	75-125	2	0-20	
Copper	17.71	25.00	52.04	137	53.43	143	75-125	3	0-20	3
Lead	3.438	25.00	27.13	95	27.00	94	75-125	0	0-20	
Molybdenum	2.894	25.00	24.09	85	24.53	87	75-125	2	0-20	
Nickel	22.64	25.00	49.60	108	50.82	113	75-125	2	0-20	
Selenium	1.886	25.00	27.35	102	27.88	104	75-125	2	0-20	
Silver	ND	12.50	13.63	109	13.88	111	75-125	2	0-20	
Thallium	ND	25.00	22.44	90	22.46	90	75-125	0	0-20	
Vanadium	33.74	25.00	54.82	84	56.29	90	75-125	3	0-20	
Zinc	52.49	25.00	80.38	112	82.01	118	75-125	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 3 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B34-0.5	**Sample**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:31**	**180718S07**
B34-0.5	**Matrix Spike**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 16:59**	**180718S07**
B34-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 17:00**	**180718S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	6.349	25	5.245	21	50-115	19	0-20	3
Barium	69.80	25.00	98.96	117	92.32	90	75-125	7	0-20	
Beryllium	0.3731	25.00	27.82	110	25.99	102	75-125	7	0-20	
Cadmium	0.9717	25.00	28.17	109	26.51	102	75-125	6	0-20	
Chromium	38.80	25.00	70.00	125	65.25	106	75-125	7	0-20	
Cobalt	7.888	25.00	38.75	123	36.30	114	75-125	7	0-20	
Copper	40.62	25.00	79.72	156	74.66	136	75-125	7	0-20	3
Lead	4.708	25.00	30.70	104	28.77	96	75-125	7	0-20	
Molybdenum	11.29	25.00	33.98	91	31.53	81	75-125	7	0-20	
Nickel	41.08	25.00	79.35	153	74.98	136	75-125	6	0-20	3
Selenium	5.068	25.00	33.56	114	31.85	107	75-125	5	0-20	
Silver	0.2735	12.50	13.66	107	12.88	101	75-125	6	0-20	
Thallium	1.016	25.00	23.22	89	23.36	89	75-125	1	0-20	
Vanadium	30.95	25.00	52.99	88	49.73	75	75-125	6	0-20	
Zinc	91.87	25.00	136.5	178	127.7	143	75-125	7	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Taft Charter High School			Page 4 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0849-1	**Sample**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:47**	**180718SA2**
18-07-0849-1	**Matrix Spike**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:47**	**180718SA2**
18-07-0849-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:50**	**180718SA2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	0.01690	0.5000	0.4762	92	0.4752	92	72-132	0	0-10	
Barium	0.06124	0.5000	0.5863	105	0.5764	103	87-123	2	0-6	
Beryllium	ND	0.5000	0.5243	105	0.5056	101	89-119	4	0-8	
Cadmium	ND	0.5000	0.5190	104	0.5143	103	82-124	1	0-7	
Chromium	ND	0.5000	0.5312	106	0.5066	101	86-122	5	0-8	
Cobalt	ND	0.5000	0.5353	107	0.5300	106	83-125	1	0-7	
Copper	0.2754	0.5000	0.8117	107	0.7876	102	78-126	3	0-7	
Lead	0.03554	0.5000	0.5684	107	0.5700	107	84-120	0	0-7	
Molybdenum	0.01844	0.5000	0.5141	99	0.5165	100	78-126	0	0-7	
Nickel	0.02768	0.5000	0.5403	103	0.5372	102	84-120	1	0-7	
Selenium	ND	0.5000	0.4703	94	0.4390	88	79-127	7	0-9	
Silver	ND	0.2500	0.1016	41	0.07946	32	86-128	24	0-7	3,4
Thallium	ND	0.5000	0.4888	98	0.5130	103	79-121	5	0-8	
Vanadium	ND	0.5000	0.5327	107	0.5120	102	88-118	4	0-7	
Zinc	0.4622	0.5000	1.017	111	0.9839	104	89-131	3	0-8	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0647-3	**Sample**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:27**	**180718SA1**
18-07-0647-3	**Matrix Spike**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:11**	**180718SA1**
18-07-0647-3	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:15**	**180718SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.09641	96	0.1017	102	73-127	5	0-11	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 6 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0870-1	**Sample**	**Sediment**	**ICP/MS 05**	**07/18/18**	**07/18/18 20:21**	**180718S01**
18-07-0870-1	**Matrix Spike**	**Sediment**	**ICP/MS 05**	**07/18/18**	**07/18/18 19:52**	**180718S01**
18-07-0870-1	**Matrix Spike Duplicate**	**Sediment**	**ICP/MS 05**	**07/18/18**	**07/18/18 19:56**	**180718S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.000	25.00	27.54	90	28.15	93	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 7 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B21-0.5	**Sample**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:05**	**180718S03**
B21-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 03:51**	**180718S03**
B21-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 03:56**	**180718S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	3.878	25.00	30.93	108	30.81	108	72-132	0	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 8 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B34-0.5	**Sample**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:25**	**180718S04**
B34-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:09**	**180718S04**
B34-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 05:13**	**180718S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	6.077	25.00	32.59	106	31.31	101	72-132	4	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: Taft Charter High School			Page 9 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0894-2	**Sample**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 15:53**	**180719SA2**
18-07-0894-2	**Matrix Spike**	**Aqueous**	**Mercury 07**	**07/18/18**	**07/20/18 14:57**	**180719SA2**
18-07-0894-2	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 15:58**	**180719SA2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.008659	87	0.008679	87	55-133	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 10 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0870-1	**Sample**	**Sediment**	**Mercury 07**	**07/19/18**	**07/19/18 16:26**	**180719S02**
18-07-0870-1	**Matrix Spike**	**Sediment**	**Mercury 07**	**07/19/18**	**07/19/18 16:28**	**180719S02**
18-07-0870-1	**Matrix Spike Duplicate**	**Sediment**	**Mercury 07**	**07/19/18**	**07/19/18 16:30**	**180719S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.1484	0.8350	0.7128	68	0.7358	70	76-136	3	0-16	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 11 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B34-0.5	**Sample**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:06**	**180719S04**
B34-0.5	**Matrix Spike**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:09**	**180719S04**
B34-0.5	**Matrix Spike Duplicate**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:27**	**180719S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.08266	0.8350	0.8926	97	0.8140	88	71-137	9	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 12 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B21-0.5	**Sample**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:32**	**180719S03**
B21-0.5	**Matrix Spike**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:34**	**180719S03**
B21-0.5	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:36**	**180719S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7835	94	0.8435	101	71-137	7	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 13 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B22-0.5 DUP	**Sample**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 06:38**	**180716S02**
B22-0.5 DUP	**Matrix Spike**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 05:55**	**180716S02**
B22-0.5 DUP	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 06:09**	**180716S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	25.28	101	25.38	102	50-135	0	0-25	
Alpha-BHC	ND	25.00	24.88	100	25.22	101	50-135	1	0-25	
Beta-BHC	ND	25.00	26.45	106	26.23	105	50-135	1	0-25	
4,4'-DDD	ND	25.00	26.34	105	25.26	101	50-135	4	0-25	
4,4'-DDE	ND	25.00	26.79	107	26.14	105	50-135	2	0-25	
4,4'-DDT	ND	25.00	27.52	110	26.40	106	50-135	4	0-25	
Delta-BHC	ND	25.00	25.51	102	25.36	101	50-135	1	0-25	
Dieldrin	ND	25.00	26.58	106	26.04	104	50-135	2	0-25	
Endosulfan I	ND	25.00	27.35	109	26.80	107	50-135	2	0-25	
Endosulfan II	ND	25.00	26.68	107	25.82	103	50-135	3	0-25	
Endosulfan Sulfate	ND	25.00	27.31	109	26.37	105	50-135	4	0-25	
Endrin	ND	25.00	27.77	111	27.20	109	50-135	2	0-25	
Endrin Aldehyde	ND	25.00	24.24	97	24.11	96	50-135	1	0-25	
Gamma-BHC	ND	25.00	25.72	103	25.81	103	50-135	0	0-25	
Heptachlor	ND	25.00	25.63	103	25.86	103	50-135	1	0-25	
Heptachlor Epoxide	ND	25.00	24.54	98	24.30	97	50-135	1	0-25	
Methoxychlor	ND	25.00	27.03	108	25.80	103	50-135	5	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 14 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B45-0.5	**Sample**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 16:17**	**180716S03**
B45-0.5	**Matrix Spike**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 18:34**	**180716S03**
B45-0.5	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 18:48**	**180716S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	23.30	93	21.68	87	50-135	7	0-25	
Alpha-BHC	ND	25.00	22.72	91	21.97	88	50-135	3	0-25	
Beta-BHC	ND	25.00	22.93	92	21.88	88	50-135	5	0-25	
4,4'-DDD	ND	25.00	22.57	90	22.97	92	50-135	2	0-25	
4,4'-DDE	ND	25.00	22.32	89	20.88	84	50-135	7	0-25	
4,4'-DDT	ND	25.00	19.84	79	14.20	57	50-135	33	0-25	4
Delta-BHC	ND	25.00	22.42	90	21.10	84	50-135	6	0-25	
Dieldrin	ND	25.00	22.66	91	21.22	85	50-135	7	0-25	
Endosulfan I	ND	25.00	23.80	95	22.14	89	50-135	7	0-25	
Endosulfan II	ND	25.00	21.74	87	20.32	81	50-135	7	0-25	
Endosulfan Sulfate	ND	25.00	21.58	86	20.80	83	50-135	4	0-25	
Endrin	ND	25.00	23.84	95	22.04	88	50-135	8	0-25	
Endrin Aldehyde	ND	25.00	19.02	76	16.86	67	50-135	12	0-25	
Gamma-BHC	ND	25.00	23.06	92	22.07	88	50-135	4	0-25	
Heptachlor	ND	25.00	23.30	93	21.40	86	50-135	8	0-25	
Heptachlor Epoxide	ND	25.00	22.19	89	20.77	83	50-135	7	0-25	
Methoxychlor	ND	25.00	19.98	80	15.39	62	50-135	26	0-25	4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 15 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B47-0.5	**Sample**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 15:39**	**180716S14**
B47-0.5	**Matrix Spike**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 15:54**	**180716S14**
B47-0.5	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 16:08**	**180716S14**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	23.98	96	21.74	87	50-135	10	0-25	
Alpha-BHC	ND	25.00	23.80	95	21.90	88	50-135	8	0-25	
Beta-BHC	ND	25.00	23.46	94	22.57	90	50-135	4	0-25	
4,4'-DDD	ND	25.00	23.99	96	22.28	89	50-135	7	0-25	
4,4'-DDE	ND	25.00	23.91	96	22.26	89	50-135	7	0-25	
4,4'-DDT	ND	25.00	24.50	98	22.78	91	50-135	7	0-25	
Delta-BHC	ND	25.00	23.80	95	22.18	89	50-135	7	0-25	
Dieldrin	ND	25.00	23.99	96	22.26	89	50-135	8	0-25	
Endosulfan I	ND	25.00	24.50	98	22.87	91	50-135	7	0-25	
Endosulfan II	ND	25.00	23.86	95	22.08	88	50-135	8	0-25	
Endosulfan Sulfate	ND	25.00	23.93	96	22.82	91	50-135	5	0-25	
Endrin	ND	25.00	24.80	99	23.04	92	50-135	7	0-25	
Endrin Aldehyde	ND	25.00	20.20	81	18.92	76	50-135	7	0-25	
Gamma-BHC	ND	25.00	23.28	93	22.04	88	50-135	5	0-25	
Heptachlor	ND	25.00	24.10	96	22.24	89	50-135	8	0-25	
Heptachlor Epoxide	ND	25.00	23.70	95	21.47	86	50-135	10	0-25	
Methoxychlor	ND	25.00	25.90	104	25.65	103	50-135	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1057-2	**Sample**	**Solid**	**GC 44**	**07/20/18**	**07/23/18 12:03**	**180720S08**
18-07-1057-2	**Matrix Spike**	**Solid**	**GC 44**	**07/20/18**	**07/23/18 11:35**	**180720S08**
18-07-1057-2	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**07/20/18**	**07/23/18 11:49**	**180720S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	24.32	97	22.74	91	50-135	7	0-25	
Alpha-BHC	ND	25.00	24.06	96	22.17	89	50-135	8	0-25	
Beta-BHC	ND	25.00	24.24	97	24.18	97	50-135	0	0-25	
4,4'-DDD	ND	25.00	27.70	111	25.26	101	50-135	9	0-25	
4,4'-DDE	ND	25.00	27.22	109	24.53	98	50-135	10	0-25	
4,4'-DDT	ND	25.00	29.98	120	26.15	105	50-135	14	0-25	
Delta-BHC	ND	25.00	26.58	106	24.36	97	50-135	9	0-25	
Dieldrin	ND	25.00	28.54	114	25.69	103	50-135	11	0-25	
Endosulfan I	ND	25.00	27.32	109	24.50	98	50-135	11	0-25	
Endosulfan II	ND	25.00	31.36	125	27.94	112	50-135	12	0-25	
Endosulfan Sulfate	ND	25.00	31.08	124	27.80	111	50-135	11	0-25	
Endrin	ND	25.00	29.02	116	26.12	104	50-135	11	0-25	
Endrin Aldehyde	ND	25.00	25.97	104	23.31	93	50-135	11	0-25	
Gamma-BHC	ND	25.00	24.54	98	22.60	90	50-135	8	0-25	
Heptachlor	ND	25.00	23.70	95	22.12	88	50-135	7	0-25	
Heptachlor Epoxide	ND	25.00	24.12	96	22.54	90	50-135	7	0-25	
Methoxychlor	ND	25.00	36.86	147	30.12	120	50-135	20	0-25	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-0932-1	**Sample**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 17:10**	**180717S09**
18-07-0932-1	**Matrix Spike**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 17:28**	**180717S09**
18-07-0932-1	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 17:46**	**180717S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	117.5	118	90.50	90	50-135	26	0-20	4
Aroclor-1260	ND	100.0	113.5	114	101.0	101	50-135	12	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3005A Filt.
		Method:	EPA 6020
Project: Taft Charter High School			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-07-0647-3	**Sample**	**Aqueous**	**ICP/MS 05**	**07/18/18 00:00**	**07/20/18 00:27**	**180718SA1**
18-07-0647-3	**PDS**	**Aqueous**	**ICP/MS 05**	**07/18/18 00:00**	**07/20/18 00:19**	**180718SA1**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	0.1000	0.1021	102	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-07-0870-1	**Sample**	**Sediment**	**ICP/MS 05**	**07/18/18 00:00**	**07/18/18 20:21**	**180718S01**
18-07-0870-1	**PDS**	**Sediment**	**ICP/MS 05**	**07/18/18 00:00**	**07/18/18 20:12**	**180718S01**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.000	25.00	28.90	96	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B21-0.5	**Sample**	**Solid**	**ICP/MS 05**	**07/18/18 00:00**	**07/20/18 05:05**	**180718S03**
B21-0.5	**PDS**	**Solid**	**ICP/MS 05**	**07/18/18 00:00**	**07/20/18 04:00**	**180718S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	3.878	25.00	30.78	108	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B34-0.5	**Sample**	**Solid**	**ICP/MS 05**	**07/18/18 00:00**	**07/20/18 05:25**	**180718S04**
B34-0.5	**PDS**	**Solid**	**ICP/MS 05**	**07/18/18 00:00**	**07/20/18 05:17**	**180718S04**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	6.077	25.00	31.62	102	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)
Project: Taft Charter High School			Page 1 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-498-620	**LCS**	**Aqueous**	**GC 50**	**07/17/18**	**07/19/18 18:02**	**180717B03**
099-15-498-620	**LCSD**	**Aqueous**	**GC 50**	**07/17/18**	**07/19/18 18:22**	**180717B03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	4000	3969	99	4034	101	69-123	2	0-30	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26643	**LCS**	**Solid**	**ICP 7300**	**07/18/18**	**07/19/18 12:06**	**180718L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	25.79	103	80-120	73-127	
Barium	25.00	26.81	107	80-120	73-127	
Beryllium	25.00	26.22	105	80-120	73-127	
Cadmium	25.00	27.16	109	80-120	73-127	
Chromium	25.00	26.15	105	80-120	73-127	
Cobalt	25.00	27.79	111	80-120	73-127	
Copper	25.00	26.63	107	80-120	73-127	
Lead	25.00	28.26	113	80-120	73-127	
Molybdenum	25.00	26.59	106	80-120	73-127	
Nickel	25.00	27.98	112	80-120	73-127	
Selenium	25.00	26.83	107	80-120	73-127	
Silver	12.50	12.66	101	80-120	73-127	
Thallium	25.00	23.69	95	80-120	73-127	
Vanadium	25.00	25.63	103	80-120	73-127	
Zinc	25.00	27.94	112	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26662	**LCS**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 16:51**	**180718L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	22.79	91	80-120	73-127	
Barium	25.00	25.99	104	80-120	73-127	
Beryllium	25.00	24.46	98	80-120	73-127	
Cadmium	25.00	27.47	110	80-120	73-127	
Chromium	25.00	25.23	101	80-120	73-127	
Cobalt	25.00	26.53	106	80-120	73-127	
Copper	25.00	24.03	96	80-120	73-127	
Lead	25.00	26.43	106	80-120	73-127	
Molybdenum	25.00	23.67	95	80-120	73-127	
Nickel	25.00	27.59	110	80-120	73-127	
Selenium	25.00	23.01	92	80-120	73-127	
Silver	12.50	11.33	91	80-120	73-127	
Thallium	25.00	24.63	99	80-120	73-127	
Vanadium	25.00	23.70	95	80-120	73-127	
Zinc	25.00	25.26	101	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 4 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26666	**LCS**	**Solid**	**ICP 8300**	**07/18/18**	**07/23/18 16:54**	**180718L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	22.96	92	80-120	73-127	
Barium	25.00	26.09	104	80-120	73-127	
Beryllium	25.00	24.35	97	80-120	73-127	
Cadmium	25.00	27.44	110	80-120	73-127	
Chromium	25.00	25.27	101	80-120	73-127	
Cobalt	25.00	26.87	107	80-120	73-127	
Copper	25.00	23.86	95	80-120	73-127	
Lead	25.00	26.50	106	80-120	73-127	
Molybdenum	25.00	23.90	96	80-120	73-127	
Nickel	25.00	27.42	110	80-120	73-127	
Selenium	25.00	22.83	91	80-120	73-127	
Silver	12.50	11.33	91	80-120	73-127	
Thallium	25.00	24.31	97	80-120	73-127	
Vanadium	25.00	23.87	95	80-120	73-127	
Zinc	25.00	25.52	102	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: Taft Charter High School			Page 5 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-16973	**LCS**	**Aqueous**	**ICP 7300**	**07/18/18**	**07/20/18 10:43**	**180718LA2**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.5000	0.4635	93	80-120	73-127	
Barium	0.5000	0.5174	103	80-120	73-127	
Beryllium	0.5000	0.4796	96	80-120	73-127	
Cadmium	0.5000	0.5128	103	80-120	73-127	
Chromium	0.5000	0.5152	103	80-120	73-127	
Cobalt	0.5000	0.5247	105	80-120	73-127	
Copper	0.5000	0.5209	104	80-120	73-127	
Lead	0.5000	0.5284	106	80-120	73-127	
Molybdenum	0.5000	0.4855	97	80-120	73-127	
Nickel	0.5000	0.5089	102	80-120	73-127	
Selenium	0.5000	0.4668	93	80-120	73-127	
Silver	0.2500	0.2332	93	80-120	73-127	
Thallium	0.5000	0.4833	97	80-120	73-127	
Vanadium	0.5000	0.5025	100	80-120	73-127	
Zinc	0.5000	0.5173	103	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: Taft Charter High School			Page 6 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
096-06-003-5945	**LCS**	**Aqueous**	**ICP/MS 05**	**07/18/18**	**07/20/18 00:07**	**180718LA1A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	0.1000	0.1149	115	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 7 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1694	**LCS**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/18/18 19:48**	**180718L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	22.66	91	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 8 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1692	**LCS**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 03:43**	**180718L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	24.34	97	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 9 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1693	**LCS**	**Solid**	**ICP/MS 05**	**07/18/18**	**07/20/18 03:47**	**180718L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	24.48	98	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: Taft Charter High School			Page 10 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-04-008-8632	**LCS**	**Aqueous**	**Mercury 07**	**07/19/18**	**07/19/18 15:51**	**180719LA2**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.01000	0.009964	100	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 11 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-3984	**LCS**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 16:23**	**180719L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7727	93	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 12 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-3985	**LCS**	**Solid**	**Mercury 07**	**07/19/18**	**07/19/18 19:04**	**180719L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7371	88	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 13 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-3986	**LCS**	**Solid**	**Mercury 08**	**07/19/18**	**07/19/18 18:29**	**180719L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7281	87	85-121	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 14 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2987	**LCS**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 02:36**	**180716L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	27.17	109	50-135	36-149	
Alpha-BHC	25.00	27.13	109	50-135	36-149	
Beta-BHC	25.00	25.42	102	50-135	36-149	
4,4'-DDD	25.00	26.84	107	50-135	36-149	
4,4'-DDE	25.00	25.67	103	50-135	36-149	
4,4'-DDT	25.00	26.70	107	50-135	36-149	
Delta-BHC	25.00	27.52	110	50-135	36-149	
Dieldrin	25.00	27.63	111	50-135	36-149	
Endosulfan I	25.00	29.70	119	50-135	36-149	
Endosulfan II	25.00	27.96	112	50-135	36-149	
Endosulfan Sulfate	25.00	28.43	114	50-135	36-149	
Endrin	25.00	28.42	114	50-135	36-149	
Endrin Aldehyde	25.00	26.62	106	50-135	36-149	
Gamma-BHC	25.00	26.78	107	50-135	36-149	
Heptachlor	25.00	27.66	111	50-135	36-149	
Heptachlor Epoxide	25.00	26.86	107	50-135	36-149	
Methoxychlor	25.00	26.20	105	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 15 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2988	**LCS**	**Solid**	**GC 44**	**07/16/18**	**07/20/18 03:05**	**180716L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	26.22	105	50-135	36-149	
Alpha-BHC	25.00	25.58	102	50-135	36-149	
Beta-BHC	25.00	24.16	97	50-135	36-149	
4,4'-DDD	25.00	25.45	102	50-135	36-149	
4,4'-DDE	25.00	24.30	97	50-135	36-149	
4,4'-DDT	25.00	25.02	100	50-135	36-149	
Delta-BHC	25.00	24.96	100	50-135	36-149	
Dieldrin	25.00	26.16	105	50-135	36-149	
Endosulfan I	25.00	28.30	113	50-135	36-149	
Endosulfan II	25.00	26.22	105	50-135	36-149	
Endosulfan Sulfate	25.00	26.60	106	50-135	36-149	
Endrin	25.00	26.86	107	50-135	36-149	
Endrin Aldehyde	25.00	24.98	100	50-135	36-149	
Gamma-BHC	25.00	25.30	101	50-135	36-149	
Heptachlor	25.00	26.10	104	50-135	36-149	
Heptachlor Epoxide	25.00	25.42	102	50-135	36-149	
Methoxychlor	25.00	24.70	99	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 16 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2982	**LCS**	**Solid**	**GC 44**	**07/16/18**	**07/17/18 16:24**	**180716L14**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	25.14	101	50-135	36-149	
Alpha-BHC	25.00	25.24	101	50-135	36-149	
Beta-BHC	25.00	23.65	95	50-135	36-149	
4,4'-DDD	25.00	25.12	100	50-135	36-149	
4,4'-DDE	25.00	24.89	100	50-135	36-149	
4,4'-DDT	25.00	23.43	94	50-135	36-149	
Delta-BHC	25.00	25.56	102	50-135	36-149	
Dieldrin	25.00	25.26	101	50-135	36-149	
Endosulfan I	25.00	25.76	103	50-135	36-149	
Endosulfan II	25.00	25.30	101	50-135	36-149	
Endosulfan Sulfate	25.00	25.76	103	50-135	36-149	
Endrin	25.00	24.60	98	50-135	36-149	
Endrin Aldehyde	25.00	24.96	100	50-135	36-149	
Gamma-BHC	25.00	25.02	100	50-135	36-149	
Heptachlor	25.00	25.74	103	50-135	36-149	
Heptachlor Epoxide	25.00	24.91	100	50-135	36-149	
Methoxychlor	25.00	23.62	94	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Taft Charter High School			Page 17 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2989	**LCS**	**Solid**	**GC 44**	**07/20/18**	**07/23/18 11:21**	**180720L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	25.05	100	50-135	36-149	
Alpha-BHC	25.00	25.50	102	50-135	36-149	
Beta-BHC	25.00	23.60	94	50-135	36-149	
4,4'-DDD	25.00	24.10	96	50-135	36-149	
4,4'-DDE	25.00	22.58	90	50-135	36-149	
4,4'-DDT	25.00	24.98	100	50-135	36-149	
Delta-BHC	25.00	25.62	102	50-135	36-149	
Dieldrin	25.00	26.04	104	50-135	36-149	
Endosulfan I	25.00	29.32	117	50-135	36-149	
Endosulfan II	25.00	26.54	106	50-135	36-149	
Endosulfan Sulfate	25.00	26.68	107	50-135	36-149	
Endrin	25.00	26.38	106	50-135	36-149	
Endrin Aldehyde	25.00	25.18	101	50-135	36-149	
Gamma-BHC	25.00	25.04	100	50-135	36-149	
Heptachlor	25.00	26.06	104	50-135	36-149	
Heptachlor Epoxide	25.00	25.44	102	50-135	36-149	
Methoxychlor	25.00	24.76	99	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
Project: Taft Charter High School			Page 18 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-1038	**LCS**	**Aqueous**	**GC 44**	**07/13/18**	**07/17/18 09:38**	**180713L12**
099-12-529-1038	**LCSD**	**Aqueous**	**GC 44**	**07/13/18**	**07/17/18 09:52**	**180713L12**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.5438	109	0.4951	99	50-135	36-149	9	0-25	
Gamma-BHC	0.5000	0.5481	110	0.5006	100	50-135	36-149	9	0-25	
Beta-BHC	0.5000	0.5073	101	0.4672	93	50-135	36-149	8	0-25	
Heptachlor	0.5000	0.5550	111	0.4668	93	50-135	36-149	17	0-25	
Delta-BHC	0.5000	0.5437	109	0.4951	99	50-135	36-149	9	0-25	
Aldrin	0.5000	0.5357	107	0.4445	89	50-135	36-149	19	0-25	
Heptachlor Epoxide	0.5000	0.5567	111	0.5046	101	50-135	36-149	10	0-25	
Endosulfan I	0.5000	0.5834	117	0.5408	108	50-135	36-149	8	0-25	
Dieldrin	0.5000	0.5702	114	0.5137	103	50-135	36-149	10	0-25	
4,4'-DDE	0.5000	0.5559	111	0.5035	101	50-135	36-149	10	0-25	
Endrin	0.5000	0.5834	117	0.5283	106	50-135	36-149	10	0-25	
Endrin Aldehyde	0.5000	0.5433	109	0.4417	88	50-135	36-149	21	0-25	
4,4'-DDD	0.5000	0.5808	116	0.5454	109	50-135	36-149	6	0-25	
Endosulfan II	0.5000	0.5721	114	0.5335	107	50-135	36-149	7	0-25	
4,4'-DDT	0.5000	0.4878	98	0.5237	105	50-135	36-149	7	0-25	
Endosulfan Sulfate	0.5000	0.5843	117	0.5468	109	50-135	36-149	7	0-25	
Methoxychlor	0.5000	0.5714	114	0.5616	112	50-135	36-149	2	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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
Project: Taft Charter High School			Page 19 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-4759	**LCS**	**Solid**	**GC 58**	**07/17/18**	**07/18/18 16:52**	**180717L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	97.00	97	50-135	
Aroclor-1260	100.0	115.5	116	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8082
Project: Taft Charter High School			Page 20 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-1414	**LCS**	**Aqueous**	**GC 66**	**07/13/18**	**07/16/18 22:20**	**180713L12**
099-12-533-1414	**LCSD**	**Aqueous**	**GC 66**	**07/13/18**	**07/16/18 22:38**	**180713L12**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	2.000	1.180	59	2.030	102	50-135	53	0-25	X
Aroclor-1260	2.000	1.030	52	1.790	90	50-135	54	0-25	X

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 21 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-26442	**LCS**	**Aqueous**	**GC/MS Z**	**07/16/18**	**07/16/18 15:20**	**180716L033**
099-14-001-26442	**LCSD**	**Aqueous**	**GC/MS Z**	**07/16/18**	**07/16/18 15:49**	**180716L033**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
1,1,1,2-Tetrachloroethane	50.00	57.43	115	59.37	119	80-129	72-137	3	0-20	
1,1,1-Trichloroethane	50.00	57.74	115	58.60	117	76-124	68-132	1	0-20	
1,1,2,2-Tetrachloroethane	50.00	47.46	95	49.95	100	74-122	66-130	5	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	60.32	121	57.66	115	54-150	38-166	5	0-30	
1,1,2-Trichloroethane	50.00	48.41	97	50.32	101	80-120	73-127	4	0-20	
1,1-Dichloroethane	50.00	41.98	84	43.57	87	72-126	63-135	4	0-20	
1,1-Dichloroethene	50.00	50.09	100	52.41	105	66-132	55-143	5	0-20	
1,1-Dichloropropene	50.00	53.17	106	51.90	104	75-123	67-131	2	0-20	
1,2,3-Trichlorobenzene	50.00	54.22	108	53.77	108	72-132	62-142	1	0-20	
1,2,3-Trichloropropane	50.00	50.23	100	54.06	108	75-123	67-131	7	0-20	
1,2,4-Trichlorobenzene	50.00	57.36	115	56.66	113	74-134	64-144	1	0-20	
1,2,4-Trimethylbenzene	50.00	56.15	112	55.72	111	74-128	65-137	1	0-20	
1,2-Dibromo-3-Chloropropane	50.00	54.33	109	56.62	113	66-126	56-136	4	0-20	
1,2-Dibromoethane	50.00	53.11	106	55.50	111	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	50.00	51.38	103	52.33	105	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	56.80	114	57.89	116	76-120	69-127	2	0-20	
1,2-Dichloropropane	50.00	45.82	92	46.53	93	80-120	73-127	2	0-20	
1,3,5-Trimethylbenzene	50.00	56.61	113	57.37	115	77-131	68-140	1	0-20	
1,3-Dichlorobenzene	50.00	51.89	104	51.68	103	80-120	73-127	0	0-20	
1,3-Dichloropropane	50.00	49.45	99	51.51	103	80-120	73-127	4	0-20	
1,4-Dichlorobenzene	50.00	49.48	99	49.86	100	80-120	73-127	1	0-20	
2,2-Dichloropropane	50.00	73.11	146	71.83	144	50-150	33-167	2	0-20	
2-Butanone	50.00	37.33	75	40.13	80	60-126	49-137	7	0-20	
2-Chlorotoluene	50.00	54.95	110	55.81	112	80-121	73-128	2	0-20	
2-Hexanone	50.00	38.40	77	42.44	85	63-123	53-133	10	0-20	
4-Chlorotoluene	50.00	55.13	110	54.78	110	80-120	73-127	1	0-20	
4-Methyl-2-Pentanone	50.00	41.61	83	42.66	85	65-125	55-135	3	0-20	
Acetone	50.00	38.93	78	41.54	83	53-137	39-151	7	0-21	
Benzene	50.00	46.59	93	48.43	97	79-121	72-128	4	0-20	
Bromobenzene	50.00	51.54	103	53.01	106	80-120	73-127	3	0-20	
Bromochloromethane	50.00	52.91	106	53.04	106	80-122	73-129	0	0-20	
Bromodichloromethane	50.00	55.56	111	56.60	113	80-124	73-131	2	0-20	
Bromoform	50.00	56.72	113	58.45	117	73-127	64-136	3	0-20	
Bromomethane	50.00	53.58	107	48.76	98	50-150	33-167	9	0-26	
Carbon Disulfide	50.00	44.14	88	44.68	89	50-150	33-167	1	0-22	
Carbon Tetrachloride	50.00	62.53	125	62.88	126	65-143	52-156	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 22 of 26

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Chlorobenzene	50.00	48.34	97	50.68	101	80-120	73-127	5	0-20	
Chloroethane	50.00	53.46	107	57.19	114	62-128	51-139	7	0-20	
Chloroform	50.00	53.55	107	54.90	110	80-120	73-127	2	0-20	
Chloromethane	50.00	36.50	73	37.63	75	43-133	28-148	3	0-20	
Dibromochloromethane	50.00	53.85	108	56.89	114	80-123	73-130	6	0-20	
Dibromomethane	50.00	49.18	98	50.64	101	80-120	73-127	3	0-20	
Dichlorodifluoromethane	50.00	68.10	136	68.00	136	50-150	33-167	0	0-30	
Ethylbenzene	50.00	51.00	102	52.99	106	80-120	73-127	4	0-20	
Isopropylbenzene	50.00	56.12	112	57.11	114	80-128	72-136	2	0-20	
Methylene Chloride	50.00	46.58	93	48.63	97	61-133	49-145	4	0-27	
Naphthalene	50.00	49.30	99	51.30	103	69-129	59-139	4	0-20	
Styrene	50.00	53.23	106	55.14	110	80-126	72-134	4	0-20	
Tetrachloroethene	50.00	43.51	87	45.27	91	55-139	41-153	4	0-23	
Toluene	50.00	47.99	96	49.22	98	80-120	73-127	3	0-20	
t-1,2-Dichloroethene	50.00	46.61	93	48.63	97	66-132	55-143	4	0-20	
Trichloroethene	50.00	49.64	99	49.01	98	79-121	72-128	1	0-20	
Trichlorofluoromethane	50.00	64.68	129	64.52	129	72-132	62-142	0	0-20	
Vinyl Acetate	50.00	46.16	92	46.83	94	50-150	33-167	1	0-20	
Vinyl Chloride	50.00	48.53	97	49.46	99	63-129	52-140	2	0-20	
c-1,3-Dichloropropene	50.00	54.58	109	57.62	115	77-131	68-140	5	0-20	
c-1,2-Dichloroethene	50.00	48.85	98	50.13	100	78-120	71-127	3	0-20	
n-Butylbenzene	50.00	55.58	111	54.01	108	72-138	61-149	3	0-20	
n-Propylbenzene	50.00	54.29	109	54.89	110	80-128	72-136	1	0-20	
o-Xylene	50.00	52.93	106	55.04	110	80-128	72-136	4	0-20	
p-Isopropyltoluene	50.00	55.02	110	54.75	109	73-133	63-143	0	0-20	
sec-Butylbenzene	50.00	55.18	110	55.06	110	77-131	68-140	0	0-20	
t-1,3-Dichloropropene	50.00	52.26	105	55.31	111	76-136	66-146	6	0-20	
tert-Butylbenzene	50.00	51.51	103	54.05	108	80-125	72-132	5	0-20	
p/m-Xylene	100.0	107.2	107	110.0	110	80-122	73-129	3	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	46.82	94	47.76	96	69-123	60-132	2	0-20	
Cyclohexanone	250.0	255.5	102	224.6	90	50-150	33-167	13	0-30	
2-Methyl-2-Butanol (TAA)	250.0	214.8	86	238.6	95	50-150	33-167	11	0-21	
Diethyl Ether	50.00	47.12	94	47.64	95	71-125	62-134	1	0-22	
1,4-Dioxane	500.0	438.3	88	456.3	91	80-150	68-162	4	0-20	
Tert-Butyl Alcohol (TBA)	250.0	241.2	96	236.8	95	80-124	73-131	2	0-20	
Diisopropyl Ether (DIPE)	50.00	42.76	86	43.07	86	79-121	72-128	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.66	89	45.92	92	71-125	62-134	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.46	101	52.86	106	70-124	61-133	5	0-20	
Ethanol	500.0	382.8	77	381.3	76	53-149	37-165	0	0-24	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.	Date Received:	07/12/18
5261 West Imperial Highway	Work Order:	18-07-0811
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: Taft Charter High School		Page 23 of 26

Total number of LCS compounds: 75
Total number of ME compounds: 0
Total number of ME compounds allowed: 4
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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 24 of 26

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-26441	**LCS**	**Aqueous**	**GC/MS Z**	**07/17/18**	**07/17/18 15:11**	**180717L021**
099-14-001-26441	**LCSD**	**Aqueous**	**GC/MS Z**	**07/17/18**	**07/17/18 15:40**	**180717L021**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
1,1,1,2-Tetrachloroethane	50.00	56.57	113	56.56	113	80-129	72-137	0	0-20	
1,1,1-Trichloroethane	50.00	54.18	108	56.53	113	76-124	68-132	4	0-20	
1,1,2,2-Tetrachloroethane	50.00	47.21	94	48.99	98	74-122	66-130	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	63.77	128	61.44	123	54-150	38-166	4	0-30	
1,1,2-Trichloroethane	50.00	50.44	101	49.33	99	80-120	73-127	2	0-20	
1,1-Dichloroethane	50.00	42.34	85	43.47	87	72-126	63-135	3	0-20	
1,1-Dichloroethene	50.00	50.68	101	53.48	107	66-132	55-143	5	0-20	
1,1-Dichloropropene	50.00	51.81	104	53.37	107	75-123	67-131	3	0-20	
1,2,3-Trichlorobenzene	50.00	54.40	109	52.86	106	72-132	62-142	3	0-20	
1,2,3-Trichloropropane	50.00	49.56	99	51.22	102	75-123	67-131	3	0-20	
1,2,4-Trichlorobenzene	50.00	56.93	114	55.15	110	74-134	64-144	3	0-20	
1,2,4-Trimethylbenzene	50.00	54.88	110	54.73	109	74-128	65-137	0	0-20	
1,2-Dibromo-3-Chloropropane	50.00	50.81	102	50.83	102	66-126	56-136	0	0-20	
1,2-Dibromoethane	50.00	54.02	108	54.32	109	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	51.41	103	52.41	105	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	57.57	115	57.04	114	76-120	69-127	1	0-20	
1,2-Dichloropropane	50.00	46.14	92	47.37	95	80-120	73-127	3	0-20	
1,3,5-Trimethylbenzene	50.00	57.37	115	56.77	114	77-131	68-140	1	0-20	
1,3-Dichlorobenzene	50.00	52.04	104	52.13	104	80-120	73-127	0	0-20	
1,3-Dichloropropane	50.00	50.37	101	50.73	101	80-120	73-127	1	0-20	
1,4-Dichlorobenzene	50.00	49.27	99	50.03	100	80-120	73-127	2	0-20	
2,2-Dichloropropane	50.00	66.64	133	67.53	135	50-150	33-167	1	0-20	
2-Butanone	50.00	39.45	79	40.60	81	60-126	49-137	3	0-20	
2-Chlorotoluene	50.00	55.38	111	54.76	110	80-121	73-128	1	0-20	
2-Hexanone	50.00	39.92	80	39.86	80	63-123	53-133	0	0-20	
4-Chlorotoluene	50.00	53.27	107	53.23	106	80-120	73-127	0	0-20	
4-Methyl-2-Pentanone	50.00	42.24	84	43.90	88	65-125	55-135	4	0-20	
Acetone	50.00	43.35	87	41.15	82	53-137	39-151	5	0-21	
Benzene	50.00	47.70	95	49.13	98	79-121	72-128	3	0-20	
Bromobenzene	50.00	53.27	107	51.96	104	80-120	73-127	2	0-20	
Bromochloromethane	50.00	53.03	106	54.12	108	80-122	73-129	2	0-20	
Bromodichloromethane	50.00	55.58	111	56.14	112	80-124	73-131	1	0-20	
Bromoform	50.00	54.24	108	56.69	113	73-127	64-136	4	0-20	
Bromomethane	50.00	51.44	103	51.47	103	50-150	33-167	0	0-26	
Carbon Disulfide	50.00	43.23	86	44.63	89	50-150	33-167	3	0-22	
Carbon Tetrachloride	50.00	59.24	118	61.40	123	65-143	52-156	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: Taft Charter High School			Page 25 of 26

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Chlorobenzene	50.00	49.79	100	49.28	99	80-120	73-127	1	0-20	
Chloroethane	50.00	56.29	113	60.25	121	62-128	51-139	7	0-20	
Chloroform	50.00	52.59	105	54.92	110	80-120	73-127	4	0-20	
Chloromethane	50.00	37.24	74	40.31	81	43-133	28-148	8	0-20	
Dibromochloromethane	50.00	53.90	108	53.26	107	80-123	73-130	1	0-20	
Dibromomethane	50.00	50.72	101	51.68	103	80-120	73-127	2	0-20	
Dichlorodifluoromethane	50.00	71.90	144	72.45	145	50-150	33-167	1	0-30	
Ethylbenzene	50.00	51.61	103	51.96	104	80-120	73-127	1	0-20	
Isopropylbenzene	50.00	57.07	114	56.16	112	80-128	72-136	2	0-20	
Methylene Chloride	50.00	48.11	96	48.73	97	61-133	49-145	1	0-27	
Naphthalene	50.00	48.40	97	49.47	99	69-129	59-139	2	0-20	
Styrene	50.00	53.89	108	54.00	108	80-126	72-134	0	0-20	
Tetrachloroethene	50.00	45.93	92	45.13	90	55-139	41-153	2	0-23	
Toluene	50.00	49.28	99	50.01	100	80-120	73-127	1	0-20	
t-1,2-Dichloroethene	50.00	46.93	94	49.13	98	66-132	55-143	5	0-20	
Trichloroethene	50.00	49.73	99	50.49	101	79-121	72-128	2	0-20	
Trichlorofluoromethane	50.00	66.46	133	66.48	133	72-132	62-142	0	0-20	ME
Vinyl Acetate	50.00	46.25	92	46.96	94	50-150	33-167	2	0-20	
Vinyl Chloride	50.00	50.42	101	54.36	109	63-129	52-140	8	0-20	
c-1,3-Dichloropropene	50.00	55.15	110	55.81	112	77-131	68-140	1	0-20	
c-1,2-Dichloroethene	50.00	47.48	95	50.30	101	78-120	71-127	6	0-20	
n-Butylbenzene	50.00	54.15	108	52.80	106	72-138	61-149	3	0-20	
n-Propylbenzene	50.00	55.18	110	53.52	107	80-128	72-136	3	0-20	
o-Xylene	50.00	53.41	107	53.06	106	80-128	72-136	1	0-20	
p-Isopropyltoluene	50.00	54.30	109	53.17	106	73-133	63-143	2	0-20	
sec-Butylbenzene	50.00	54.20	108	54.50	109	77-131	68-140	1	0-20	
t-1,3-Dichloropropene	50.00	51.17	102	51.02	102	76-136	66-146	0	0-20	
tert-Butylbenzene	50.00	52.88	106	54.18	108	80-125	72-132	2	0-20	
p/m-Xylene	100.0	109.5	110	108.0	108	80-122	73-129	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	44.25	88	45.91	92	69-123	60-132	4	0-20	
Cyclohexanone	250.0	241.0	96	226.9	91	50-150	33-167	6	0-30	
2-Methyl-2-Butanol (TAA)	250.0	209.2	84	227.6	91	50-150	33-167	8	0-21	
Diethyl Ether	50.00	47.96	96	48.24	96	71-125	62-134	1	0-22	
1,4-Dioxane	500.0	453.2	91	467.5	94	80-150	68-162	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	245.9	98	241.1	96	80-124	73-131	2	0-20	
Diisopropyl Ether (DIPE)	50.00	42.87	86	43.94	88	79-121	72-128	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	42.56	85	44.34	89	71-125	62-134	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.11	98	50.31	101	70-124	61-133	2	0-20	
Ethanol	500.0	448.3	90	445.6	89	53-149	37-165	1	0-24	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.	Date Received:	07/12/18
5261 West Imperial Highway	Work Order:	18-07-0811
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: Taft Charter High School		Page 26 of 26

Total number of LCS compounds: 75
Total number of ME compounds: 1
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-07-0811

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3010A Total	1080	ICP 8300	1
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 6020	EPA 3020A Total	598	ICP/MS 05	1
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 7470A	EPA 7470A Total	868	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 3510C	682	GC 50	1
EPA 8081A	EPA 3545	669	GC 44	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3545	1028	GC 58	1
EPA 8082	EPA 3510C	669	GC 66	1
EPA 8260B	EPA 5030C	849	GC/MS Z	2

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Glossary of Terms and Qualifiers

Work Order: 18-07-0811 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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Chain-of-Custody Record

EFI_071118-1

18-07-0811

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround: Normal / Standard (7-day TAT)	Turnaround: 72 Hour	Turnaround: 48 Hours	Turnaround: 24 Hours
1	B21-0.5					X							07/11/18	7:31	X	X	X	X							X			
2	B21-0.5 DUP					X							07/11/18	7:31	X	X	X								X			
3	B21-1.5					X							07/11/18	7:32						X								
4	B21-3					X							07/11/18	7:33						X								
5	B22-0.5					X							07/11/18	7:41	X	X	X								X			
6	B22-0.5 DUP					X							07/11/18	7:41	X	X	X								X			
7	B22-1.5					X							07/11/18	7:42						X								
8	B22-3					X							07/11/18	7:43						X								
9	B23-0.5					X							07/11/18	7:51	X	X	X								X			
10	B23-0.5 DUP					X							07/11/18	7:51	X	X	X								X			
11	B23-1.5					X							07/11/18	7:52						X								
12	B23-3					X							07/11/18	7:53						X								
13	B24-0.5					X							07/11/18	8:05	X	X	X								X			
14	B24-0.5 DUP					X							07/11/18	8:05	X	X	X								X			
15	B24-1.5					X							07/11/18	8:06						X								
16	B24-3					X							07/11/18	8:07						X								
17	B25-0.5					x							07/11/18	8:40	X	X	X								X			
18	B25-0.5 DUP					x							07/11/18	8:40	X	X	X								X			
19	B25-1.5					x							07/11/18	8:42						X								
20	B25-3					x							07/11/18	8:43						X								

Relinquished by	Date	Time	Received by	Date	Time
Desi S.	7/12/18	1180	[signature]	7/12/18	1180
[signature]	7/12/18	1630	[signature]	7/12/18	1630

Remarks

Sample condition (circle): Chilled Intact

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0811

Chain-of-Custody Record

EFI_071118-2

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

	Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
21	1	B26-0.5	21				X							07/11/18	8:50	X	X	X	X							X			
22	2	B26-0.5 DUP	22				X							07/11/18	8:50	X	X	X								X			
23	3	B26-1.5	23				X							07/11/18	8:52					X									
24	4	B26-3	24				X							07/11/18	8:54					X									
25	5	B27-0.5	25				X							07/11/18	9:25	X	X	X								X			
26	6	B27-1.5	26				X							07/11/18	9:27					X									
	7	B27-3	27				X							07/11/18	9:29					X									
	8	B28-0.5	28				X							07/11/18	9:45	X	X	X								X			
	9	B28-1.5	29				X							07/11/18	9:47					X									
	10	B28-3	30				X							07/11/18	9:49					X									
	11	B29-0.5	31				X							07/11/18	10:00	X	X	X								X			
	12	B29-1.5	32				X							07/11/18	10:02					X									
	13	B29-3	33				X							07/11/18	10:04					X									
	14	B30-0.5	34				X							07/11/18	10:16	X	X	X								X			
	15	B30-1.5	35				X							07/11/18	10:18					X									
	16	B30-3	36				X							07/11/18	10:20					X									
	17	B31-0.5	37				X							07/11/18	10:41	X	X	X								X			
	18	B31-0.5 DUP	38				X							07/11/18	10:41	X	X	X								X			
	19	B31-1.5	39				X							07/11/18	10:43					X									
	20	B31-3	40				X							07/11/18	10:45					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
Desi S.	7/12/18	1430	[illegible]	7/12/18	1430	Sample condition (circle): Chilled Intact
[illegible]	7/12/18	1630	[illegible]	7/12/18	1630	

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0871

Chain-of-Custody Record

EFI_071118-3

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B32-0.5	41				X							07/11/18	10:48	X	X	X	X							X			
2	B32-01.5	42				X							07/11/18	10:50					X									
3	B32-3	43				X							07/11/18	10:52					X									
4	B33-0.5	44				X							07/11/18	11:00	X	X	X								X			
5	B33-1.5	45				X							07/11/18	11:02					X									
6	B33-3	46				X							07/11/18	11:04					X									
7	B34-0.5	47				X							07/11/18	11:15	X	X	X								X			
8	B34-1.5	48				X							07/11/18	11:15					X									
9	B34-1.5	49				X							07/11/18	11:17					X									
10	B34-3	50				X							07/11/18	11:19					X									
11	B35-0.5	51				X							07/11/18	11:51	X	X	X								X			
12	B35-0.5 DUP	52				X							07/11/18	11:51	X	X	X								X			
13	B35-1.5	53				X							07/11/18	11:53					X									
14	B35-3	54				X							07/11/18	11:55					X									
15	B36-0.5	55				X							07/11/18	12:00	X	X	X								X			
16	B36-1.5	56				X							07/11/18	12:02					X									
17	B36-3	57				X							07/11/18	12:04					X									
18	B37-0.5	58				X							07/11/18	12:11	X	X	X								X			
19	B37-0.5 DUP	59				X							07/11/18	12:11	X	X	X								X			
20	B37-1.5	60				X							07/11/18	12:13					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
Desi S.	7/12/18	1450	[illegible]	7/12/18	1450	Sample condition (circle): Chilled Intact
[illegible]	7/12/18	1630	[illegible]	7/12/18	1630	

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Chain-of-Custody Record

EFI_071118-4

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B37-3	61				X							07/11/18	12:15					X									
2	B38-0.5	62				X							07/11/18	12:24	X	X	X	X							X			
3	B38-1.5	63				X							07/11/18	12:26					X									
4	B38-3	64				X							07/11/18	12:28					X									
5	B39-0.5	65				X							07/11/18	12:40	X	X	X								X			
6	B39-0.5 DUP	66				X							07/11/18	12:40	X	X	X								X			
7	B39-1.5	67				X							07/11/18	12:42					X									
8	B39-3	68				X							07/11/18	12:44					X									
9	B40-0.5	69				X							07/11/18	12:50	X	X	X								X			
10	B40-1.5	70				X							07/11/18	12:52	X	X	X								X			
11	B40-3	71				X							07/11/18	12:54					X									
12	B41-0.5	72				X							07/11/18	13:00	X	X	X								X			
13	B41-1.5	73				X							07/11/18	13:02	X	X	X								X			
14	B41-3	74				X							07/11/18	13:04					X									
15	B42-0.5	75				X							07/11/18	13:46	X	X	X								X			
16	B42-1.5	76				X							07/11/18	13:48					X									
17	B42-3	77				X							07/11/18	13:50					X									
18	B43-0.5	78				X							07/11/18	14:00	X	X	X								X			
19	B43-1.5	79				X							07/11/18	14:02					X									
20	B43-3	80				X							07/11/18	14:04					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	7/12/18	1450	[signature]	7/12/18	1450	Sample condition (circle): Chilled Intact
[signature]	7/12/18	1630	[signature]	7/12/18	1630	

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(0811)

Chain-of-Custody Record

EFI_071118-5

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B44-0.5	81				X							07/11/18	14:10	X	X	X							X			
2	B44-1.5	82				X							07/11/18	14:12				X									
3	B44-3	83				X							07/11/18	14:14				X									
4	B45-0.5	84				X							07/11/18	14:16	X	X	X							X			
5	B45-0.5 DUP	85				X							07/11/18	14:16	X	X	X							X			
6	B45-1.5	86				X							07/11/18	14;18				X									
7	B45-3	87				X							07/11/18	14:20				X									
8	B46-0.5	88				X							07/11/18	14:32	X	X	X										
9	B46-1.5	89				X							07/11/18	14:34				X									
10	B46-3	90				X							07/11/18	14:36				X									
11	B47-0.5	91				X							07/11/18	14:46	X	X	X							X			
12	B47-0.5 DUP	92				X							07/11/18	14:46	X	X	X							X			
13	B47-1.5	93				X							07/11/18	14:48				X									
14	B47-3	94				X							07/11/18	14:50				X									
15	B48-0.5	95				X							07/11/18	14:56	X	X	X							X			
16	B48-1.5	96				X							07/11/18	14;58				X									
17	B48-3	97				X							07/11/18	15:00				X									
18	B49-0.5	98				X							07/11/18	15:04	X	X	X							X			
19	B49-1.5	99				X							07/11/18	15;06				X									
20	B49-3	100				X							07/11/18	15:08				X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
Desi S.	7/12/18	1450		7/12/18	1450	Sample condition (circle): Chilled Intact
	7/12/18	1630		7/12/18	1630	

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(0811)

Chain-of-Custody Record

EFI_071118-16

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: VOCs (8260)	Method: PCBs(8082)	Method: TPHcc(8015)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Glass	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	TB-2	101			X								07/11/18	--				X						X			X			
2	EB-2	102			X								07/11/18	15:30	X	X	X	X	X	X				X	X		X			
3																														
4																														
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18																														
19																														
20																														

Relinquished by	Date	Time	Received by	Date	Time	Remarks
DESI S.	7/12/18	400	[illegible]	7/12/18	1120	Sample condition (circle): Chilled Intact
[illegible]	7/12/18	1630	[illegible]	7/12/18	1630	

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WORK ORDER NUMBER: 18-07-0811

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: EFI GLOBAL

DATE: 07 / / 2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.0 °C (w/ CF): 2.5 °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: SOB

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SOB

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

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 (-102)			
☐ 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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: 180709B)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOAna₂ ☐ 100PJ ☐ 100PJna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9) ☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ~~☑ 250PB~~ ☑ 250PBn (pH≤2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB ☑ 1AGB (2) ☐ 1AGBna₂ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: TJB

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WORK ORDER NUMBER: 18-07-0811

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: EPI GLOBAL

DATE: 07/12/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.3 °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: 803

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 803
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1013

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			
Acid/base preserved samples - pH within acceptable range	☑ 07/12/18	☐	☑
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**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: TV

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WORK ORDER NUMBER: 18-07-0811

SAMPLE ANOMALY REPORT

DATE: 07 / 12 / 2018

SAMPLES, CONTAINERS, AND LABELS:

Comments

- ☐ 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)
- ☐ pH outside acceptable range (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.

(AB) labeled as
B34-0.5 Dup.
7/11/18 @ 1115

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: TB

Reviewed by: [illegible]

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-07-0811

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: Taft Charter High School

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 08/08/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-07-0811

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Work Order Narrative

Work Order: 18-07-0811 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/12/18. They were assigned to Work Order 18-07-0811.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0811
		Project Name:	Taft Charter High School
		PO Number:	
		Date/Time Received:	07/12/18 16:30
		Number of Containers:	109
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B24-1.5	18-07-0811-15	07/11/18 08:06	1	Solid
B34-1.5	18-07-0811-49	07/11/18 11:17	1	Solid
B37-0.5	18-07-0811-58	07/11/18 12:11	1	Solid
B37-1.5	18-07-0811-60	07/11/18 12:13	1	Solid
B43-1.5	18-07-0811-79	07/11/18 14:02	1	Solid
B49-1.5	18-07-0811-99	07/11/18 15:06	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 1 of 3

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B24-1.5 (18-07-0811-15)						
Barium	157		0.518	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.467		0.259	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.87		0.518	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.0		0.259	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.21		0.259	mg/kg	EPA 6010B	EPA 3050B
Copper	24.2		0.518	mg/kg	EPA 6010B	EPA 3050B
Lead	5.19		0.518	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.05		0.259	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.4		0.259	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.04		0.777	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.0		0.259	mg/kg	EPA 6010B	EPA 3050B
Zinc	58.2		1.04	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.89		1.00	mg/kg	EPA 6020	EPA 3050B
B34-1.5 (18-07-0811-49)						
Barium	63.2		0.510	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.436		0.255	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.62		0.510	mg/kg	EPA 6010B	EPA 3050B
Chromium	30.2		0.255	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.09		0.255	mg/kg	EPA 6010B	EPA 3050B
Copper	29.2		0.510	mg/kg	EPA 6010B	EPA 3050B
Lead	3.29		0.510	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.37		0.255	mg/kg	EPA 6010B	EPA 3050B
Nickel	27.1		0.255	mg/kg	EPA 6010B	EPA 3050B
Selenium	5.12		0.765	mg/kg	EPA 6010B	EPA 3050B
Vanadium	34.4		0.255	mg/kg	EPA 6010B	EPA 3050B
Zinc	87.9		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	10.7		1.00	mg/kg	EPA 6020	EPA 3050B
B37-0.5 (18-07-0811-58)						
Lead	0.905		0.100	mg/L	EPA 6010B	T22.11.5. AII

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* MDL is shown

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 2 of 3

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B37-1.5 (18-07-0811-60)						
Barium	149		0.513	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.953		0.256	mg/kg	EPA 6010B	EPA 3050B
Cadmium	3.23		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.3		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	18.2		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	48.5		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	156		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.51		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	87.1		0.256	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.21		0.769	mg/kg	EPA 6010B	EPA 3050B
Vanadium	33.1		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	802		1.03	mg/kg	EPA 6010B	EPA 3050B
Arsenic	17.0		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.296		0.0806	mg/kg	EPA 7471A	EPA 7471A Total
B43-1.5 (18-07-0811-79)						
Barium	137		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.426		0.238	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.56		0.476	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.9		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.12		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	28.9		0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	34.7		0.476	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.64		0.238	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.2		0.238	mg/kg	EPA 6010B	EPA 3050B
Thallium	0.787		0.714	mg/kg	EPA 6010B	EPA 3050B
Vanadium	28.4		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	127		0.952	mg/kg	EPA 6010B	EPA 3050B
Arsenic	12.2		1.00	mg/kg	EPA 6020	EPA 3050B

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* MDL is shown

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		Page 3 of 3

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B49-1.5 (18-07-0811-99)						
Barium	84.9		0.510	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.776		0.510	mg/kg	EPA 6010B	EPA 3050B
Chromium	19.8		0.255	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.39		0.255	mg/kg	EPA 6010B	EPA 3050B
Copper	30.6		0.510	mg/kg	EPA 6010B	EPA 3050B
Lead	2.60		0.510	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	12.0		0.255	mg/kg	EPA 6010B	EPA 3050B
Nickel	11.9		0.255	mg/kg	EPA 6010B	EPA 3050B
Selenium	12.9		0.765	mg/kg	EPA 6010B	EPA 3050B
Vanadium	23.6		0.255	mg/kg	EPA 6010B	EPA 3050B
Zinc	62.7		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.75		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.121		0.0862	mg/kg	EPA 7471A	EPA 7471A Total

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B24-1.5	**18-07-0811-15-A**	**07/11/18 08:06**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:27**	**180728L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.777	1.04	
Barium	157	0.518	1.04	
Beryllium	0.467	0.259	1.04	
Cadmium	1.87	0.518	1.04	
Chromium	17.0	0.259	1.04	
Cobalt	7.21	0.259	1.04	
Copper	24.2	0.518	1.04	
Lead	5.19	0.518	1.04	
Molybdenum	5.05	0.259	1.04	
Nickel	26.4	0.259	1.04	
Selenium	2.04	0.777	1.04	
Silver	ND	0.259	1.04	
Thallium	ND	0.777	1.04	
Vanadium	32.0	0.259	1.04	
Zinc	58.2	1.04	1.04	

B34-1.5	**18-07-0811-49-A**	**07/11/18 11:17**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:29**	**180728L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Barium	63.2	0.510	1.02	
Beryllium	0.436	0.255	1.02	
Cadmium	1.62	0.510	1.02	
Chromium	30.2	0.255	1.02	
Cobalt	8.09	0.255	1.02	
Copper	29.2	0.510	1.02	
Lead	3.29	0.510	1.02	
Molybdenum	5.37	0.255	1.02	
Nickel	27.1	0.255	1.02	
Selenium	5.12	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	34.4	0.255	1.02	
Zinc	87.9	1.02	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-1.5	**18-07-0811-60-A**	**07/11/18 12:13**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:30**	**180728L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Barium	149	0.513	1.03	
Beryllium	0.953	0.256	1.03	
Cadmium	3.23	0.513	1.03	
Chromium	33.3	0.256	1.03	
Cobalt	18.2	0.256	1.03	
Copper	48.5	0.513	1.03	
Lead	156	0.513	1.03	
Molybdenum	3.51	0.256	1.03	
Nickel	87.1	0.256	1.03	
Selenium	2.21	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	33.1	0.256	1.03	
Zinc	802	1.03	1.03	

B43-1.5	**18-07-0811-79-A**	**07/11/18 14:02**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:30**	**180728L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Barium	137	0.476	0.952	
Beryllium	0.426	0.238	0.952	
Cadmium	1.56	0.476	0.952	
Chromium	17.9	0.238	0.952	
Cobalt	7.12	0.238	0.952	
Copper	28.9	0.476	0.952	
Lead	34.7	0.476	0.952	
Molybdenum	4.64	0.238	0.952	
Nickel	22.2	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	0.787	0.714	0.952	
Vanadium	28.4	0.238	0.952	
Zinc	127	0.952	0.952	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49-1.5	**18-07-0811-99-A**	**07/11/18 15:06**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:31**	**180728L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Barium	84.9	0.510	1.02	
Beryllium	ND	0.255	1.02	
Cadmium	0.776	0.510	1.02	
Chromium	19.8	0.255	1.02	
Cobalt	5.39	0.255	1.02	
Copper	30.6	0.510	1.02	
Lead	2.60	0.510	1.02	
Molybdenum	12.0	0.255	1.02	
Nickel	11.9	0.255	1.02	
Selenium	12.9	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	23.6	0.255	1.02	
Zinc	62.7	1.02	1.02	

Method Blank	**097-01-002-26743**	**N/A**	**Solid**	**ICP 8300**	**07/28/18**	**08/06/18 14:36**	**180728L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	ND	0.505	1.01	
Beryllium	ND	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	ND	0.253	1.01	
Cobalt	ND	0.253	1.01	
Copper	ND	0.505	1.01	
Lead	ND	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	ND	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	ND	0.253	1.01	
Zinc	ND	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-0.5	**18-07-0811-58-A**	**07/11/18 12:11**	**Solid**	**ICP 8300**	**07/26/18**	**08/03/18 15:28**	**180728LA5**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	0.905	0.100	1.00	

Method Blank	**097-05-006-9669**	**N/A**	**Aqueous**	**ICP 8300**	**07/26/18**	**08/01/18 19:26**	**180728LA5**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B24-1.5	**18-07-0811-15-A**	**07/11/18 08:06**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 17:50**	**180728L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.89	1.00	1.00	

B34-1.5	**18-07-0811-49-A**	**07/11/18 11:17**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 17:53**	**180728L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	10.7	1.00	1.00	

B37-1.5	**18-07-0811-60-A**	**07/11/18 12:13**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 17:57**	**180728L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	17.0	1.00	1.00	

B43-1.5	**18-07-0811-79-A**	**07/11/18 14:02**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 18:00**	**180728L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	12.2	1.00	1.00	

B49-1.5	**18-07-0811-99-A**	**07/11/18 15:06**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 18:04**	**180728L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.75	1.00	1.00	

Method Blank	**099-15-621-1701**	**N/A**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 17:18**	**180728L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B24-1.5	**18-07-0811-15-A**	**07/11/18 08:06**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:53**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B34-1.5	**18-07-0811-49-A**	**07/11/18 11:17**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:56**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B37-1.5	**18-07-0811-60-A**	**07/11/18 12:13**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:58**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.296	0.0806	1.00	

B43-1.5	**18-07-0811-79-A**	**07/11/18 14:02**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 16:00**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B49-1.5	**18-07-0811-99-A**	**07/11/18 15:06**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 16:03**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.121	0.0862	1.00	

Method Blank	**099-16-272-4024**	**N/A**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:17**	**180731L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B24-1.5	**Sample**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:27**	**180728S03**
B24-1.5	**Matrix Spike**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:28**	**180728S03**
B24-1.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:29**	**180728S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	4.894	20	5.430	22	50-115	10	0-20	3
Barium	157.2	25.00	231.5	4X	222.5	4X	75-125	4X	0-20	Q
Beryllium	0.4671	25.00	24.86	98	23.92	94	75-125	4	0-20	
Cadmium	1.867	25.00	29.85	112	28.55	107	75-125	4	0-20	
Chromium	17.00	25.00	42.83	103	40.84	95	75-125	5	0-20	
Cobalt	7.208	25.00	30.96	95	30.05	91	75-125	3	0-20	
Copper	24.17	25.00	47.65	94	45.85	87	75-125	4	0-20	
Lead	5.195	25.00	30.81	102	29.27	96	75-125	5	0-20	
Molybdenum	5.047	25.00	23.68	75	22.69	71	75-125	4	0-20	3
Nickel	26.45	25.00	43.55	68	42.26	63	75-125	3	0-20	3
Selenium	2.037	25.00	23.45	86	21.14	76	75-125	10	0-20	
Silver	ND	12.50	12.77	102	12.17	97	75-125	5	0-20	
Thallium	ND	25.00	23.22	93	22.81	91	75-125	2	0-20	
Vanadium	32.02	25.00	55.43	94	53.28	85	75-125	4	0-20	
Zinc	58.24	25.00	83.10	99	78.84	82	75-125	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1867-1	**Sample**	**Aqueous**	**ICP 8300**	**07/28/18**	**08/01/18 19:44**	**180728SA5**
18-07-1867-1	**Matrix Spike**	**Aqueous**	**ICP 8300**	**07/28/18**	**08/01/18 19:45**	**180728SA5**
18-07-1867-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 8300**	**07/28/18**	**08/01/18 19:46**	**180728SA5**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	ND	5.000	5.349	107	5.318	106	75-125	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B24-1.5	**Sample**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 17:50**	**180728S02**
B24-1.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 17:25**	**180728S02**
B24-1.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 17:39**	**180728S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	5.893	25.00	30.60	99	31.04	101	72-132	1	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-07-1559-1	**Sample**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:22**	**180731S02**
18-07-1559-1	**Matrix Spike**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:24**	**180731S02**
18-07-1559-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:26**	**180731S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7756	93	0.7511	90	71-137	3	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B24-1.5	**Sample**	**Solid**	**ICP/MS 05**	**07/28/18 00:00**	**08/01/18 17:50**	**180728S02**
B24-1.5	**PDS**	**Solid**	**ICP/MS 05**	**07/28/18 00:00**	**08/01/18 17:43**	**180728S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	5.893	25.00	33.02	109	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26743	**LCS**	**Solid**	**ICP 8300**	**07/28/18**	**08/02/18 20:06**	**180728L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	23.59	94	80-120	73-127	
Barium	25.00	25.71	103	80-120	73-127	
Beryllium	25.00	24.88	100	80-120	73-127	
Cadmium	25.00	27.90	112	80-120	73-127	
Chromium	25.00	25.65	103	80-120	73-127	
Cobalt	25.00	27.07	108	80-120	73-127	
Copper	25.00	24.75	99	80-120	73-127	
Lead	25.00	24.88	100	80-120	73-127	
Molybdenum	25.00	23.38	94	80-120	73-127	
Nickel	25.00	28.22	113	80-120	73-127	
Selenium	25.00	22.67	91	80-120	73-127	
Silver	12.50	11.43	91	80-120	73-127	
Thallium	25.00	24.12	96	80-120	73-127	
Vanadium	25.00	24.34	97	80-120	73-127	
Zinc	25.00	26.36	105	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-05-006-9669	**LCS**	**Aqueous**	**ICP 8300**	**07/26/18**	**08/01/18 19:27**	**180728LA5**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	5.000	4.814	96	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1701	**LCS**	**Solid**	**ICP/MS 05**	**07/28/18**	**08/01/18 17:21**	**180728L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	27.20	109	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4024	**LCS**	**Solid**	**Mercury 08**	**07/31/18**	**07/31/18 15:19**	**180731L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	1.012	121	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-07-0811

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 6010B	T22.11.5. AII	1080	ICP 8300	1
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1

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Glossary of Terms and Qualifiers

Work Order: 18-07-0811 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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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Thursday, July 26, 2018 12:55 PM
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

Steve,

I'd like to request lead STLC analysis for sample B37-0.5 and the following samples for arsenic by 6020 and Title 22 Metals by 6010B/7471A:

- B2-1.5
- B9-1.5
- B11-1.5
- B24-1.5
- B34-1.5
- B37-1.5
- B41-1.5
- B43-1.5
- B49-1.5

Please let me know if you have any questions. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, July 24, 2018 4:38 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0811

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_071118-1

18-07-0811

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround: Normal / Standard (7-day TAT)	Turnaround: 72 Hour	Turnaround: 48 Hours	Turnaround: 24 Hours
1	B21-0.5					X							07/11/18	7:31	X	X	X	X							X			
2	B21-0.5 DUP					X							07/11/18	7:31	X	X	X								X			
3	B21-1.5					X							07/11/18	7:32						X								
4	B21-3					X							07/11/18	7:33						X								
5	B22-0.5					X							07/11/18	7:41	X	X	X								X			
6	B22-0.5 DUP					X							07/11/18	7:41	X	X	X								X			
7	B22-1.5					X							07/11/18	7:42						X								
8	B22-3					X							07/11/18	7:43						X								
9	B23-0.5					X							07/11/18	7:51	X	X	X								X			
10	B23-0.5 DUP					X							07/11/18	7:51	X	X	X								X			
11	B23-1.5					X							07/11/18	7:52						X								
12	B23-3					X							07/11/18	7:53						X								
13	B24-0.5					X							07/11/18	8:05	X	X	X								X			
14	B24-0.5 DUP					X							07/11/18	8:05	X	X	X								X			
15	B24-1.5					X							07/11/18	8:06						X								
16	B24-3					X							07/11/18	8:07						X								
17	B25-0.5					x							07/11/18	8:40	X	X	X								X			
18	B25-0.5 DUP					x							07/11/18	8:40	X	X	X								X			
19	B25-1.5					x							07/11/18	8:42						X								
20	B25-3					x							07/11/18	8:43						X								

Relinquished by	Date	Time	Received by	Date	Time	Remarks
DESI S.	7/12/18	1400		7/12/18	1450	Sample condition (circle): Chilled Intact
	7/12/18	1630		7/12/18	1630	

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0811

Chain-of-Custody Record

EFI_071118-2

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

	Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
21	1	B26-0.5	21				X							07/11/18	8:50	X	X	X	X							X			
22	2	B26-0.5 DUP	22				X							07/11/18	8:50	X	X	X								X			
23	3	B26-1.5	23				X							07/11/18	8:52					X									
24	4	B26-3	24				X							07/11/18	8:54					X									
25	5	B27-0.5	25				X							07/11/18	9:25	X	X	X								X			
26	6	B27-1.5	26				X							07/11/18	9:27					X									
	7	B27-3	27				X							07/11/18	9:29					X									
	8	B28-0.5	28				X							07/11/18	9:45	X	X	X								X			
	9	B28-1.5	29				X							07/11/18	9:47					X									
	10	B28-3	30				X							07/11/18	9:49					X									
	11	B29-0.5	31				X							07/11/18	10:00	X	X	X								X			
	12	B29-1.5	32				X							07/11/18	10:02					X									
	13	B29-3	33				X							07/11/18	10:04					X									
	14	B30-0.5	34				X							07/11/18	10:16	X	X	X								X			
	15	B30-1.5	35				X							07/11/18	10:18					X									
	16	B30-3	36				X							07/11/18	10:20					X									
	17	B31-0.5	37				X							07/11/18	10:41	X	X	X								X			
	18	B31-0.5 DUP	38				X							07/11/18	10:41	X	X	X								X			
	19	B31-1.5	39				X							07/11/18	10:43					X									
	20	B31-3	40				X							07/11/18	10:45					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
DESI S.	7/12/18	1458	[illegible]	7/12/18	1450	Sample condition (circle): Chilled Intact
[illegible]	7/12/18	1630	[illegible]	7/12/18	1630	

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Chain-of-Custody Record

EFI_071118-3

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B32-0.5	41				X							07/11/18	10:48	X	X	X	X							X			
2	B32-01.5	42				X							07/11/18	10:50					X									
3	B32-3	43				X							07/11/18	10:52					X									
4	B33-0.5	44				X							07/11/18	11:00	X	X	X								X			
5	B33-1.5	45				X							07/11/18	11:02					X									
6	B33-3	46				X							07/11/18	11:04					X									
7	B34-0.5	47				X							07/11/18	11:15	X	X	X								X			
8	B34-1.5	48				X							07/11/18	11:15					X									
9	B34-1.5	49				X							07/11/18	11:17					X									
10	B34-3	50				X							07/11/18	11:19					X									
11	B35-0.5	51				X							07/11/18	11:51	X	X	X								X			
12	B35-0.5 DUP	52				X							07/11/18	11:51	X	X	X								X			
13	B35-1.5	53				X							07/11/18	11:53					X									
14	B35-3	54				X							07/11/18	11:55					X									
15	B36-0.5	55				X							07/11/18	12:00	X	X	X								X			
16	B36-1.5	56				X							07/11/18	12:02					X									
17	B36-3	57				X							07/11/18	12:04					X									
18	B37-0.5	58				X							07/11/18	12:11	X	X	X								X			
19	B37-0.5 DUP	59				X							07/11/18	12:11	X	X	X								X			
20	B37-1.5	60				X							07/11/18	12:13					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
Desi S.	7/12/18	1450	[illegible]	7/12/18	1450	Sample condition (circle): Chilled Intact
[illegible]	7/12/18	1630	[illegible]	7/12/18	1630	

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Chain-of-Custody Record

EFI_071118-4

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B37-3	61				X							07/11/18	12:15					X									
2	B38-0.5	62				X							07/11/18	12:24	X	X	X	X							X			
3	B38-1.5	63				X							07/11/18	12:26					X									
4	B38-3	64				X							07/11/18	12:28					X									
5	B39-0.5	65				X							07/11/18	12:40	X	X	X								X			
6	B39-0.5 DUP	66				X							07/11/18	12:40	X	X	X								X			
7	B39-1.5	67				X							07/11/18	12:42					X									
8	B39-3	68				X							07/11/18	12:44					X									
9	B40-0.5	69				X							07/11/18	12:50	X	X	X								X			
10	B40-1.5	70				X							07/11/18	12:52	X	X	X								X			
11	B40-3	71				X							07/11/18	12:54					X									
12	B41-0.5	72				X							07/11/18	13:00	X	X	X								X			
13	B41-1.5	73				X							07/11/18	13:02	X	X	X								X			
14	B41-3	74				X							07/11/18	13:04					X									
15	B42-0.5	75				X							07/11/18	13:46	X	X	X								X			
16	B42-1.5	76				X							07/11/18	13:48					X									
17	B42-3	77				X							07/11/18	13:50					X									
18	B43-0.5	78				X							07/11/18	14:00	X	X	X								X			
19	B43-1.5	79				X							07/11/18	14:02					X									
20	B43-3	80				X							07/11/18	14:04					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	7/12/18	1450	[signature]	7/12/18	1450	Sample condition (circle): Chilled Intact
[signature]	7/12/18	1630	[signature]	7/12/18	1630	

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Chain-of-Custody Record

EFI_071118-5

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B44-0.5	81				X							07/11/18	14:10	X	X	X							X			
2	B44-1.5	82				X							07/11/18	14:12				X									
3	B44-3	83				X							07/11/18	14:14				X									
4	B45-0.5	84				X							07/11/18	14:16	X	X	X							X			
5	B45-0.5 DUP	85				X							07/11/18	14:16	X	X	X							X			
6	B45-1.5	86				X							07/11/18	14;18				X									
7	B45-3	87				X							07/11/18	14:20				X									
8	B46-0.5	88				X							07/11/18	14:32	X	X	X										
9	B46-1.5	89				X							07/11/18	14:34				X									
10	B46-3	90				X							07/11/18	14:36				X									
11	B47-0.5	91				X							07/11/18	14:46	X	X	X							X			
12	B47-0.5 DUP	92				X							07/11/18	14:46	X	X	X							X			
13	B47-1.5	93				X							07/11/18	14:48				X									
14	B47-3	94				X							07/11/18	14:50				X									
15	B48-0.5	95				X							07/11/18	14:56	X	X	X							X			
16	B48-1.5	96				X							07/11/18	14;58				X									
17	B48-3	97				X							07/11/18	15:00				X									
18	B49-0.5	98				X							07/11/18	15:04	X	X	X							X			
19	B49-1.5	99				X							07/11/18	15;06				X									
20	B49-3	100				X							07/11/18	15:08				X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
Desi S.	7/12/18	1450		7/12/18	1450	Sample condition (circle): Chilled Intact
	7/12/18	1630		7/12/18	1630	

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Chain-of-Custody Record

EFI_071118-16

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: VOCs (8260)	Method: PCBs(8082)	Method: TPHcc(8015)	Method:	Method:	Method:	Method:	Method:	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Glass	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	TB-2	101			X								07/11/18	--				X											X			X			
2	EB-2	102			X								07/11/18	15:30	X	X	X	X	X	X									X	X		X			
3																																			
4																																			
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Relinquished by	Date	Time	Received by	Date	Time	Remarks
DESI S.	7/12/18	400		7/12/18	1120	Sample condition (circle): Chilled Intact
	7/12/18	1630		7/12/18	1630	

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WORK ORDER NUMBER: 18-07-0811

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: EFI GLOBAL

DATE: 07 / / 2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.0 °C (w/ CF): 2.5 °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: 503

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 503

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑ PS	☑	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☑ Number of containers (-102)			
☐ 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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: 180709B)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOAna₂ ☐ 100PJ ☐ 100PJna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ~~☐ 250PB~~ ☑ 250PBn (pH≤2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB

☑ 1AGB (2) ☐ 1AGBna₂ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (2) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: 7/8

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WORK ORDER NUMBER: 18-07-0811

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: EPI GLOBAL

DATE: 07/12/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.3 °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: 803

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 803
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1013

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			
Acid/base preserved samples - pH within acceptable range	☑ 07/12/18	☐	☑
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**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: TV

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WORK ORDER NUMBER: 18-07-0811

SAMPLE ANOMALY REPORT

DATE: 07 / 12 / 2018

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)
- ☐ pH outside acceptable range (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

(48) labeled as
B34-0.5 Dup.
7/11/18 @ 1115

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: TB

Reviewed by: [illegible]

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Supplemental Report 2

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-07-0811

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: Taft Charter High School

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 09/05/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-07-0811

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Work Order Narrative

Work Order: 18-07-0811 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/12/18. They were assigned to Work Order 18-07-0811.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-07-0811
		Project Name:	Taft Charter High School
		PO Number:	
		Date/Time Received:	07/12/18 16:30
		Number of Containers:	109
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B37-1.5	18-07-0811-60	07/11/18 12:13	1	Solid
B37-3	18-07-0811-61	07/11/18 12:15	1	Solid
B43-3	18-07-0811-80	07/11/18 14:04	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-07-0811
	5261 West Imperial Highway	Project Name:	Taft Charter High School
	Los Angeles, CA 90045-6231	Received:	07/12/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B37-1.5 (18-07-0811-60)						
Lead	4.74		0.100	mg/L	EPA 6010B	T22.11.5. AII
B37-3 (18-07-0811-61)						
Barium	80.0		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.426		0.248	mg/kg	EPA 6010B	EPA 3050B
Chromium	27.1		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.38		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	36.2		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	11.1		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	16.2		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	16.1		0.248	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.99		0.743	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.21		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	41.1		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	111		0.990	mg/kg	EPA 6010B	EPA 3050B
Arsenic	13.5		1.00	mg/kg	EPA 6020	EPA 3050B
B43-3 (18-07-0811-80)						
Barium	75.2		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.365		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.21		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	9.73		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	4.29		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	24.5		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	9.02		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.03		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	21.1		0.246	mg/kg	EPA 6010B	EPA 3050B
Vanadium	15.9		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	51.8		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.33		1.00	mg/kg	EPA 6020	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-3	**18-07-0811-61-A**	**07/11/18 12:15**	**Solid**	**ICP 8300**	**08/23/18**	**08/27/18 15:05**	**180823L08A**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	80.0	0.495	0.990	
Beryllium	0.426	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	27.1	0.248	0.990	
Cobalt	5.38	0.248	0.990	
Copper	36.2	0.495	0.990	
Lead	11.1	0.495	0.990	
Molybdenum	16.2	0.248	0.990	
Nickel	16.1	0.248	0.990	
Selenium	4.99	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	1.21	0.743	0.990	
Vanadium	41.1	0.248	0.990	
Zinc	111	0.990	0.990	

B43-3	**18-07-0811-80-A**	**07/11/18 14:04**	**Solid**	**ICP 8300**	**08/27/18**	**08/30/18 22:43**	**180827L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	75.2	0.493	0.985	
Beryllium	0.365	0.246	0.985	
Cadmium	1.21	0.493	0.985	
Chromium	9.73	0.246	0.985	
Cobalt	4.29	0.246	0.985	
Copper	24.5	0.493	0.985	
Lead	9.02	0.493	0.985	
Molybdenum	5.03	0.246	0.985	
Nickel	21.1	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	15.9	0.246	0.985	
Zinc	51.8	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Taft Charter High School			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	**097-01-002-26883**	**N/A**	**Solid**	**ICP 8300**	**08/23/18**	**08/29/18 10:27**	**180823L08A**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Barium	ND	0.485	0.971	
Beryllium	ND	0.243	0.971	
Cadmium	ND	0.485	0.971	
Chromium	ND	0.243	0.971	
Cobalt	ND	0.243	0.971	
Copper	ND	0.485	0.971	
Lead	ND	0.485	0.971	
Molybdenum	ND	0.243	0.971	
Nickel	ND	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	ND	0.243	0.971	
Zinc	ND	0.971	0.971	

Method Blank	**097-01-002-26890**	**N/A**	**Solid**	**ICP 8300**	**08/27/18**	**08/30/18 22:19**	**180827L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	ND	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	ND	0.246	0.985	
Cobalt	ND	0.246	0.985	
Copper	ND	0.493	0.985	
Lead	ND	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	ND	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	ND	0.246	0.985	
Zinc	ND	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
		Units:	mg/L
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-1.5	**18-07-0811-60-A**	**07/11/18 12:13**	**Solid**	**ICP 8300**	**08/22/18**	**08/28/18 17:45**	**180824LA1**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	4.74	0.100	1.00	

Method Blank	**097-05-006-9699**	**N/A**	**Aqueous**	**ICP 8300**	**08/22/18**	**08/28/18 17:34**	**180824LA1**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-3	**18-07-0811-61-A**	**07/11/18 12:15**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/27/18 20:36**	**180823L04A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	13.5	1.00	1.00	

B43-3	**18-07-0811-80-A**	**07/11/18 14:04**	**Solid**	**ICP/MS 05**	**08/27/18**	**08/29/18 23:02**	**180827L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.33	1.00	1.00	

Method Blank	**099-15-621-1722**	**N/A**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/27/18 16:53**	**180823L04A**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

Method Blank	**099-15-621-1725**	**N/A**	**Solid**	**ICP/MS 05**	**08/27/18**	**08/29/18 22:27**	**180827L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: Taft Charter High School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37-3	**18-07-0811-61-A**	**07/11/18 12:15**	**Solid**	**Mercury 08**	**08/23/18**	**08/23/18 17:43**	**180822L04**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	BU,ET

B43-3	**18-07-0811-80-A**	**07/11/18 14:04**	**Solid**	**Mercury 07**	**08/27/18**	**08/27/18 16:29**	**180827L03**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	BU,ET

Method Blank	**099-16-272-4076**	**N/A**	**Solid**	**Mercury 08**	**08/22/18**	**08/22/18 18:04**	**180822L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Method Blank	**099-16-272-4084**	**N/A**	**Solid**	**Mercury 07**	**08/27/18**	**08/27/18 15:51**	**180827L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1456-2	**Sample**	**Solid**	**ICP 8300**	**08/23/18**	**08/29/18 10:31**	**180823S08**
18-08-1456-2	**Matrix Spike**	**Solid**	**ICP 8300**	**08/23/18**	**08/29/18 10:33**	**180823S08**
18-08-1456-2	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/23/18**	**08/29/18 10:35**	**180823S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.404	22	6.060	24	50-115	11	0-20	3
Barium	40.85	25.00	66.61	103	67.59	107	75-125	1	0-20	
Beryllium	0.4590	25.00	23.28	91	23.62	93	75-125	1	0-20	
Cadmium	ND	25.00	26.92	108	27.66	111	75-125	3	0-20	
Chromium	ND	25.00	27.33	109	27.72	111	75-125	1	0-20	
Cobalt	0.7061	25.00	26.50	103	27.17	106	75-125	2	0-20	
Copper	15.88	25.00	37.80	88	38.41	90	75-125	2	0-20	
Lead	9.039	25.00	35.49	106	36.37	109	75-125	2	0-20	
Molybdenum	ND	25.00	19.14	77	19.52	78	75-125	2	0-20	
Nickel	2.389	25.00	33.33	124	34.06	127	75-125	2	0-20	3
Selenium	ND	25.00	23.75	95	24.10	96	75-125	1	0-20	
Silver	ND	12.50	11.10	89	11.25	90	75-125	1	0-20	
Thallium	0.9825	25.00	22.55	86	23.48	90	75-125	4	0-20	
Vanadium	2.642	25.00	27.43	99	27.87	101	75-125	2	0-20	
Zinc	13.88	25.00	42.63	115	43.71	119	75-125	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1307-1	**Sample**	**Solid**	**ICP 8300**	**08/27/18**	**08/30/18 22:22**	**180827S03**
18-08-1307-1	**Matrix Spike**	**Solid**	**ICP 8300**	**08/27/18**	**08/30/18 22:23**	**180827S03**
18-08-1307-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/27/18**	**08/30/18 22:25**	**180827S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	8.568	34	9.039	36	50-115	5	0-20	3
Barium	9.806	25.00	41.48	127	38.28	114	75-125	8	0-20	3
Beryllium	ND	25.00	23.19	93	23.74	95	75-125	2	0-20	
Cadmium	ND	25.00	24.40	98	24.96	100	75-125	2	0-20	
Chromium	0.6994	25.00	25.21	98	26.00	101	75-125	3	0-20	
Cobalt	0.2766	25.00	24.29	96	24.90	99	75-125	2	0-20	
Copper	1.048	25.00	25.42	97	26.06	100	75-125	2	0-20	
Lead	2.583	25.00	30.11	110	31.09	114	75-125	3	0-20	
Molybdenum	ND	25.00	24.85	99	25.16	101	75-125	1	0-20	
Nickel	0.5108	25.00	24.42	96	24.93	98	75-125	2	0-20	
Selenium	ND	25.00	19.57	78	19.13	77	75-125	2	0-20	
Silver	ND	12.50	3.328	27	3.212	26	75-125	4	0-20	3
Thallium	ND	25.00	23.90	96	24.21	97	75-125	1	0-20	
Vanadium	2.733	25.00	27.04	97	27.58	99	75-125	2	0-20	
Zinc	3.961	25.00	28.63	99	29.36	102	75-125	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: Taft Charter High School			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-0436-2	**Sample**	**Concrete**	**ICP 8300**	**08/22/18**	**08/28/18 17:39**	**180824SA1**
18-08-0436-2	**Matrix Spike**	**Concrete**	**ICP 8300**	**08/22/18**	**08/28/18 17:40**	**180824SA1**
18-08-0436-2	**Matrix Spike Duplicate**	**Concrete**	**ICP 8300**	**08/22/18**	**08/28/18 17:42**	**180824SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	ND	5.000	5.483	110	5.558	111	75-125	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1169-10	**Sample**	**Sediment**	**ICP/MS 05**	**08/23/18**	**08/27/18 17:18**	**180823S04**
18-08-1169-10	**Matrix Spike**	**Sediment**	**ICP/MS 05**	**08/23/18**	**08/27/18 17:04**	**180823S04**
18-08-1169-10	**Matrix Spike Duplicate**	**Sediment**	**ICP/MS 05**	**08/23/18**	**08/27/18 17:07**	**180823S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	3.541	25.00	31.78	113	32.53	116	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1885-1	**Sample**	**Solid**	**ICP/MS 05**	**08/27/18**	**08/29/18 22:59**	**180827S02**
18-08-1885-1	**Matrix Spike**	**Solid**	**ICP/MS 05**	**08/27/18**	**08/30/18 11:41**	**180827S02**
18-08-1885-1	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**08/27/18**	**08/29/18 22:37**	**180827S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	13.10	25.00	40.83	111	43.27	121	72-132	6	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1307-1	**Sample**	**Solid**	**Mercury 07**	**08/27/18**	**08/27/18 15:56**	**180827S03**
18-08-1307-1	**Matrix Spike**	**Solid**	**Mercury 07**	**08/27/18**	**08/27/18 15:58**	**180827S03**
18-08-1307-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 07**	**08/27/18**	**08/27/18 16:00**	**180827S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7050	84	0.7429	89	71-137	5	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1363-1	**Sample**	**Solid**	**Mercury 08**	**08/22/18**	**08/22/18 18:09**	**180822S04**
18-08-1363-1	**Matrix Spike**	**Solid**	**Mercury 08**	**08/22/18**	**08/22/18 18:11**	**180822S04**
18-08-1363-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**08/22/18**	**08/22/18 18:13**	**180822S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7481	90	0.8083	97	71-137	8	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-08-0436-2	**Sample**	**Concrete**	**ICP 8300**	**08/22/18 00:00**	**08/28/18 17:39**	**180824SA1**
18-08-0436-2	**PDS**	**Concrete**	**ICP 8300**	**08/22/18 00:00**	**08/28/18 17:43**	**180824SA1**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Lead	ND	5.000	5.219	104	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-08-1169-10	**Sample**	**Sediment**	**ICP/MS 05**	**08/23/18 00:00**	**08/27/18 17:18**	**180823S04**
18-08-1169-10	**PDS**	**Sediment**	**ICP/MS 05**	**08/23/18 00:00**	**08/27/18 17:11**	**180823S04**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	3.541	25.00	30.79	109	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-08-1885-1	**Sample**	**Solid**	**ICP/MS 05**	**08/27/18 00:00**	**08/29/18 22:59**	**180827S02**
18-08-1885-1	**PDS**	**Solid**	**ICP/MS 05**	**08/27/18 00:00**	**08/29/18 22:41**	**180827S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	13.10	25.00	38.02	100	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26883	**LCS**	**Solid**	**ICP 8300**	**08/23/18**	**08/29/18 10:29**	**180823L08A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	22.07	88	80-120	73-127	
Barium	25.00	23.96	96	80-120	73-127	
Beryllium	25.00	22.60	90	80-120	73-127	
Cadmium	25.00	23.82	95	80-120	73-127	
Chromium	25.00	23.77	95	80-120	73-127	
Cobalt	25.00	24.06	96	80-120	73-127	
Copper	25.00	23.36	93	80-120	73-127	
Lead	25.00	27.70	111	80-120	73-127	
Molybdenum	25.00	23.30	93	80-120	73-127	
Nickel	25.00	26.18	105	80-120	73-127	
Selenium	25.00	22.36	89	80-120	73-127	
Silver	12.50	11.33	91	80-120	73-127	
Thallium	25.00	24.51	98	80-120	73-127	
Vanadium	25.00	22.96	92	80-120	73-127	
Zinc	25.00	24.82	99	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: Taft Charter High School			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26890	**LCS**	**Solid**	**ICP 8300**	**08/27/18**	**08/30/18 22:20**	**180827L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	22.78	91	80-120	73-127	
Barium	25.00	25.10	100	80-120	73-127	
Beryllium	25.00	23.66	95	80-120	73-127	
Cadmium	25.00	24.99	100	80-120	73-127	
Chromium	25.00	24.45	98	80-120	73-127	
Cobalt	25.00	24.84	99	80-120	73-127	
Copper	25.00	24.30	97	80-120	73-127	
Lead	25.00	27.41	110	80-120	73-127	
Molybdenum	25.00	24.10	96	80-120	73-127	
Nickel	25.00	24.94	100	80-120	73-127	
Selenium	25.00	22.99	92	80-120	73-127	
Silver	12.50	11.86	95	80-120	73-127	
Thallium	25.00	25.14	101	80-120	73-127	
Vanadium	25.00	23.91	96	80-120	73-127	
Zinc	25.00	26.00	104	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: Taft Charter High School			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-05-006-9699	**LCS**	**Aqueous**	**ICP 8300**	**08/22/18**	**08/28/18 17:36**	**180824LA1**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	5.000	5.827	117	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1722	**LCS**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/27/18 16:56**	**180823L04A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	25.98	104	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: Taft Charter High School			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1725	**LCS**	**Solid**	**ICP/MS 05**	**08/27/18**	**08/29/18 22:30**	**180827L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	23.84	95	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4084	**LCS**	**Solid**	**Mercury 07**	**08/27/18**	**08/27/18 15:53**	**180827L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7639	91	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	07/12/18
5261 West Imperial Highway		Work Order:	18-07-0811
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: Taft Charter High School			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4076	**LCS**	**Solid**	**Mercury 08**	**08/22/18**	**08/22/18 18:06**	**180822L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7858	94	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-07-0811

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	110	ICP 8300	1
EPA 6010B	T22.11.5. AII	110	ICP 8300	1
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1

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Glossary of Terms and Qualifiers

Work Order: 18-07-0811 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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Hoaibao Nguyen

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Wednesday, August 22, 2018 11:41 AM
To: Stephen Nowak; Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Yes. Thanks.

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, August 22, 2018 11:39 AM
To: Salgado, Desi; Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0682

Desi- for lead analysis only, correct?

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Calscience

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From: Salgado, Desi [mailto:Desi.Salgado@EFIGLOBAL.com]
Sent: Wednesday, August 22, 2018 9:56 AM
To: Hoaibao Nguyen
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Tina and Steve,

I would also like to request STLC analysis for the following samples:

B2-0.5
B4-0.5
B37-1.5

Standard TAT. Thanks.

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Hoaibao Nguyen [mailto:HoaibaoNguyen@eurofinsUS.com]
Sent: Friday, August 17, 2018 4:48 PM
To: Salgado, Desi
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

You're welcome! Have a great weekend!

Best Regards,

Hoaibao (Tina) Nguyen
Assistant Project Manager

Eurofins Calscience, LLC
P: +1 714 895 5494
Email: HoaibaoNguyen@EurofinsUS.com

From: Salgado, Desi [mailto:Desi.Salgado@EFIGLOBAL.com]
Sent: Friday, August 17, 2018 4:46 PM
To: Hoaibao Nguyen

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Hoaibao Nguyen

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Wednesday, August 22, 2018 9:56 AM
To: Hoaibao Nguyen
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Tina, please note that we need **B43-3** analyzed instead of B42-3 as indicated in my previous email. If it's too late to stop the analysis of B42-3, please simply submit B43-3 for analysis as well.

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
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From: Salgado, Desi
Sent: Friday, August 17, 2018 4:46 PM
To: 'Hoaibao Nguyen'
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

Understood. Thank you.

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
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efi global

From: Hoaibao Nguyen [mailto:HoaibaoNguyen@eurofinsUS.com]
Sent: Friday, August 17, 2018 4:46 PM
To: Salgado, Desi
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

I will put it in for 3day TAT. Please note that we may not be able to meet the TAT, the lab is currently slammed, but we will try our best.

Best Regards,

Return to Contents

Hoaibao Nguyen

From: Stephen Nowak
Sent: Friday, August 17, 2018 2:48 PM
To: Hoaibao Nguyen
Subject: FW: Taft Charter High School / ECI 18-07-0682

From: Salgado, Desi
Sent: Friday, August 17, 2018 2:48:06 PM (UTC-08:00) Pacific Time (US & Canada)
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

Steve,

Please submit the following samples for analysis for arsenic by EPA 6020 and Title 22 metals by EPA 6010B/7471A:

B9-3
B11-3
B37-3
B42-3

These samples are from reports 18-07-0811 and -0682. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
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From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Friday, August 10, 2018 11:27 AM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0682

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC

Return to Contents

Hoaibao Nguyen

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Friday, August 17, 2018 4:31 PM
To: Hoaibao Nguyen
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

EXTERNAL EMAIL*

3-day TAT please. Thank you.

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
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From: Hoaibao Nguyen [mailto:HoaibaoNguyen@eurofinsUS.com]
Sent: Friday, August 17, 2018 2:57 PM
To: Salgado, Desi
Cc: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

Hi Desi,

Standard TAT?

Best Regards,

Hoaibao (Tina) Nguyen
Assistant Project Manager

Eurofins Calscience, LLC
P: +1 714 895 5494
Email: HoaibaoNguyen@EurofinsUS.com

From: Stephen Nowak
Sent: Friday, August 17, 2018 2:48 PM
To: Hoaibao Nguyen
Subject: FW: Taft Charter High School / ECI 18-07-0682

From: Salgado, Desi
Sent: Friday, August 17, 2018 2:48:06 PM (UTC-08:00) Pacific Time (US & Canada)
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0682

Return to Contents

Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Thursday, July 26, 2018 12:55 PM
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

Steve,

I'd like to request lead STLC analysis for sample B37-0.5 and the following samples for arsenic by 6020 and Title 22 Metals by 6010B/7471A:

- B2-1.5
- B9-1.5
- B11-1.5
- B24-1.5
- B34-1.5
- B37-1.5
- B41-1.5
- B43-1.5
- B49-1.5

Please let me know if you have any questions. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
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From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, July 24, 2018 4:38 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0811

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way

Return to Contents

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Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_071118-1

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

18-07-0811

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B21-0.5					X							07/11/18	7:31	X	X	X	X							X			
2	B21-0.5 DUP					X							07/11/18	7:31	X	X	X								X			
3	B21-1.5					X							07/11/18	7:32						X								
4	B21-3					X							07/11/18	7:33						X								
5	B22-0.5					X							07/11/18	7:41	X	X	X								X			
6	B22-0.5 DUP					X							07/11/18	7:41	X	X	X								X			
7	B22-1.5					X							07/11/18	7:42						X								
8	B22-3					X							07/11/18	7:43						X								
9	B23-0.5					X							07/11/18	7:51	X	X	X								X			
10	B23-0.5 DUP					X							07/11/18	7:51	X	X	X								X			
11	B23-1.5					X							07/11/18	7:52						X								
12	B23-3					X							07/11/18	7:53						X								
13	B24-0.5					X							07/11/18	8:05	X	X	X								X			
14	B24-0.5 DUP					X							07/11/18	8:05	X	X	X								X			
15	B24-1.5					X							07/11/18	8:06						X								
16	B24-3					X							07/11/18	8:07						X								
17	B25-0.5					x							07/11/18	8:40	X	X	X								X			
18	B25-0.5 DUP					x							07/11/18	8:40	X	X	X								X			
19	B25-1.5					x							07/11/18	8:42						X								
20	B25-3					x							07/11/18	8:43						X								

Relinquished by	Date	Time	Received by	Date	Time
Desi S.	7/12/18	1180	[signature]	7/12/18	1180
[signature]	7/12/18	1630	[signature]	7/12/18	1630

Remarks

Sample condition (circle): Chilled Intact

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0811

Chain-of-Custody Record

EFI_071118-2

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

	Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
21	1	B26-0.5	21				X							07/11/18	8:50	X	X	X	X							X			
22	2	B26-0.5 DUP	22				X							07/11/18	8:50	X	X	X								X			
23	3	B26-1.5	23				X							07/11/18	8:52					X									
24	4	B26-3	24				X							07/11/18	8:54					X									
25	5	B27-0.5	25				X							07/11/18	9:25	X	X	X								X			
26	6	B27-1.5	26				X							07/11/18	9:27					X									
	7	B27-3	27				X							07/11/18	9:29					X									
	8	B28-0.5	28				X							07/11/18	9:45	X	X	X								X			
	9	B28-1.5	29				X							07/11/18	9:47					X									
	10	B28-3	30				X							07/11/18	9:49					X									
	11	B29-0.5	31				X							07/11/18	10:00	X	X	X								X			
	12	B29-1.5	32				X							07/11/18	10:02					X									
	13	B29-3	33				X							07/11/18	10:04					X									
	14	B30-0.5	34				X							07/11/18	10:16	X	X	X								X			
	15	B30-1.5	35				X							07/11/18	10:18					X									
	16	B30-3	36				X							07/11/18	10:20					X									
	17	B31-0.5	37				X							07/11/18	10:41	X	X	X								X			
	18	B31-0.5 DUP	38				X							07/11/18	10:41	X	X	X								X			
	19	B31-1.5	39				X							07/11/18	10:43					X									
	20	B31-3	40				X							07/11/18	10:45					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
DESI S.	7/12/18	1430	[illegible]	7/12/18	1430	Sample condition (circle): Chilled Intact
[illegible]	7/12/18	1630	[illegible]	7/12/18	1630	

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0871

Chain-of-Custody Record

EFI_071118-3

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B32-0.5	41				X							07/11/18	10:48	X	X	X	X							X			
2	B32-01.5	42				X							07/11/18	10:50					X									
3	B32-3	43				X							07/11/18	10:52					X									
4	B33-0.5	44				X							07/11/18	11:00	X	X	X								X			
5	B33-1.5	45				X							07/11/18	11:02					X									
6	B33-3	46				X							07/11/18	11:04					X									
7	B34-0.5	47				X							07/11/18	11:15	X	X	X								X			
8	B34-1.5	48				X							07/11/18	11:15					X									
9	B34-1.5	49				X							07/11/18	11:17					X									
10	B34-3	50				X							07/11/18	11:19					X									
11	B35-0.5	51				X							07/11/18	11:51	X	X	X								X			
12	B35-0.5 DUP	52				X							07/11/18	11:51	X	X	X								X			
13	B35-1.5	53				X							07/11/18	11:53					X									
14	B35-3	54				X							07/11/18	11:55					X									
15	B36-0.5	55				X							07/11/18	12:00	X	X	X								X			
16	B36-1.5	56				X							07/11/18	12:02					X									
17	B36-3	57				X							07/11/18	12:04					X									
18	B37-0.5	58				X							07/11/18	12:11	X	X	X								X			
19	B37-0.5 DUP	59				X							07/11/18	12:11	X	X	X								X			
20	B37-1.5	60				X							07/11/18	12:13					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
Desi S.	7/12/18	1450	[illegible]	7/12/18	1450	Sample condition (circle): Chilled Intact
[illegible]	7/12/18	1630	[illegible]	7/12/18	1630	

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0811

Chain-of-Custody Record

EFI_071118-4

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: PCBs(8082)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B37-3	61				X							07/11/18	12:15					X									
2	B38-0.5	62				X							07/11/18	12:24	X	X	X	X							X			
3	B38-1.5	63				X							07/11/18	12:26					X									
4	B38-3	64				X							07/11/18	12:28					X									
5	B39-0.5	65				X							07/11/18	12:40	X	X	X								X			
6	B39-0.5 DUP	66				X							07/11/18	12:40	X	X	X								X			
7	B39-1.5	67				X							07/11/18	12:42					X									
8	B39-3	68				X							07/11/18	12:44					X									
9	B40-0.5	69				X							07/11/18	12:50	X	X	X								X			
10	B40-1.5	70				X							07/11/18	12:52	X	X	X								X			
11	B40-3	71				X							07/11/18	12:54					X									
12	B41-0.5	72				X							07/11/18	13:00	X	X	X								X			
13	B41-1.5	73				X							07/11/18	13:02	X	X	X								X			
14	B41-3	74				X							07/11/18	13:04					X									
15	B42-0.5	75				X							07/11/18	13:46	X	X	X								X			
16	B42-1.5	76				X							07/11/18	13:48					X									
17	B42-3	77				X							07/11/18	13:50					X									
18	B43-0.5	78				X							07/11/18	14:00	X	X	X								X			
19	B43-1.5	79				X							07/11/18	14:02					X									
20	B43-3	80				X							07/11/18	14:04					X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	7/12/18	1450	[signature]	7/12/18	1450	Sample condition (circle): Chilled Intact
[signature]	7/12/18	1630	[signature]	7/12/18	1630	

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(0811)

Chain-of-Custody Record

EFI_071118-5

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B44-0.5	81				X							07/11/18	14:10	X	X	X							X			
2	B44-1.5	82				X							07/11/18	14:12				X									
3	B44-3	83				X							07/11/18	14:14				X									
4	B45-0.5	84				X							07/11/18	14:16	X	X	X							X			
5	B45-0.5 DUP	85				X							07/11/18	14:16	X	X	X							X			
6	B45-1.5	86				X							07/11/18	14;18				X									
7	B45-3	87				X							07/11/18	14:20				X									
8	B46-0.5	88				X							07/11/18	14:32	X	X	X										
9	B46-1.5	89				X							07/11/18	14:34				X									
10	B46-3	90				X							07/11/18	14:36				X									
11	B47-0.5	91				X							07/11/18	14:46	X	X	X							X			
12	B47-0.5 DUP	92				X							07/11/18	14:46	X	X	X							X			
13	B47-1.5	93				X							07/11/18	14:48				X									
14	B47-3	94				X							07/11/18	14:50				X									
15	B48-0.5	95				X							07/11/18	14:56	X	X	X							X			
16	B48-1.5	96				X							07/11/18	14;58				X									
17	B48-3	97				X							07/11/18	15:00				X									
18	B49-0.5	98				X							07/11/18	15:04	X	X	X							X			
19	B49-1.5	99				X							07/11/18	15;06				X									
20	B49-3	100				X							07/11/18	15:08				X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
Desi S.	7/12/18	1450	[illegible]	7/12/18	1450	Sample condition (circle): Chilled Intact
[illegible]	7/12/18	1630	[illegible]	7/12/18	1630	

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(0811)

Chain-of-Custody Record

EFI_071118-16

Analytical Laboratory: Eurofins Calscience	Geotracker Global ID:
Project Name: Taft Charter High School	NA
Project Address: 5461 Winnetka Avenue, Woodland Hills, CA 91364	
Project Manager: Desi Salgado	Lab Contact: Steve Nowak
Sampled by: Desi Salgado	Quote No: 965156
Phone:	310-854-6300
Email:	desi.salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs (8081)	Method: T22 Metals (6010/7471)	Method: Arsenic (6020)	Method: VOCs (8260)	Method: PCBs(8082)	Method: TPHcc(8015)	Method: Hold	Container: Acetate Liner	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Glass	Container: Tedlar Bag	Turnaround Time: Normal / Standard (7-day TAT)	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	TB-2	101			X								07/11/18	--				X						X			X			
2	EB-2	102			X								07/11/18	15:30	X	X	X	X	X	X				X	X		X			
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
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15																														
16																														
17																														
18																														
19																														
20																														

Relinquished by	Date	Time	Received by	Date	Time	Remarks
DESI S.	7/12/18	400		7/12/18	1120	Sample condition (circle): Chilled Intact
	7/12/18	1630		7/12/18	1630	

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WORK ORDER NUMBER: 18-07-0811

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: EFI GLOBAL

DATE: 07 / / 2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.0 °C (w/ CF): 2.5 °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: SOB

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: SOB

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

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 (-102)			
☐ 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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: 180709B)

Aqueous: ☐ VOA ☑ VOAh (3) ☐ VOAna₂ ☐ 100PJ ☐ 100PJna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9) ☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ~~☑ 250PB~~ ☑ 250PBn (pH≤2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB ☑ 1AGB (2) ☐ 1AGBna₂ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: TJB

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WORK ORDER NUMBER: 18-07-0811

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: EPI GLOBAL

DATE: 07/12/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.3 °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: 803

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 803
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1013

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			
Acid/base preserved samples - pH within acceptable range	☑ 07/12/18	☐	☑
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**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: TV

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WORK ORDER NUMBER: 18-07-0811

SAMPLE ANOMALY REPORT

DATE: 07 / 12 / 2018

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)
- ☐ pH outside acceptable range (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

(48) labeled as
B34-0.5 Dup.
7/11/18 @ 1115

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: TB

Reviewed by: [illegible]

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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WORK ORDER NUMBER: 18-08-0913

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 08/27/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-08-0913

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Work Order Narrative

Work Order: 18-08-0913 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/10/18. They were assigned to Work Order 18-08-0913.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-08-0913
		Project Name:	9836003557
		PO Number:	
		Date/Time Received:	08/10/18 18:30
		Number of Containers:	50
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B3A-0.5	18-08-0913-1	08/09/18 10:47	1	Solid
B3A-1.5	18-08-0913-2	08/09/18 10:50	1	Solid
B3A-3	18-08-0913-3	08/09/18 10:55	1	Solid
B3B-0.5	18-08-0913-4	08/09/18 11:02	1	Solid
B3B-1.5	18-08-0913-5	08/09/18 11:05	1	Solid
B3B-3	18-08-0913-6	08/09/18 11:10	1	Solid
B3C-0.5	18-08-0913-7	08/09/18 11:17	1	Solid
B3C-1.5	18-08-0913-8	08/09/18 11:20	2	Solid
B3C-3	18-08-0913-9	08/09/18 11:25	0	Solid
B5A-0.5	18-08-0913-10	08/09/18 10:02	1	Solid
B5A-0.5DUP	18-08-0913-11	08/09/18 10:02	1	Solid
B5A-1.5	18-08-0913-12	08/09/18 10:05	1	Solid
B5A-1.5DUP	18-08-0913-13	08/09/18 10:05	1	Solid
B5A-3	18-08-0913-14	08/09/18 10:10	1	Solid
B5A-3DUP	18-08-0913-15	08/09/18 10:10	1	Solid
B5B-0.5	18-08-0913-16	08/09/18 10:17	1	Solid
B5B-1.5	18-08-0913-17	08/09/18 10:20	1	Solid
B5B-3	18-08-0913-18	08/09/18 10:25	1	Solid
B5C-0.5	18-08-0913-19	08/09/18 10:32	1	Solid
B5C-1.5	18-08-0913-20	08/09/18 10:40	1	Solid
B5C-3	18-08-0913-21	08/09/18 10:40	1	Solid
B11A-0.5	18-08-0913-22	08/09/18 11:37	1	Solid
B11A-0.5DUP	18-08-0913-23	08/09/18 11:37	1	Solid
B11A-1.5	18-08-0913-24	08/09/18 11:40	1	Solid
B11A-1.5DUP	18-08-0913-25	08/09/18 11:40	1	Solid
B11A-3	18-08-0913-26	08/09/18 11:45	1	Solid
B11A-3DUP	18-08-0913-27	08/09/18 11:45	1	Solid
B11B-0.5	18-08-0913-28	08/09/18 11:52	1	Solid
B11B-1.5	18-08-0913-29	08/09/18 11:55	1	Solid
B11C-0.5	18-08-0913-30	08/09/18 12:07	1	Solid
B11C-1.5	18-08-0913-31	08/09/18 12:10	1	Solid
B11C-3	18-08-0913-32	08/09/18 12:15	1	Solid
B37A-0.5	18-08-0913-33	08/09/18 12:22	1	Solid
B37A-1.5	18-08-0913-34	08/09/18 12:25	1	Solid
B37A-3	18-08-0913-35	08/09/18 12:30	1	Solid
B37B-0.5	18-08-0913-36	08/09/18 12:37	1	Solid
B37B-1.5	18-08-0913-37	08/09/18 12:40	1	Solid
B37B-3	18-08-0913-38	08/09/18 12:45	1	Solid
B37C-0.5	18-08-0913-39	08/09/18 12:52	1	Solid
B37C-1.5	18-08-0913-40	08/09/18 12:55	1	Solid
B37C-3	18-08-0913-41	08/09/18 13:00	1	Solid
B49A-0.5	18-08-0913-42	08/09/18 09:02	1	Solid

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-08-0913
		Project Name:	9836003557
		PO Number:	
		Date/Time Received:	08/10/18 18:30
		Number of Containers:	50
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B49A-1.5	18-08-0913-43	08/09/18 09:05	1	Solid
B49A-3	18-08-0913-44	08/09/18 09:10	1	Solid
B49B-0.5	18-08-0913-45	08/09/18 09:18	1	Solid
B49B-1.5	18-08-0913-46	08/09/18 09:20	1	Solid
B49B-3	18-08-0913-47	08/09/18 09:25	1	Solid
B49C-0.5	18-08-0913-48	08/09/18 09:32	1	Solid
B49C-1.5	18-08-0913-49	08/09/18 09:35	1	Solid
B49C-3	18-08-0913-50	08/09/18 09:40	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B3A-0.5 (18-08-0913-1)						
Barium	177		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.767		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.72		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	32.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.81		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	52.0		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	21.8		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.71		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	41.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.75		0.746	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.96		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.9		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	104		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	14.9		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	13		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	21		5.0	ug/kg	EPA 8081A	EPA 3545
B3B-0.5 (18-08-0913-4)						
Barium	133		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.712		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.52		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	25.5		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.02		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	24.8		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	9.00		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.74		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.5		0.250	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.892		0.750	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.94		0.750	mg/kg	EPA 6010B	EPA 3050B
Vanadium	42.0		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	68.0		1.00	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.22		1.00	mg/kg	EPA 6020	EPA 3050B

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* MDL is shown

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		Page 2 of 9

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B3C-0.5 (18-08-0913-7)						
Barium	138		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.627		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.21		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	29.3		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.71		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	38.7		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	10.4		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.52		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.5		0.254	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.92		0.761	mg/kg	EPA 6010B	EPA 3050B
Thallium	2.07		0.761	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.7		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	82.7		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.28		1.00	mg/kg	EPA 6020	EPA 3050B
B5A-0.5 (18-08-0913-10)						
Barium	174		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.707		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.14		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.4		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.89		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	43.2		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	27.1		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	8.94		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.0		0.251	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.48		0.754	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.92		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	42.1		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	183		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	14.1		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	5.8		5.0	ug/kg	EPA 8081A	EPA 3545
Dieldrin	20		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		Page 3 of 9

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B5A-0.5DUP (18-08-0913-11)						
Barium	181		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.706		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.18		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.83		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	45.1		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	34.0		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.07		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.7		0.251	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.95		0.754	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.48		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.9		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	190		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	10.9		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	4.9		4.9	ug/kg	EPA 8081A	EPA 3545
Dieldrin	19		4.9	ug/kg	EPA 8081A	EPA 3545
B5B-0.5 (18-08-0913-16)						
Barium	220		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.672		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.12		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.9		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.27		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	46.9		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	37.3		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.70		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	28.7		0.250	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.53		0.750	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.78		0.750	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.5		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	121		1.00	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.98		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0813		0.0806	mg/kg	EPA 7471A	EPA 7471A Total
4,4'-DDE	9.8		5.0	ug/kg	EPA 8081A	EPA 3545
Dieldrin	17		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B5C-0.5 (18-08-0913-19)						
Barium	172		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.631		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.920		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.5		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.65		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	48.5		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	25.3		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.10		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.3		0.250	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.22		0.750	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.69		0.750	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.4		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	111		1.00	mg/kg	EPA 6010B	EPA 3050B
Arsenic	12.7		1.00	mg/kg	EPA 6020	EPA 3050B
Dieldrin	13		4.9	ug/kg	EPA 8081A	EPA 3545
B11A-0.5 (18-08-0913-22)						
Barium	149		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.798		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.56		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	37.0		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.68		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	54.0		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	10.0		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	9.90		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	53.7		0.248	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.81		0.743	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.77		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	41.5		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	138		0.990	mg/kg	EPA 6010B	EPA 3050B
Arsenic	36.2		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		Page 5 of 9

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B11A-0.5DUP (18-08-0913-23)						
Barium	129		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	1.08		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	6.47		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	38.8		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	30.8		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	50.7		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	9.05		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	21.9		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	225		0.248	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.69		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	41.6		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	159		0.990	mg/kg	EPA 6010B	EPA 3050B
Arsenic	16.2		1.00	mg/kg	EPA 6020	EPA 3050B
B11B-0.5 (18-08-0913-28)						
Barium	136		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.697		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.17		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	30.7		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.91		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	27.1		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	25.8		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.885		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	18.1		0.246	mg/kg	EPA 6010B	EPA 3050B
Thallium	2.29		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	42.1		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	109		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	20.0		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	49		25	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B11C-0.5 (18-08-0913-30)						
Barium	130		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.646		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.70		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	22.6		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.23		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	27.5		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	4.07		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.06		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	43.9		0.250	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.34		0.750	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.64		0.750	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.7		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	75.5		1.00	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.92		1.00	mg/kg	EPA 6020	EPA 3050B
B37A-0.5 (18-08-0913-33)						
Barium	176		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.811		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.27		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	25.8		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.9		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	26.8		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	4.84		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.59		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	60.3		0.251	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.879		0.754	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.98		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	97.1		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.49		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B37B-0.5 (18-08-0913-36)						
Barium	223		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.855		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.03		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	37.4		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.97		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	42.7		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	5.19		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	12.4		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	45.8		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	4.86		0.758	mg/kg	EPA 6010B	EPA 3050B
Thallium	2.19		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	50.9		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	95.2		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	12.6		5.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0948		0.0862	mg/kg	EPA 7471A	EPA 7471A Total
B37C-0.5 (18-08-0913-39)						
Barium	193		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.917		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.69		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	39.2		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	13.4		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	47.4		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	228		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.79		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	56.8		0.251	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.39		0.754	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.70		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	45.8		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	315		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	30.1		5.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.220		0.0806	mg/kg	EPA 7471A	EPA 7471A Total
Chlordane	160		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDD	12		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	310		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	17		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		

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Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B49A-0.5 (18-08-0913-42)						
Barium	174		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.625		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.816		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	32.3		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.77		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	41.2		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	14.5		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	9.83		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.1		0.251	mg/kg	EPA 6010B	EPA 3050B
Selenium	8.86		0.754	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.99		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	93.5		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	11.8		5.00	mg/kg	EPA 6020	EPA 3050B
B49B-0.5 (18-08-0913-45)						
Barium	147		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.542		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.770		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	36.1		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.16		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	40.0		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	5.72		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	12.8		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	6.17		0.746	mg/kg	EPA 6010B	EPA 3050B
Thallium	2.13		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	37.7		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	90.0		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	11.9		5.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B49C-0.5 (18-08-0913-48)						
Barium	176		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.540		0.249	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.6		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.69		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	38.8		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	4.83		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	12.8		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	24.6		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	7.57		0.746	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.46		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.9		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	88.4		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	12.1		5.00	mg/kg	EPA 6020	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3A-0.5	**18-08-0913-1-A**	**08/09/18 10:47**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:33**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	177	0.498	0.995	
Beryllium	0.767	0.249	0.995	
Cadmium	1.72	0.498	0.995	
Chromium	32.0	0.249	0.995	
Cobalt	8.81	0.249	0.995	
Copper	52.0	0.498	0.995	
Lead	21.8	0.498	0.995	
Molybdenum	5.71	0.249	0.995	
Nickel	41.0	0.249	0.995	
Selenium	3.75	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	1.96	0.746	0.995	
Vanadium	38.9	0.249	0.995	
Zinc	104	0.995	0.995	

B3B-0.5	**18-08-0913-4-A**	**08/09/18 11:02**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:38**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	133	0.500	1.00	
Beryllium	0.712	0.250	1.00	
Cadmium	1.52	0.500	1.00	
Chromium	25.5	0.250	1.00	
Cobalt	8.02	0.250	1.00	
Copper	24.8	0.500	1.00	
Lead	9.00	0.500	1.00	
Molybdenum	2.74	0.250	1.00	
Nickel	29.5	0.250	1.00	
Selenium	0.892	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	1.94	0.750	1.00	
Vanadium	42.0	0.250	1.00	
Zinc	68.0	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3C-0.5	**18-08-0913-7-A**	**08/09/18 11:17**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:40**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Barium	138	0.508	1.02	
Beryllium	0.627	0.254	1.02	
Cadmium	1.21	0.508	1.02	
Chromium	29.3	0.254	1.02	
Cobalt	7.71	0.254	1.02	
Copper	38.7	0.508	1.02	
Lead	10.4	0.508	1.02	
Molybdenum	5.52	0.254	1.02	
Nickel	31.5	0.254	1.02	
Selenium	1.92	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	2.07	0.761	1.02	
Vanadium	38.7	0.254	1.02	
Zinc	82.7	1.02	1.02	

B5A-0.5	**18-08-0913-10-A**	**08/09/18 10:02**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:41**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	174	0.503	1.01	
Beryllium	0.707	0.251	1.01	
Cadmium	1.14	0.503	1.01	
Chromium	33.4	0.251	1.01	
Cobalt	7.89	0.251	1.01	
Copper	43.2	0.503	1.01	
Lead	27.1	0.503	1.01	
Molybdenum	8.94	0.251	1.01	
Nickel	30.0	0.251	1.01	
Selenium	2.48	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	1.92	0.754	1.01	
Vanadium	42.1	0.251	1.01	
Zinc	183	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5A-0.5DUP	**18-08-0913-11-A**	**08/09/18 10:02**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:43**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	181	0.503	1.01	
Beryllium	0.706	0.251	1.01	
Cadmium	1.18	0.503	1.01	
Chromium	34.5	0.251	1.01	
Cobalt	8.83	0.251	1.01	
Copper	45.1	0.503	1.01	
Lead	34.0	0.503	1.01	
Molybdenum	7.07	0.251	1.01	
Nickel	30.7	0.251	1.01	
Selenium	2.95	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	1.48	0.754	1.01	
Vanadium	40.9	0.251	1.01	
Zinc	190	1.01	1.01	

B5B-0.5	**18-08-0913-16-A**	**08/09/18 10:17**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:44**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	220	0.500	1.00	
Beryllium	0.672	0.250	1.00	
Cadmium	1.12	0.500	1.00	
Chromium	33.9	0.250	1.00	
Cobalt	8.27	0.250	1.00	
Copper	46.9	0.500	1.00	
Lead	37.3	0.500	1.00	
Molybdenum	5.70	0.250	1.00	
Nickel	28.7	0.250	1.00	
Selenium	2.53	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	1.78	0.750	1.00	
Vanadium	38.5	0.250	1.00	
Zinc	121	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5C-0.5	**18-08-0913-19-A**	**08/09/18 10:32**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:49**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	172	0.500	1.00	
Beryllium	0.631	0.250	1.00	
Cadmium	0.920	0.500	1.00	
Chromium	33.5	0.250	1.00	
Cobalt	7.65	0.250	1.00	
Copper	48.5	0.500	1.00	
Lead	25.3	0.500	1.00	
Molybdenum	7.10	0.250	1.00	
Nickel	31.3	0.250	1.00	
Selenium	3.22	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	1.69	0.750	1.00	
Vanadium	36.4	0.250	1.00	
Zinc	111	1.00	1.00	

B11A-0.5	**18-08-0913-22-A**	**08/09/18 11:37**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:51**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	149	0.495	0.990	
Beryllium	0.798	0.248	0.990	
Cadmium	1.56	0.495	0.990	
Chromium	37.0	0.248	0.990	
Cobalt	9.68	0.248	0.990	
Copper	54.0	0.495	0.990	
Lead	10.0	0.495	0.990	
Molybdenum	9.90	0.248	0.990	
Nickel	53.7	0.248	0.990	
Selenium	2.81	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	1.77	0.743	0.990	
Vanadium	41.5	0.248	0.990	
Zinc	138	0.990	0.990	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11A-0.5DUP	**18-08-0913-23-A**	**08/09/18 11:37**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:52**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	129	0.495	0.990	
Beryllium	1.08	0.248	0.990	
Cadmium	6.47	0.495	0.990	
Chromium	38.8	0.248	0.990	
Cobalt	30.8	0.248	0.990	
Copper	50.7	0.495	0.990	
Lead	9.05	0.495	0.990	
Molybdenum	21.9	0.248	0.990	
Nickel	225	0.248	0.990	
Selenium	2.69	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	41.6	0.248	0.990	
Zinc	159	0.990	0.990	

B11B-0.5	**18-08-0913-28-A**	**08/09/18 11:52**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:54**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	136	0.493	0.985	
Beryllium	0.697	0.246	0.985	
Cadmium	1.17	0.493	0.985	
Chromium	30.7	0.246	0.985	
Cobalt	9.91	0.246	0.985	
Copper	27.1	0.493	0.985	
Lead	25.8	0.493	0.985	
Molybdenum	0.885	0.246	0.985	
Nickel	18.1	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	2.29	0.739	0.985	
Vanadium	42.1	0.246	0.985	
Zinc	109	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 6 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11C-0.5	**18-08-0913-30-A**	**08/09/18 12:07**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:55**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	130	0.500	1.00	
Beryllium	0.646	0.250	1.00	
Cadmium	1.70	0.500	1.00	
Chromium	22.6	0.250	1.00	
Cobalt	8.23	0.250	1.00	
Copper	27.5	0.500	1.00	
Lead	4.07	0.500	1.00	
Molybdenum	5.06	0.250	1.00	
Nickel	43.9	0.250	1.00	
Selenium	3.34	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	1.64	0.750	1.00	
Vanadium	31.7	0.250	1.00	
Zinc	75.5	1.00	1.00	

B37A-0.5	**18-08-0913-33-A**	**08/09/18 12:22**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:57**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	176	0.503	1.01	
Beryllium	0.811	0.251	1.01	
Cadmium	2.27	0.503	1.01	
Chromium	25.8	0.251	1.01	
Cobalt	10.9	0.251	1.01	
Copper	26.8	0.503	1.01	
Lead	4.84	0.503	1.01	
Molybdenum	4.59	0.251	1.01	
Nickel	60.3	0.251	1.01	
Selenium	0.879	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	1.98	0.754	1.01	
Vanadium	40.5	0.251	1.01	
Zinc	97.1	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37B-0.5	**18-08-0913-36-A**	**08/09/18 12:37**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:58**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	223	0.505	1.01	
Beryllium	0.855	0.253	1.01	
Cadmium	1.03	0.505	1.01	
Chromium	37.4	0.253	1.01	
Cobalt	9.97	0.253	1.01	
Copper	42.7	0.505	1.01	
Lead	5.19	0.505	1.01	
Molybdenum	12.4	0.253	1.01	
Nickel	45.8	0.253	1.01	
Selenium	4.86	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	2.19	0.758	1.01	
Vanadium	50.9	0.253	1.01	
Zinc	95.2	1.01	1.01	

B37C-0.5	**18-08-0913-39-A**	**08/09/18 12:52**	**Solid**	**ICP 8300**	**08/18/18**	**08/25/18 00:00**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	193	0.503	1.01	
Beryllium	0.917	0.251	1.01	
Cadmium	1.69	0.503	1.01	
Chromium	39.2	0.251	1.01	
Cobalt	13.4	0.251	1.01	
Copper	47.4	0.503	1.01	
Lead	228	0.503	1.01	
Molybdenum	5.79	0.251	1.01	
Nickel	56.8	0.251	1.01	
Selenium	2.39	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	1.70	0.754	1.01	
Vanadium	45.8	0.251	1.01	
Zinc	315	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49A-0.5	**18-08-0913-42-A**	**08/09/18 09:02**	**Solid**	**ICP 8300**	**08/18/18**	**08/25/18 00:02**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	174	0.503	1.01	
Beryllium	0.625	0.251	1.01	
Cadmium	0.816	0.503	1.01	
Chromium	32.3	0.251	1.01	
Cobalt	7.77	0.251	1.01	
Copper	41.2	0.503	1.01	
Lead	14.5	0.503	1.01	
Molybdenum	9.83	0.251	1.01	
Nickel	29.1	0.251	1.01	
Selenium	8.86	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	1.99	0.754	1.01	
Vanadium	40.5	0.251	1.01	
Zinc	93.5	1.01	1.01	

B49B-0.5	**18-08-0913-45-A**	**08/09/18 09:18**	**Solid**	**ICP 8300**	**08/18/18**	**08/25/18 00:03**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	147	0.498	0.995	
Beryllium	0.542	0.249	0.995	
Cadmium	0.770	0.498	0.995	
Chromium	36.1	0.249	0.995	
Cobalt	7.16	0.249	0.995	
Copper	40.0	0.498	0.995	
Lead	5.72	0.498	0.995	
Molybdenum	12.8	0.249	0.995	
Nickel	30.4	0.249	0.995	
Selenium	6.17	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	2.13	0.746	0.995	
Vanadium	37.7	0.249	0.995	
Zinc	90.0	0.995	0.995	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49C-0.5	**18-08-0913-48-A**	**08/09/18 09:32**	**Solid**	**ICP 8300**	**08/18/18**	**08/25/18 00:08**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	176	0.498	0.995	
Beryllium	0.540	0.249	0.995	
Cadmium	ND	0.498	0.995	
Chromium	34.6	0.249	0.995	
Cobalt	7.69	0.249	0.995	
Copper	38.8	0.498	0.995	
Lead	4.83	0.498	0.995	
Molybdenum	12.8	0.249	0.995	
Nickel	24.6	0.249	0.995	
Selenium	7.57	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	1.46	0.746	0.995	
Vanadium	39.9	0.249	0.995	
Zinc	88.4	0.995	0.995	

Method Blank	**097-01-002-26840**	**N/A**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:30**	**180818L08**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Barium	ND	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	ND	0.245	0.980	
Cobalt	ND	0.245	0.980	
Copper	ND	0.490	0.980	
Lead	ND	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	ND	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	ND	0.245	0.980	
Zinc	ND	0.980	0.980	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 9836003557			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3A-0.5	**18-08-0913-1-A**	**08/09/18 10:47**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 22:54**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	14.9	1.00	1.00	

B3B-0.5	**18-08-0913-4-A**	**08/09/18 11:02**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 22:57**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.22	1.00	1.00	

B3C-0.5	**18-08-0913-7-A**	**08/09/18 11:17**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:12**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.28	1.00	1.00	

B5A-0.5	**18-08-0913-10-A**	**08/09/18 10:02**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:15**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	14.1	1.00	1.00	

B5A-0.5DUP	**18-08-0913-11-A**	**08/09/18 10:02**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:19**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	10.9	1.00	1.00	

B5B-0.5	**18-08-0913-16-A**	**08/09/18 10:17**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:22**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.98	1.00	1.00	

B5C-0.5	**18-08-0913-19-A**	**08/09/18 10:32**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:26**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	12.7	1.00	1.00	

B11A-0.5	**18-08-0913-22-A**	**08/09/18 11:37**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:29**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	36.2	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 9836003557			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11A-0.5DUP	**18-08-0913-23-A**	**08/09/18 11:37**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:33**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	16.2	1.00	1.00	

B11B-0.5	**18-08-0913-28-A**	**08/09/18 11:52**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:37**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	20.0	1.00	1.00	

B11C-0.5	**18-08-0913-30-A**	**08/09/18 12:07**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:40**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.92	1.00	1.00	

B37A-0.5	**18-08-0913-33-A**	**08/09/18 12:22**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 23:44**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.49	1.00	1.00	

B37B-0.5	**18-08-0913-36-A**	**08/09/18 12:37**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/23/18 14:38**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	12.6	5.00	5.00	

B37C-0.5	**18-08-0913-39-A**	**08/09/18 12:52**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/23/18 14:42**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	30.1	5.00	5.00	

B49A-0.5	**18-08-0913-42-A**	**08/09/18 09:02**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/23/18 14:45**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	11.8	5.00	5.00	

B49B-0.5	**18-08-0913-45-A**	**08/09/18 09:18**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/23/18 14:49**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	11.9	5.00	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 9836003557			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49C-0.5	**18-08-0913-48-A**	**08/09/18 09:32**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/23/18 14:52**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	12.1	5.00	5.00	

Method Blank	**099-15-621-1717**	**N/A**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 22:32**	**180819L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: 9836003557			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3A-0.5	**18-08-0913-1-A**	**08/09/18 10:47**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:40**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B3B-0.5	**18-08-0913-4-A**	**08/09/18 11:02**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:47**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B3C-0.5	**18-08-0913-7-A**	**08/09/18 11:17**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:49**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B5A-0.5	**18-08-0913-10-A**	**08/09/18 10:02**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:56**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B5A-0.5DUP	**18-08-0913-11-A**	**08/09/18 10:02**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:58**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B5B-0.5	**18-08-0913-16-A**	**08/09/18 10:17**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:01**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0813	0.0806	1.00	

B5C-0.5	**18-08-0913-19-A**	**08/09/18 10:32**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:03**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B11A-0.5	**18-08-0913-22-A**	**08/09/18 11:37**	**Solid**	**Mercury 08**	**08/18/18**	**08/20/18 19:17**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: 9836003557			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11A-0.5DUP	**18-08-0913-23-A**	**08/09/18 11:37**	**Solid**	**Mercury 08**	**08/18/18**	**08/20/18 19:20**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B11B-0.5	**18-08-0913-28-A**	**08/09/18 11:52**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:10**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B11C-0.5	**18-08-0913-30-A**	**08/09/18 12:07**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:12**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B37A-0.5	**18-08-0913-33-A**	**08/09/18 12:22**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:14**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B37B-0.5	**18-08-0913-36-A**	**08/09/18 12:37**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:17**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0948	0.0862	1.00	

B37C-0.5	**18-08-0913-39-A**	**08/09/18 12:52**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:23**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.220	0.0806	1.00	

B49A-0.5	**18-08-0913-42-A**	**08/09/18 09:02**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:26**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B49B-0.5	**18-08-0913-45-A**	**08/09/18 09:18**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:28**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: 9836003557			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49C-0.5	**18-08-0913-48-A**	**08/09/18 09:32**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 14:30**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Method Blank	**099-16-272-4067**	**N/A**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:36**	**180818L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 1 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3A-0.5	**18-08-0913-1-A**	**08/09/18 10:47**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 11:33**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	13	5.0	1.00	
4,4'-DDT	21	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	69	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 2 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3B-0.5	**18-08-0913-4-A**	**08/09/18 11:02**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 11:47**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	117	24-168	
2,4,5,6-Tetrachloro-m-Xylene	108	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 3 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B3C-0.5	**18-08-0913-7-A**	**08/09/18 11:17**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 12:01**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 4 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5A-0.5	**18-08-0913-10-A**	**08/09/18 10:02**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 12:16**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	5.8	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	20	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	72	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 5 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5A-0.5DUP	**18-08-0913-11-A**	**08/09/18 10:02**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 12:30**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	4.9	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	19	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 6 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5B-0.5	**18-08-0913-16-A**	**08/09/18 10:17**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 12:44**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	9.8	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	17	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	24-168	
2,4,5,6-Tetrachloro-m-Xylene	100	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 7 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B5C-0.5	**18-08-0913-19-A**	**08/09/18 10:32**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 12:58**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	13	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 8 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11A-0.5	**18-08-0913-22-A**	**08/09/18 11:37**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 13:12**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 9 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11A-0.5DUP	**18-08-0913-23-A**	**08/09/18 11:37**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 13:27**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 10 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11B-0.5	**18-08-0913-28-A**	**08/09/18 11:52**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 13:41**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	110	25-145	

B11B-0.5	**18-08-0913-28-A**	**08/09/18 11:52**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 17:40**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	49	25	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	104	24-168	
2,4,5,6-Tetrachloro-m-Xylene	108	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 11 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B11C-0.5	**18-08-0913-30-A**	**08/09/18 12:07**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 13:55**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	25	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 12 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37A-0.5	**18-08-0913-33-A**	**08/09/18 12:22**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 14:10**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 13 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37B-0.5	**18-08-0913-36-A**	**08/09/18 12:37**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 14:24**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 14 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37C-0.5	**18-08-0913-39-A**	**08/09/18 12:52**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 14:38**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	160	50	1.00	
4,4'-DDD	12	5.0	1.00	
4,4'-DDT	17	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	128	24-168	
2,4,5,6-Tetrachloro-m-Xylene	105	25-145	

B37C-0.5	**18-08-0913-39-A**	**08/09/18 12:52**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 17:54**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	310	50	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 15 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49A-0.5	**18-08-0913-42-A**	**08/09/18 09:02**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 14:52**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 16 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49B-0.5	**18-08-0913-45-A**	**08/09/18 09:18**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 15:07**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	106	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 17 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B49C-0.5	**18-08-0913-48-A**	**08/09/18 09:32**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 15:21**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 18 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2998**	**N/A**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 11:04**	**180813L11**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	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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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B3A-0.5	**Sample**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:33**	**180818S08**
B3A-0.5	**Matrix Spike**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:35**	**180818S08**
B3A-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:36**	**180818S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	3.038	12	2.836	11	50-115	7	0-20	3
Barium	177.0	25.00	205.9	4X	195.4	4X	75-125	4X	0-20	Q
Beryllium	0.7667	25.00	27.03	105	26.29	102	75-125	3	0-20	
Cadmium	1.723	25.00	30.35	115	29.83	112	75-125	2	0-20	
Chromium	32.03	25.00	60.55	114	59.93	112	75-125	1	0-20	
Cobalt	8.810	25.00	36.95	113	36.39	110	75-125	2	0-20	
Copper	51.98	25.00	74.18	89	74.87	92	75-125	1	0-20	
Lead	21.77	25.00	46.57	99	45.00	93	75-125	3	0-20	
Molybdenum	5.711	25.00	25.01	77	23.69	72	75-125	5	0-20	3
Nickel	40.98	25.00	67.28	105	69.08	112	75-125	3	0-20	
Selenium	3.752	25.00	29.19	102	28.55	99	75-125	2	0-20	
Silver	ND	12.50	13.61	109	13.19	106	75-125	3	0-20	
Thallium	1.961	25.00	27.11	101	26.45	98	75-125	2	0-20	
Vanadium	38.91	25.00	65.45	106	66.99	112	75-125	2	0-20	
Zinc	104.2	25.00	125.5	4X	126.9	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B3A-0.5	**Sample**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 22:54**	**180819S02**
B3A-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 22:39**	**180819S02**
B3A-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 22:43**	**180819S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	14.89	25.00	44.16	117	44.98	120	72-132	2	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B3A-0.5	**Sample**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:40**	**180818S02**
B3A-0.5	**Matrix Spike**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:42**	**180818S02**
B3A-0.5	**Matrix Spike Duplicate**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:45**	**180818S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	1.670	1.898	114	1.862	112	71-137	2	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: 9836003557			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-0730-1	**Sample**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 11:19**	**180813S11**
18-08-0730-1	**Matrix Spike**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 18:08**	**180813S11**
18-08-0730-1	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 18:22**	**180813S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	24.76	99	27.34	109	50-135	10	0-25	
Alpha-BHC	ND	25.00	27.84	111	29.68	119	50-135	6	0-25	
Beta-BHC	ND	25.00	27.74	111	59.36	237	50-135	73	0-25	3,4
4,4'-DDD	16.16	25.00	43.45	109	48.70	130	50-135	11	0-25	
4,4'-DDE	56.60	25.00	83.32	107	84.18	110	50-135	1	0-25	
4,4'-DDT	22.98	25.00	50.88	112	49.19	105	50-135	3	0-25	
Delta-BHC	ND	25.00	26.14	105	28.67	115	50-135	9	0-25	
Dieldrin	ND	25.00	27.42	110	28.51	114	50-135	4	0-25	
Endosulfan I	ND	25.00	25.96	104	27.17	109	50-135	5	0-25	
Endosulfan II	ND	25.00	25.96	104	27.12	108	50-135	4	0-25	
Endosulfan Sulfate	ND	25.00	25.58	102	26.83	107	50-135	5	0-25	
Endrin	ND	25.00	26.34	105	27.05	108	50-135	3	0-25	
Endrin Aldehyde	ND	25.00	23.21	93	24.10	96	50-135	4	0-25	
Gamma-BHC	ND	25.00	25.34	101	26.52	106	50-135	5	0-25	
Heptachlor	ND	25.00	30.68	123	38.62	154	50-135	23	0-25	3
Heptachlor Epoxide	ND	25.00	29.50	118	30.83	123	50-135	4	0-25	
Methoxychlor	ND	25.00	24.52	98	23.84	95	50-135	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B3A-0.5	**Sample**	**Solid**	**ICP/MS 05**	**08/19/18 00:00**	**08/20/18 22:54**	**180819S02**
B3A-0.5	**PDS**	**Solid**	**ICP/MS 05**	**08/19/18 00:00**	**08/20/18 22:47**	**180819S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	14.89	25.00	43.06	113	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26840	**LCS**	**Solid**	**ICP 8300**	**08/18/18**	**08/24/18 23:32**	**180818L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	23.35	93	80-120	73-127	
Barium	25.00	27.41	110	80-120	73-127	
Beryllium	25.00	24.70	99	80-120	73-127	
Cadmium	25.00	25.01	100	80-120	73-127	
Chromium	25.00	25.48	102	80-120	73-127	
Cobalt	25.00	25.00	100	80-120	73-127	
Copper	25.00	24.95	100	80-120	73-127	
Lead	25.00	27.11	108	80-120	73-127	
Molybdenum	25.00	24.98	100	80-120	73-127	
Nickel	25.00	24.90	100	80-120	73-127	
Selenium	25.00	23.82	95	80-120	73-127	
Silver	12.50	12.22	98	80-120	73-127	
Thallium	25.00	25.49	102	80-120	73-127	
Vanadium	25.00	24.57	98	80-120	73-127	
Zinc	25.00	23.76	95	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1717	**LCS**	**Solid**	**ICP/MS 05**	**08/19/18**	**08/20/18 22:36**	**180819L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	26.60	106	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4067	**LCS**	**Solid**	**Mercury 07**	**08/18/18**	**08/18/18 13:38**	**180818L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8584	103	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: 9836003557			Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2998	**LCS**	**Solid**	**GC 44**	**08/13/18**	**08/15/18 15:51**	**180813L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	26.23	105	50-135	36-149	
Alpha-BHC	25.00	27.46	110	50-135	36-149	
Beta-BHC	25.00	26.26	105	50-135	36-149	
4,4'-DDD	25.00	24.90	100	50-135	36-149	
4,4'-DDE	25.00	26.11	104	50-135	36-149	
4,4'-DDT	25.00	24.32	97	50-135	36-149	
Delta-BHC	25.00	27.65	111	50-135	36-149	
Dieldrin	25.00	25.64	103	50-135	36-149	
Endosulfan I	25.00	26.00	104	50-135	36-149	
Endosulfan II	25.00	24.85	99	50-135	36-149	
Endosulfan Sulfate	25.00	23.52	94	50-135	36-149	
Endrin	25.00	24.42	98	50-135	36-149	
Endrin Aldehyde	25.00	23.12	92	50-135	36-149	
Gamma-BHC	25.00	27.49	110	50-135	36-149	
Heptachlor	25.00	27.82	111	50-135	36-149	
Heptachlor Epoxide	25.00	26.46	106	50-135	36-149	
Methoxychlor	25.00	23.14	93	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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Sample Analysis Summary Report

Work Order: 18-08-0913

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	110	ICP 8300	1
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8081A	EPA 3545	669	GC 44	1

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Glossary of Terms and Qualifiers

Work Order: 18-08-0913 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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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Monday, August 13, 2018 7:36 AM
To: Stephen Nowak
Subject: 5461 Winnetka (Taft)

EXTERNAL EMAIL*

Steve,

ALL of the samples that were submitted on Friday for Taft were erroneously submitted for analysis. Please only analyze all samples with "0.5" in the sample ID (including duplicate samples) for analysis and place the remaining samples on hold. Thank you.

Sent from my iPhone

* WARNING - EXTERNAL: This email originated from outside of Eurofins. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

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CHAIN-OF-CUSTODY RECORD

Date 8/9/18
Page 1 of 5

WO NO. / LAB USE ONLY: 18-08-0913

LABORATORY CLIENT: EFI Global
ADDRESS: 5261 W Imperial Hwy
CITY: Los Angeles STATE: CA ZIP: 90045
TEL: 310-854-6300 E-MAIL: desi_salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557
P.O. NO.: ø
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak / 965158
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD 7-day

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ~~☒ 8020/747X~~	Cr(VI) ☐ 7196 ☐ 218.6	Arsenic (6020)			
1	B3A-0.5	8/9/18	10:47	S	1	X												X			X		X			
2	B3A-1.5	↓	10:50	↓	↓	X												X			X		X			
3	B3A-3		10:55			X												X			X		X			
4	B3B-0.5		11:02			X												X			X		X			
5	B3B-1.5		11:05			X												X			X		X			
6	B3B-3		11:10			X												X			X		X			
7	B3C-0.5		11:17			X												X			X		X			
8	B3C-1.5		11:20			X												X			X		X			
9	B3C-3		11:25			X												X			X		X			
10	B5A-0.5	↓	10:02	↓	↓	X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] 5°C	8/10/18	16:45
[signature]	[signature]	8/10/18	1830

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Date 8/9/18

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WO NO. / LAB USE ONLY: 18-08-0913

LABORATORY CLIENT: EFI Global

ADDRESS: 5261 W Imperial Hwy

CITY: Los Angeles STATE: CA ZIP: 90045

TEL: 310-854-6300 E-MAIL: desi_salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557

P.O. NO.:

PROJECT CONTACT: Desi Salgado

LAB CONTACT OR QUOTE NO.: Nowak / 965158

GLOBAL ID:

LOG CODE:

SAMPLER(S): (PRINT) Desi Salgado

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☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD 7-day

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☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

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Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
11	B5A-0.5 DUP	8/9/18	10:02	S	1	X												X			X		X			
12	B5A-1.5		10:05	S		X												X			X		X			
13	B5A-1.5 DUP		10:05			X												X			X		X			
14	B5A-3		10:10			X												X			X		X			
15	B5A-3 DUP		10:10			X												X			X		X			
16	B5B-0.5		10:17			X												X			X		X			
17	B5B-1.5		10:20			X												X			X		X			
18	B5B-3		10:25			X												X			X		X			
19	B5C-0.5		10:32			X												X			X		X			
20	B5C-1.5		10:40			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E-C	8/10/18	16:45
[signature]	[signature] E2	8/10/18	1830

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CHAIN-OF-CUSTODY RECORD

Date 8/9/18
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WO NO. / LAB USE ONLY: 18-08-0913

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ADDRESS: 5261 W Imperial Hwy
CITY: Los Angeles STATE: CA ZIP: 90045
TEL: 310-854-6300 E-MAIL: desi-salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak / 965158
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

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EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

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LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
21	B5C-3	8/9/18	10:40	S	1	X												X			X		X			
22	B11A-0.5	↓	11:37	↓	↓	X												X			X		X			
23	B11A-0.5 DUP		11:37			X												X			X		X			
24	B11A-1.5		11:40			X												X			X		X			
25	B11A-1.5 DUP		11:40			X												X			X		X			
26	B11A-3		11:45			X												X			X		X			
27	B11A-3DUP		11:45			X												X			X		X			
28	B11B-0.5		11:52			X												X			X		X			
29	B11B-1.5		11:55			X												X			X		X			
30	B11C-0.5		12:07			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	8/10/18	16.45
	E.C	8/10/18	1830

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CHAIN-OF-CUSTODY RECORD

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WO NO. / LAB USE ONLY: 18-58-0913

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ADDRESS: 5261 W Imperial Hwy
CITY: Los Angeles STATE: CA ZIP: 90045
TEL: 310-854-6300 E-MAIL: desi_salgado@efiglobal.com

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EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
31	B11C-1.5	8/9/18	12:10	S	1	X												X			X		X			
32	B11C-3	↓	12:15	↓	↓	X												X			X		X			
33	B37A-0.5		12:22			X												X			X		X			
34	B37A-1.5		12:25			X												X			X		X			
35	B37A-3		12:30			X												X			X		X			
36	B37B-0.5		12:37			X												X			X		X			
37	B37B-1.5		12:40			X												X			X		X			
38	B37B-3		12:45			X												X			X		X			
39	B37C-0.5		12:52			X												X			X		X			
40	B37C-1.5		12:55			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E.C	8/10/18	10.45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature]	8/10/18	1830
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

Date 8/9/18
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WO NO. / LAB USE ONLY: 18-08-0913

LABORATORY CLIENT: EFI Global
ADDRESS: 5261 W Imperial Hwy
CITY: Los Angeles STATE: CA ZIP: 90045
TEL: 310-854-6300 E-MAIL: desi_salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557
P.O. NO.:
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak/965158
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD 7-day

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Arsenic (6020)			
41	B37C-3	8/9/18	13:00	S	1	X												X			X		X			
42	B49A-0.5	↓	09:02	↓	↓	X												X			X		X			
43	B49A-1.5		09:05			X												X			X		X			
44	B49A-3		09:10			X												X			X		X			
45	B49B-0.5		09:18			X												X			X		X			
46	B49B-1.5		09:20			X												X			X		X			
47	B49B-3		09:25			X												X			X		X			
48	B49C-0.5		09:32			X												X			X		X			
49	B49C-1.5		09:35			X												X			X		X			
50	B49C-3		09:40			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	E.C	8/10/18	16.40
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		8/10/18	1830
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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WORK ORDER NUMBER: 18-08-0913

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI

DATE: 08 / 10 / 2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2-9 °C (w/ CF): 2-4 °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: 804

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 804
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 778

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

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, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 778

Reviewed by: 1017

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WORK ORDER NUMBER: 18-08- 8913

SAMPLE ANOMALY REPORT

DATE: 08 / 10 / 2018

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)
- ☐ pH outside acceptable range (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

(-9) not received.
*(-8) received 2 containers

Collection time per label
(-4) 11:05
(-20) 10:35
(-38) 12:40
(-50) 09:35

** labeled as:
(-34) B37-1.5, date and time matched.
(-35) B37-3 "
*(-39) B37-0.5, 08/09/18. @ 1352

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: 778

Reviewed by: 1017

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-08-0913

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 09/18/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-08-0913

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Work Order Narrative

Work Order: 18-08-0913 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/10/18. They were assigned to Work Order 18-08-0913.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-08-0913
		Project Name:	9836003557
		PO Number:	
		Date/Time Received:	08/10/18 18:30
		Number of Containers:	50
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B37C-0.5	18-08-0913-39	08/09/18 12:52	1	Solid
B37C-1.5	18-08-0913-40	08/09/18 12:55	1	Solid
B37C-3	18-08-0913-41	08/09/18 13:00	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-0913
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/10/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B37C-0.5 (18-08-0913-39)						
Lead	4.38		0.100	mg/L	EPA 6010B	T22.11.5. AII
B37C-1.5 (18-08-0913-40)						
Lead	12.1		0.476	mg/kg	EPA 6010B	EPA 3050B
B37C-3 (18-08-0913-41)						
Lead	13.1		0.510	mg/kg	EPA 6010B	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37C-1.5	**18-08-0913-40-A**	**08/09/18 12:55**	**Solid**	**ICP 8300**	**09/17/18**	**09/17/18 19:43**	**180917L01**

Parameter	Result	RL	DF	Qualifiers
Lead	12.1	0.476	0.952	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37C-3	**18-08-0913-41-A**	**08/09/18 13:00**	**Solid**	**ICP 8300**	**09/17/18**	**09/17/18 19:44**	**180917L01**

Parameter	Result	RL	DF	Qualifiers
Lead	13.1	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-26973**	**N/A**	**Solid**	**ICP 8300**	**09/17/18**	**09/17/18 18:23**	**180917L01**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.508	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
		Units:	mg/L
Project: 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B37C-0.5	**18-08-0913-39-A**	**08/09/18 12:52**	**Solid**	**ICP 8300**	**09/11/18**	**09/15/18 01:44**	**180913LA1**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	4.38	0.100	1.00	

Method Blank	**097-05-006-9733**	**N/A**	**Aqueous**	**ICP 8300**	**09/11/18**	**09/13/18 16:53**	**180913LA1**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-09-0574-1	**Sample**	**Solid**	**ICP 8300**	**09/17/18**	**09/17/18 18:12**	**180917S01**
18-09-0574-1	**Matrix Spike**	**Solid**	**ICP 8300**	**09/17/18**	**09/17/18 18:13**	**180917S01**
18-09-0574-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**09/17/18**	**09/17/18 18:15**	**180917S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	1.185	25.00	27.62	106	28.31	108	75-125	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: 9836003557			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-09-0588-1	**Sample**	**Solid**	**ICP 8300**	**09/11/18**	**09/13/18 16:56**	**180913SA1**
18-09-0588-1	**Matrix Spike**	**Solid**	**ICP 8300**	**09/11/18**	**09/13/18 16:58**	**180913SA1**
18-09-0588-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**09/11/18**	**09/13/18 16:59**	**180913SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	ND	5.000	5.752	115	5.685	114	75-125	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26973	**LCS**	**Solid**	**ICP 8300**	**09/17/18**	**09/17/18 18:24**	**180917L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	25.00	26.85	107	80-120	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/10/18
5261 West Imperial Highway		Work Order:	18-08-0913
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: 9836003557			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-05-006-9733	**LCS**	**Aqueous**	**ICP 8300**	**09/11/18**	**09/13/18 16:55**	**180913LA1**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	5.000	5.095	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-08-0913

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	110	ICP 8300	1
EPA 6010B	T22.11.5. AII	771	ICP 8300	1

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Glossary of Terms and Qualifiers

Work Order: 18-08-0913 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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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Monday, September 10, 2018 1:46 PM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

Steve,

Please run the following samples for lead STLC analysis:

B37C-0.5
B43-0.5
B65-0.5

Additionally, please run the following samples for lead by 6010B:

B37C-1.5
B37C-3

Please let me know if you have any questions. Thanks!

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, September 05, 2018 4:24 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0811

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC

Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Monday, August 13, 2018 7:36 AM
To: Stephen Nowak
Subject: 5461 Winnetka (Taft)

EXTERNAL EMAIL*

Steve,

ALL of the samples that were submitted on Friday for Taft were erroneously submitted for analysis. Please only analyze all samples with "0.5" in the sample ID (including duplicate samples) for analysis and place the remaining samples on hold. Thank you.

Sent from my iPhone

* WARNING - EXTERNAL: This email originated from outside of Eurofins. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

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CHAIN-OF-CUSTODY RECORD

Date 8/9/18
Page 1 of 5

WO NO. / LAB USE ONLY: 18-08-0913

LABORATORY CLIENT: EFI Global
ADDRESS: 5261 W Imperial Hwy
CITY: Los Angeles STATE: CA ZIP: 90045
TEL: 310-854-6300 E-MAIL: desi_salgado@efiglobal.com

CLIENT PROJECT NAME / NO.: 9836003557
P.O. NO.: ø
PROJECT CONTACT: Desi Salgado
LAB CONTACT OR QUOTE NO: Nowak / 965158
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Desi Salgado

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD 7-day

EDD
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ~~☒ 8020/747X~~	Cr(VI) ☐ 7196 ☐ 218.6	Arsenic (6020)			
1	B3A-0.5	8/9/18	10:47	S	1	X												X			X		X			
2	B3A-1.5	↓	10:50	↓	↓	X												X			X		X			
3	B3A-3		10:55			X												X			X		X			
4	B3B-0.5		11:02			X												X			X		X			
5	B3B-1.5		11:05			X												X			X		X			
6	B3B-3		11:10			X												X			X		X			
7	B3C-0.5		11:17			X												X			X		X			
8	B3C-1.5		11:20			X												X			X		X			
9	B3C-3		11:25			X												X			X		X			
10	B5A-0.5	↓	10:02	↓	↓	X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	5°C	8/10/18	16:45
		8/10/18	1830

2016-04-01-Revision

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11	B5A-0.5 DUP	8/9/18	10:02	S	1	X												X			X		X			
12	B5A-1.5		10:05	S		X												X			X		X			
13	B5A-1.5 DUP		10:05			X												X			X		X			
14	B5A-3		10:10			X												X			X		X			
15	B5A-3 DUP		10:10			X												X			X		X			
16	B5B-0.5		10:17			X												X			X		X			
17	B5B-1.5		10:20			X												X			X		X			
18	B5B-3		10:25			X												X			X		X			
19	B5C-0.5		10:32			X												X			X		X			
20	B5C-1.5		10:40			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E-C	8/10/18	16:45
[signature]	[signature] E2	8/10/18	1830

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21	B5C-3	8/9/18	10:40	S	1	X												X			X		X			
22	B11A-0.5	↓	11:37	↓	↓	X												X			X		X			
23	B11A-0.5 DUP		11:37			X												X			X		X			
24	B11A-1.5		11:40			X												X			X		X			
25	B11A-1.5 DUP		11:40			X												X			X		X			
26	B11A-3		11:45			X												X			X		X			
27	B11A-3DUP		11:45			X												X			X		X			
28	B11B-0.5		11:52			X												X			X		X			
29	B11B-1.5		11:55			X												X			X		X			
30	B11C-0.5		12:07			X												X			X		X			

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[signature]	[signature] E.C	8/10/18	16.45
[signature]	[signature] E.C	8/10/18	1830

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31	B11C-1.5	8/9/18	12:10	S	1	X												X			X		X			
32	B11C-3	↓	12:15	↓	↓	X												X			X		X			
33	B37A-0.5		12:22			X												X			X		X			
34	B37A-1.5		12:25			X												X			X		X			
35	B37A-3		12:30			X												X			X		X			
36	B37B-0.5		12:37			X												X			X		X			
37	B37B-1.5		12:40			X												X			X		X			
38	B37B-3		12:45			X												X			X		X			
39	B37C-0.5		12:52			X												X			X		X			
40	B37C-1.5		12:55			X												X			X		X			

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[signature]	[signature] E.C	8/10/18	10:45
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature]	8/10/18	1830
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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P.O. NO.:

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LAB CONTACT OR QUOTE NO: Nowak/965158

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REQUESTED ANALYSES

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41	B37C-3	8/9/18	13:00	S	1	X												X			X		X			
42	B49A-0.5	↓	09:02	↓	↓	X												X			X		X			
43	B49A-1.5		09:05			X												X			X		X			
44	B49A-3		09:10			X												X			X		X			
45	B49B-0.5		09:18			X												X			X		X			
46	B49B-1.5		09:20			X												X			X		X			
47	B49B-3		09:25			X												X			X		X			
48	B49C-0.5		09:32			X												X			X		X			
49	B49C-1.5		09:35			X												X			X		X			
50	B49C-3		09:40			X												X			X		X			

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] E.C	8/10/18	16.40
[signature]	[signature]	8/10/18	1830

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WORK ORDER NUMBER: 18-08-0913

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI

DATE: 08 / 10 / 2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2-9 °C (w/ CF): 2-4 °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: 804

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 804
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 778

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB
☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____
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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4,
s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 778

Reviewed by: 1017

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WORK ORDER NUMBER: 18-08- 8913

SAMPLE ANOMALY REPORT

DATE: 08 / 10 / 2018

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)
- ☐ pH outside acceptable range (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

(-9) not received.
*(-8) received 2 containers

Collection time per label
(-4) 11:05
(-20) 10:35
(-38) 12:40
(-50) 09:35

** labeled as:
(-34) B37-1.5, date and time matched.
(-35) B37-3 "
*(-39) B37-0.5, 08/09/18. @ 1352

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: 778

Reviewed by: 1017

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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WORK ORDER NUMBER: 18-08-1130

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 08/31/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-08-1130

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Work Order Narrative

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/14/18. They were assigned to Work Order 18-08-1130.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-08-1130
		Project Name:	9836003557
		PO Number:	
		Date/Time Received:	08/14/18 18:30
		Number of Containers:	83
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B41A-0.5	18-08-1130-1	08/13/18 07:42	1	Solid
B41A-0.5 DUP	18-08-1130-2	08/13/18 07:42	1	Solid
B41A-1.5	18-08-1130-3	08/13/18 07:45	1	Solid
B41A-1.5 DUP	18-08-1130-4	08/13/18 07:45	1	Solid
B41A-3	18-08-1130-5	08/13/18 07:50	1	Solid
B41A-3 DUP	18-08-1130-6	08/13/18 07:50	1	Solid
B41B-0.5	18-08-1130-7	08/13/18 07:57	1	Solid
B41B-1.5	18-08-1130-8	08/13/18 08:00	1	Solid
B41B-3	18-08-1130-9	08/13/18 08:05	1	Solid
B41C-0.5	18-08-1130-10	08/13/18 08:12	1	Solid
B41C-1.5	18-08-1130-11	08/13/18 08:15	1	Solid
B41C-3	18-08-1130-12	08/13/18 08:20	1	Solid
B43A-0.5	18-08-1130-13	08/13/18 08:52	1	Solid
B43A-1.5	18-08-1130-14	08/13/18 08:55	1	Solid
B43A-3	18-08-1130-15	08/13/18 09:00	1	Solid
B43B-0.5	18-08-1130-16	08/13/18 08:37	1	Solid
B43B-1.5	18-08-1130-17	08/13/18 08:40	1	Solid
B43B-3	18-08-1130-18	08/13/18 08:45	1	Solid
B43C-0.5	18-08-1130-19	08/13/18 09:07	1	Solid
B43-1.5	18-08-1130-20	08/13/18 09:10	1	Solid
B43C-3	18-08-1130-21	08/13/18 09:15	1	Solid
B50-0.5	18-08-1130-22	08/13/18 09:17	1	Solid
B50-1.5	18-08-1130-23	08/13/18 09:20	1	Solid
B50-3	18-08-1130-24	08/13/18 09:25	1	Solid
B51-0.5	18-08-1130-25	08/13/18 09:32	1	Solid
B51-0.5 DUP	18-08-1130-26	08/13/18 09:32	1	Solid
B51-1.5	18-08-1130-27	08/13/18 09:35	1	Solid
B51-1.5 DUP	18-08-1130-28	08/13/18 09:35	1	Solid
B51-3	18-08-1130-29	08/13/18 09:40	1	Solid
B51-3 DUP	18-08-1130-30	08/13/18 09:40	1	Solid
B52-0.5	18-08-1130-31	08/13/18 09:47	1	Solid
B52-1.5	18-08-1130-32	08/13/18 09:50	1	Solid
B52-3	18-08-1130-33	08/13/18 09:55	1	Solid
B53-0.5	18-08-1130-34	08/13/18 09:57	1	Solid
B53-1.5	18-08-1130-35	08/13/18 10:00	1	Solid
B54-0.5	18-08-1130-36	08/13/18 10:07	1	Solid
B54-1.5	18-08-1130-37	08/13/18 10:10	1	Solid
B54-3	18-08-1130-38	08/13/18 10:15	1	Solid
B55-0.5	18-08-1130-39	08/13/18 10:22	1	Solid
B55-1.5	18-08-1130-40	08/13/18 10:25	1	Solid
B55-3	18-08-1130-41	08/13/18 10:30	1	Solid
B56-0.5	18-08-1130-42	08/13/18 10:37	1	Solid

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-08-1130
		Project Name:	9836003557
		PO Number:	
		Date/Time Received:	08/14/18 18:30
		Number of Containers:	83
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B56-1.5	18-08-1130-43	08/13/18 10:40	1	Solid
B56-3	18-08-1130-44	08/13/18 10:45	1	Solid
B57-0.5	18-08-1130-45	08/13/18 10:52	1	Solid
B57-1.5	18-08-1130-46	08/13/18 10:55	1	Solid
B57-3	18-08-1130-47	08/13/18 11:00	1	Solid
B58-0.5	18-08-1130-48	08/13/18 12:22	1	Solid
B58-1.5	18-08-1130-49	08/13/18 12:25	1	Solid
B58-3	18-08-1130-50	08/13/18 12:30	1	Solid
B59-0.5	18-08-1130-51	08/13/18 13:02	1	Solid
B59-1.5	18-08-1130-52	08/13/18 13:05	1	Solid
B59-3	18-08-1130-53	08/13/18 13:10	1	Solid
B60-0.5	18-08-1130-54	08/13/18 13:17	1	Solid
B60-0.5 DUP	18-08-1130-55	08/13/18 13:17	1	Solid
B60-1.5	18-08-1130-56	08/13/18 13:20	1	Solid
B60-1.5 DUP	18-08-1130-57	08/13/18 13:20	1	Solid
B60-3	18-08-1130-58	08/13/18 13:25	1	Solid
B60-3 DUP	18-08-1130-59	08/13/18 13:25	1	Solid
B61-0.5	18-08-1130-60	08/13/18 13:32	1	Solid
B61-1.5	18-08-1130-61	08/13/18 13:35	1	Solid
B61-3	18-08-1130-62	08/13/18 13:40	1	Solid
B62-0.5	18-08-1130-63	08/13/18 13:47	1	Solid
B63-0.5	18-08-1130-64	08/13/18 14:02	1	Solid
B63-1.5	18-08-1130-65	08/13/18 14:05	1	Solid
B64-0.5	18-08-1130-66	08/13/18 14:17	1	Solid
B64-1.5	18-08-1130-67	08/13/18 14:20	1	Solid
B64-3	18-08-1130-68	08/13/18 14:25	1	Solid
B65-0.5	18-08-1130-69	08/13/18 14:32	1	Solid
B65-1.5	18-08-1130-70	08/13/18 14:35	1	Solid
B65-3	18-08-1130-71	08/13/18 14:40	1	Solid
B66-0.5	18-08-1130-72	08/13/18 14:47	1	Solid
B66-1.5	18-08-1130-73	08/13/18 14:50	1	Solid
B66-3	18-08-1130-74	08/13/18 14:55	1	Solid
B67-0.5	18-08-1130-75	08/13/18 15:02	1	Solid
B67-1.5	18-08-1130-76	08/13/18 15:05	1	Solid
B67-3	18-08-1130-77	08/13/18 15:10	1	Solid
EB-3	18-08-1130-78	08/13/18 16:00	3	Aqueous
TB-1	18-08-1130-79	08/13/18 00:00	3	Aqueous

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B41A-0.5 (18-08-1130-1)						
Barium	126		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.631		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.37		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	30.4		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	12.7		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	40.3		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	10.9		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	11.3		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	34.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Selenium	8.35		0.754	mg/kg	EPA 6010B	EPA 3050B
Thallium	2.10		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	41.0		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	96.9		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.92		1.00	mg/kg	EPA 6020	EPA 3050B
B41A-0.5 DUP (18-08-1130-2)						
Barium	132		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.643		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.42		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	30.9		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	11.8		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	43.5		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	11.0		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	12.1		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	37.6		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	6.33		0.758	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.93		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.0		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	99.6		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.24		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDT	5.7		4.9	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B41B-0.5 (18-08-1130-7)						
Barium	147		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.590		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.29		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	32.2		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.2		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	39.2		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	14.1		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.56		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.7		0.248	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.89		0.743	mg/kg	EPA 6010B	EPA 3050B
Thallium	2.23		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	42.2		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	116		0.990	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.89		5.00	mg/kg	EPA 6020	EPA 3050B
B41C-0.5 (18-08-1130-10)						
Barium	108		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.479		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.12		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.08		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	24.4		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	6.29		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.30		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	32.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	3.87		0.758	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.58		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.0		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	73.0		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.46		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B43A-0.5 (18-08-1130-13)						
Barium	168		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.618		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.53		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.1		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.69		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	37.4		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	40.0		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.46		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.7		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.25		0.746	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.32		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	133		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	21.4		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.168		0.0794	mg/kg	EPA 7471A	EPA 7471A Total
Chlordane	110		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	14		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	10		5.0	ug/kg	EPA 8081A	EPA 3545
B43B-0.5 (18-08-1130-16)						
Barium	169		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.618		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.52		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.2		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.71		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	37.3		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	40.3		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.51		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.9		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.40		0.746	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.37		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.1		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	134		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	11.3		5.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0821		0.0794	mg/kg	EPA 7471A	EPA 7471A Total
4,4'-DDE	16		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	31		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B43C-0.5 (18-08-1130-19)						
Barium	154		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.605		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.10		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	45.7		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.07		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	23.3		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	36.5		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.23		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	22.6		0.250	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.37		0.750	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.2		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	114		1.00	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.20		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	50		49	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	11		4.9	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	14		4.9	ug/kg	EPA 8081A	EPA 3545
Dieldrin	12		4.9	ug/kg	EPA 8081A	EPA 3545
B50-0.5 (18-08-1130-22)						
Barium	171		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.721		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.82		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	30.6		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.24		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	30.5		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	12.9		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.78		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	33.0		0.246	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.49		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	45.4		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	87.0		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.06		1.00	mg/kg	EPA 6020	EPA 3050B
Mercury	0.0961		0.0820	mg/kg	EPA 7471A	EPA 7471A Total
Chlordane	160		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	19		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	13		5.0	ug/kg	EPA 8081A	EPA 3545

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		Page 5 of 14

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B51-0.5 (18-08-1130-25)						
Barium	162		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.661		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.48		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	27.7		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.70		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	25.1		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	7.76		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.22		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.3		0.248	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.21		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.2		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	64.3		0.990	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.30		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	7.0		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	5.6		5.0	ug/kg	EPA 8081A	EPA 3545
B51-0.5 DUP (18-08-1130-26)						
Barium	163		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.718		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.52		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	31.3		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.58		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	27.8		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	6.82		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.90		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.52		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	44.7		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	68.6		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.34		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	11		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	6.9		5.0	ug/kg	EPA 8081A	EPA 3545

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Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B52-0.5 (18-08-1130-31)						
Barium	173		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.627		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.81		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.1		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.11		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	30.9		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	18.4		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.59		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.3		0.246	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.36		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.3		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	93.3		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	17.0		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	130		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	33		5.0	ug/kg	EPA 8081A	EPA 3545
B53-0.5 (18-08-1130-34)						
Barium	187		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.739		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.78		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	30.9		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.56		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	42.5		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	11.9		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.15		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.2		0.251	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.14		0.754	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.37		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	45.6		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	125		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.64		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	81		50	ug/kg	EPA 8081A	EPA 3545

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Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B54-0.5 (18-08-1130-36)						
Barium	178		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.738		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.02		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.52		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	38.5		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	10.5		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.05		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	40.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.38		0.758	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.65		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	43.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	153		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.23		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	19		4.9	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	5.3		4.9	ug/kg	EPA 8081A	EPA 3545
B55-0.5 (18-08-1130-39)						
Barium	52.1		0.503	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.583		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	10.9		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	2.02		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	8.35		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	2.06		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.29		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	10.4		0.251	mg/kg	EPA 6010B	EPA 3050B
Vanadium	13.2		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	29.5		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	1.64		1.00	mg/kg	EPA 6020	EPA 3050B

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Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B56-0.5 (18-08-1130-42)						
Barium	174		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.664		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.60		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	25.9		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.67		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	27.6		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	16.5		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.59		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	27.8		0.254	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.33		0.761	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.42		0.761	mg/kg	EPA 6010B	EPA 3050B
Vanadium	37.3		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	114		1.02	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.42		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	8.1		5.0	ug/kg	EPA 8081A	EPA 3545
B57-0.5 (18-08-1130-45)						
Barium	159		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.605		0.248	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.22		0.495	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.3		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.72		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	32.3		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	5.48		0.495	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.97		0.248	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.9		0.248	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.93		0.743	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.26		0.743	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.8		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	69.0		0.990	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.43		1.00	mg/kg	EPA 6020	EPA 3050B

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Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B58-0.5 (18-08-1130-48)						
Barium	153		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.598		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.21		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	24.9		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.71		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	27.6		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	28.2		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.54		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	23.3		0.251	mg/kg	EPA 6010B	EPA 3050B
Thallium	2.31		0.754	mg/kg	EPA 6010B	EPA 3050B
Vanadium	40.2		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	74.4		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.61		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	240		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	29		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	8.8		5.0	ug/kg	EPA 8081A	EPA 3545
B59-0.5 (18-08-1130-51)						
Barium	164		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.716		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.60		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.3		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.67		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	32.8		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	4.61		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.11		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	36.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.76		0.758	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.36		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	42.8		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	75.8		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.79		1.00	mg/kg	EPA 6020	EPA 3050B

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Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B60-0.5 (18-08-1130-54)						
Barium	149		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.662		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.71		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.35		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	32.9		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	6.42		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	6.29		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	39.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.39		0.746	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.33		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.8		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	76.1		0.995	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.80		1.00	mg/kg	EPA 6020	EPA 3050B
B60-0.5 DUP (18-08-1130-55)						
Barium	176		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.755		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.22		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	37.2		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.79		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	39.2		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	7.85		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.33		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	53.8		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	2.65		0.758	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.38		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	46.0		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	90.3		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	10.7		1.00	mg/kg	EPA 6020	EPA 3050B

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Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B61-0.5 (18-08-1130-60)						
Barium	190		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.824		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.07		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	35.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.83		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	38.2		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	87.6		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.87		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.1		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.08		0.758	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.50		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	50.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	151		1.01	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.24		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	710		49	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	560		250	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	590		250	ug/kg	EPA 8081A	EPA 3545
Dieldrin	9.3		4.9	ug/kg	EPA 8081A	EPA 3545
B62-0.5 (18-08-1130-63)						
Barium	147		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.607		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.28		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	24.8		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.41		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	28.4		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	46.0		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.16		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	27.6		0.250	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.72		0.750	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.49		0.750	mg/kg	EPA 6010B	EPA 3050B
Vanadium	39.0		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	201		1.00	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.32		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDD	5.1		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	97		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	35		5.0	ug/kg	EPA 8081A	EPA 3545
Dieldrin	6.6		5.0	ug/kg	EPA 8081A	EPA 3545

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Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B63-0.5 (18-08-1130-64)						
Barium	201		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.754		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.67		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.2		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.90		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	35.4		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	57.4		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.01		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.3		0.250	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.826		0.750	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.57		0.750	mg/kg	EPA 6010B	EPA 3050B
Vanadium	46.2		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	172		1.00	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.91		5.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	69		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	460		250	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	410		250	ug/kg	EPA 8081A	EPA 3545
B64-0.5 (18-08-1130-66)						
Barium	179		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.745		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.64		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	25.8		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.56		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	22.4		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	5.54		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.55		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	28.5		0.246	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.885		0.739	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.87		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	46.1		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	58.8		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.42		5.00	mg/kg	EPA 6020	EPA 3050B

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Attn:	Desi Salgado		

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Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B65-0.5 (18-08-1130-69)						
Barium	195		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.739		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.88		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.9		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.37		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	34.4		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	20.7		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.84		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.8		0.246	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.54		0.739	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.40		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	46.6		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	95.6		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.34		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDD	12		4.9	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	79		49	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	14		4.9	ug/kg	EPA 8081A	EPA 3545
B66-0.5 (18-08-1130-72)						
Barium	185		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.701		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.45		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	28.0		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.95		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	32.2		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	6.96		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.37		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.5		0.246	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.39		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.9		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	61.4		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.83		5.00	mg/kg	EPA 6020	EPA 3050B

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* MDL is shown

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B67-0.5 (18-08-1130-75)						
Barium	190	B	0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.747		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.61		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	30.1		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.36		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	28.2		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	7.35		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.32		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	34.4		0.246	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.49		0.739	mg/kg	EPA 6010B	EPA 3050B
Vanadium	44.0		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	67.6		0.985	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.95		1.00	mg/kg	EPA 6020	EPA 3050B
EB-3 (18-08-1130-78)						
Barium	0.0185		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Arsenic	0.00509		0.00100	mg/L	EPA 6020	EPA 3020A Total

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Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 1 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41A-0.5	**18-08-1130-1-A**	**08/13/18 07:42**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 11:36**	**180820L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	126	0.503	1.01	
Beryllium	0.631	0.251	1.01	
Cadmium	1.37	0.503	1.01	
Chromium	30.4	0.251	1.01	
Cobalt	12.7	0.251	1.01	
Copper	40.3	0.503	1.01	
Lead	10.9	0.503	1.01	
Molybdenum	11.3	0.251	1.01	
Nickel	34.5	0.251	1.01	
Selenium	8.35	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	2.10	0.754	1.01	
Vanadium	41.0	0.251	1.01	
Zinc	96.9	1.01	1.01	

B41A-0.5 DUP	**18-08-1130-2-A**	**08/13/18 07:42**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 11:37**	**180820L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	132	0.505	1.01	
Beryllium	0.643	0.253	1.01	
Cadmium	1.42	0.505	1.01	
Chromium	30.9	0.253	1.01	
Cobalt	11.8	0.253	1.01	
Copper	43.5	0.505	1.01	
Lead	11.0	0.505	1.01	
Molybdenum	12.1	0.253	1.01	
Nickel	37.6	0.253	1.01	
Selenium	6.33	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	1.93	0.758	1.01	
Vanadium	40.0	0.253	1.01	
Zinc	99.6	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 2 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41B-0.5	**18-08-1130-7-A**	**08/13/18 07:57**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 11:39**	**180820L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	147	0.495	0.990	
Beryllium	0.590	0.248	0.990	
Cadmium	1.29	0.495	0.990	
Chromium	32.2	0.248	0.990	
Cobalt	10.2	0.248	0.990	
Copper	39.2	0.495	0.990	
Lead	14.1	0.495	0.990	
Molybdenum	5.56	0.248	0.990	
Nickel	31.7	0.248	0.990	
Selenium	3.89	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	2.23	0.743	0.990	
Vanadium	42.2	0.248	0.990	
Zinc	116	0.990	0.990	

B41C-0.5	**18-08-1130-10-A**	**08/13/18 08:12**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 11:40**	**180820L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	108	0.505	1.01	
Beryllium	0.479	0.253	1.01	
Cadmium	1.12	0.505	1.01	
Chromium	18.5	0.253	1.01	
Cobalt	9.08	0.253	1.01	
Copper	24.4	0.505	1.01	
Lead	6.29	0.505	1.01	
Molybdenum	5.30	0.253	1.01	
Nickel	32.7	0.253	1.01	
Selenium	3.87	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	1.58	0.758	1.01	
Vanadium	32.0	0.253	1.01	
Zinc	73.0	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 3 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B43A-0.5	**18-08-1130-13-A**	**08/13/18 08:52**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 11:42**	**180820L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	168	0.498	0.995	
Beryllium	0.618	0.249	0.995	
Cadmium	1.53	0.498	0.995	
Chromium	28.1	0.249	0.995	
Cobalt	7.69	0.249	0.995	
Copper	37.4	0.498	0.995	
Lead	40.0	0.498	0.995	
Molybdenum	4.46	0.249	0.995	
Nickel	29.7	0.249	0.995	
Selenium	1.25	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	1.32	0.746	0.995	
Vanadium	40.0	0.249	0.995	
Zinc	133	0.995	0.995	

B43B-0.5	**18-08-1130-16-A**	**08/13/18 08:37**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 11:43**	**180820L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	169	0.498	0.995	
Beryllium	0.618	0.249	0.995	
Cadmium	1.52	0.498	0.995	
Chromium	28.2	0.249	0.995	
Cobalt	7.71	0.249	0.995	
Copper	37.3	0.498	0.995	
Lead	40.3	0.498	0.995	
Molybdenum	4.51	0.249	0.995	
Nickel	29.9	0.249	0.995	
Selenium	1.40	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	1.37	0.746	0.995	
Vanadium	40.1	0.249	0.995	
Zinc	134	0.995	0.995	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 4 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B43C-0.5	**18-08-1130-19-A**	**08/13/18 09:07**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:45**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	154	0.500	1.00	
Beryllium	0.605	0.250	1.00	
Cadmium	1.10	0.500	1.00	
Chromium	45.7	0.250	1.00	
Cobalt	7.07	0.250	1.00	
Copper	23.3	0.500	1.00	
Lead	36.5	0.500	1.00	
Molybdenum	2.23	0.250	1.00	
Nickel	22.6	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	1.37	0.750	1.00	
Vanadium	38.2	0.250	1.00	
Zinc	114	1.00	1.00	

B50-0.5	**18-08-1130-22-A**	**08/13/18 09:17**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:31**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	171	0.493	0.985	
Beryllium	0.721	0.246	0.985	
Cadmium	1.82	0.493	0.985	
Chromium	30.6	0.246	0.985	
Cobalt	9.24	0.246	0.985	
Copper	30.5	0.493	0.985	
Lead	12.9	0.493	0.985	
Molybdenum	3.78	0.246	0.985	
Nickel	33.0	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	1.49	0.739	0.985	
Vanadium	45.4	0.246	0.985	
Zinc	87.0	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 5 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B51-0.5	**18-08-1130-25-A**	**08/13/18 09:32**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:49**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	162	0.495	0.990	
Beryllium	0.661	0.248	0.990	
Cadmium	1.48	0.495	0.990	
Chromium	27.7	0.248	0.990	
Cobalt	8.70	0.248	0.990	
Copper	25.1	0.495	0.990	
Lead	7.76	0.495	0.990	
Molybdenum	3.22	0.248	0.990	
Nickel	30.3	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	1.21	0.743	0.990	
Vanadium	40.2	0.248	0.990	
Zinc	64.3	0.990	0.990	

B51-0.5 DUP	**18-08-1130-26-A**	**08/13/18 09:32**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:51**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	163	0.498	0.995	
Beryllium	0.718	0.249	0.995	
Cadmium	1.52	0.498	0.995	
Chromium	31.3	0.249	0.995	
Cobalt	7.58	0.249	0.995	
Copper	27.8	0.498	0.995	
Lead	6.82	0.498	0.995	
Molybdenum	3.90	0.249	0.995	
Nickel	31.4	0.249	0.995	
Selenium	ND	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	1.52	0.746	0.995	
Vanadium	44.7	0.249	0.995	
Zinc	68.6	0.995	0.995	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 6 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52-0.5	**18-08-1130-31-A**	**08/13/18 09:47**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:53**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	173	0.493	0.985	
Beryllium	0.627	0.246	0.985	
Cadmium	1.81	0.493	0.985	
Chromium	28.1	0.246	0.985	
Cobalt	9.11	0.246	0.985	
Copper	30.9	0.493	0.985	
Lead	18.4	0.493	0.985	
Molybdenum	1.59	0.246	0.985	
Nickel	29.3	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	1.36	0.739	0.985	
Vanadium	40.3	0.246	0.985	
Zinc	93.3	0.985	0.985	

B53-0.5	**18-08-1130-34-A**	**08/13/18 09:57**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:54**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	187	0.503	1.01	
Beryllium	0.739	0.251	1.01	
Cadmium	1.78	0.503	1.01	
Chromium	30.9	0.251	1.01	
Cobalt	8.56	0.251	1.01	
Copper	42.5	0.503	1.01	
Lead	11.9	0.503	1.01	
Molybdenum	4.15	0.251	1.01	
Nickel	35.2	0.251	1.01	
Selenium	1.14	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	1.37	0.754	1.01	
Vanadium	45.6	0.251	1.01	
Zinc	125	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 7 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B54-0.5	**18-08-1130-36-A**	**08/13/18 10:07**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:56**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	178	0.505	1.01	
Beryllium	0.738	0.253	1.01	
Cadmium	2.02	0.505	1.01	
Chromium	34.7	0.253	1.01	
Cobalt	8.52	0.253	1.01	
Copper	38.5	0.505	1.01	
Lead	10.5	0.505	1.01	
Molybdenum	6.05	0.253	1.01	
Nickel	40.7	0.253	1.01	
Selenium	1.38	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	1.65	0.758	1.01	
Vanadium	43.7	0.253	1.01	
Zinc	153	1.01	1.01	

B55-0.5	**18-08-1130-39-A**	**08/13/18 10:22**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:57**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	52.1	0.503	1.01	
Beryllium	ND	0.251	1.01	
Cadmium	0.583	0.503	1.01	
Chromium	10.9	0.251	1.01	
Cobalt	2.02	0.251	1.01	
Copper	8.35	0.503	1.01	
Lead	2.06	0.503	1.01	
Molybdenum	1.29	0.251	1.01	
Nickel	10.4	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	13.2	0.251	1.01	
Zinc	29.5	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 8 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B56-0.5	**18-08-1130-42-A**	**08/13/18 10:37**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:59**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Barium	174	0.508	1.02	
Beryllium	0.664	0.254	1.02	
Cadmium	1.60	0.508	1.02	
Chromium	25.9	0.254	1.02	
Cobalt	6.67	0.254	1.02	
Copper	27.6	0.508	1.02	
Lead	16.5	0.508	1.02	
Molybdenum	2.59	0.254	1.02	
Nickel	27.8	0.254	1.02	
Selenium	1.33	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	1.42	0.761	1.02	
Vanadium	37.3	0.254	1.02	
Zinc	114	1.02	1.02	

B57-0.5	**18-08-1130-45-A**	**08/13/18 10:52**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:00**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	159	0.495	0.990	
Beryllium	0.605	0.248	0.990	
Cadmium	1.22	0.495	0.990	
Chromium	28.3	0.248	0.990	
Cobalt	7.72	0.248	0.990	
Copper	32.3	0.495	0.990	
Lead	5.48	0.495	0.990	
Molybdenum	7.97	0.248	0.990	
Nickel	31.9	0.248	0.990	
Selenium	1.93	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	1.26	0.743	0.990	
Vanadium	38.8	0.248	0.990	
Zinc	69.0	0.990	0.990	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 9 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B58-0.5	**18-08-1130-48-A**	**08/13/18 12:22**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:02**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Barium	153	0.503	1.01	
Beryllium	0.598	0.251	1.01	
Cadmium	1.21	0.503	1.01	
Chromium	24.9	0.251	1.01	
Cobalt	8.71	0.251	1.01	
Copper	27.6	0.503	1.01	
Lead	28.2	0.503	1.01	
Molybdenum	1.54	0.251	1.01	
Nickel	23.3	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	2.31	0.754	1.01	
Vanadium	40.2	0.251	1.01	
Zinc	74.4	1.01	1.01	

B59-0.5	**18-08-1130-51-A**	**08/13/18 13:02**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:03**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	164	0.505	1.01	
Beryllium	0.716	0.253	1.01	
Cadmium	1.60	0.505	1.01	
Chromium	34.3	0.253	1.01	
Cobalt	7.67	0.253	1.01	
Copper	32.8	0.505	1.01	
Lead	4.61	0.505	1.01	
Molybdenum	6.11	0.253	1.01	
Nickel	36.5	0.253	1.01	
Selenium	1.76	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	1.36	0.758	1.01	
Vanadium	42.8	0.253	1.01	
Zinc	75.8	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B60-0.5	**18-08-1130-54-A**	**08/13/18 13:17**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:08**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Barium	149	0.498	0.995	
Beryllium	0.662	0.249	0.995	
Cadmium	1.71	0.498	0.995	
Chromium	34.0	0.249	0.995	
Cobalt	8.35	0.249	0.995	
Copper	32.9	0.498	0.995	
Lead	6.42	0.498	0.995	
Molybdenum	6.29	0.249	0.995	
Nickel	39.0	0.249	0.995	
Selenium	2.39	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	1.33	0.746	0.995	
Vanadium	39.8	0.249	0.995	
Zinc	76.1	0.995	0.995	

B60-0.5 DUP	**18-08-1130-55-A**	**08/13/18 13:17**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:09**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	176	0.505	1.01	
Beryllium	0.755	0.253	1.01	
Cadmium	2.22	0.505	1.01	
Chromium	37.2	0.253	1.01	
Cobalt	9.79	0.253	1.01	
Copper	39.2	0.505	1.01	
Lead	7.85	0.505	1.01	
Molybdenum	7.33	0.253	1.01	
Nickel	53.8	0.253	1.01	
Selenium	2.65	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	1.38	0.758	1.01	
Vanadium	46.0	0.253	1.01	
Zinc	90.3	1.01	1.01	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 11 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61-0.5	**18-08-1130-60-A**	**08/13/18 13:32**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:11**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	190	0.505	1.01	
Beryllium	0.824	0.253	1.01	
Cadmium	2.07	0.505	1.01	
Chromium	35.5	0.253	1.01	
Cobalt	8.83	0.253	1.01	
Copper	38.2	0.505	1.01	
Lead	87.6	0.505	1.01	
Molybdenum	7.87	0.253	1.01	
Nickel	35.1	0.253	1.01	
Selenium	1.08	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	1.50	0.758	1.01	
Vanadium	50.5	0.253	1.01	
Zinc	151	1.01	1.01	

B62-0.5	**18-08-1130-63-A**	**08/13/18 13:47**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:12**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	147	0.500	1.00	
Beryllium	0.607	0.250	1.00	
Cadmium	1.28	0.500	1.00	
Chromium	24.8	0.250	1.00	
Cobalt	7.41	0.250	1.00	
Copper	28.4	0.500	1.00	
Lead	46.0	0.500	1.00	
Molybdenum	3.16	0.250	1.00	
Nickel	27.6	0.250	1.00	
Selenium	1.72	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	1.49	0.750	1.00	
Vanadium	39.0	0.250	1.00	
Zinc	201	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 12 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B63-0.5	**18-08-1130-64-A**	**08/13/18 14:02**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:14**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Barium	201	0.500	1.00	
Beryllium	0.754	0.250	1.00	
Cadmium	1.67	0.500	1.00	
Chromium	33.2	0.250	1.00	
Cobalt	8.90	0.250	1.00	
Copper	35.4	0.500	1.00	
Lead	57.4	0.500	1.00	
Molybdenum	3.01	0.250	1.00	
Nickel	35.3	0.250	1.00	
Selenium	0.826	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	1.57	0.750	1.00	
Vanadium	46.2	0.250	1.00	
Zinc	172	1.00	1.00	

B64-0.5	**18-08-1130-66-A**	**08/13/18 14:17**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:15**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	179	0.493	0.985	
Beryllium	0.745	0.246	0.985	
Cadmium	1.64	0.493	0.985	
Chromium	25.8	0.246	0.985	
Cobalt	7.56	0.246	0.985	
Copper	22.4	0.493	0.985	
Lead	5.54	0.493	0.985	
Molybdenum	3.55	0.246	0.985	
Nickel	28.5	0.246	0.985	
Selenium	0.885	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	1.87	0.739	0.985	
Vanadium	46.1	0.246	0.985	
Zinc	58.8	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B65-0.5	**18-08-1130-69-A**	**08/13/18 14:32**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:17**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	195	0.493	0.985	
Beryllium	0.739	0.246	0.985	
Cadmium	1.88	0.493	0.985	
Chromium	28.9	0.246	0.985	
Cobalt	8.37	0.246	0.985	
Copper	34.4	0.493	0.985	
Lead	20.7	0.493	0.985	
Molybdenum	2.84	0.246	0.985	
Nickel	30.8	0.246	0.985	
Selenium	1.54	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	1.40	0.739	0.985	
Vanadium	46.6	0.246	0.985	
Zinc	95.6	0.985	0.985	

B66-0.5	**18-08-1130-72-A**	**08/13/18 14:47**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:18**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	185	0.493	0.985	
Beryllium	0.701	0.246	0.985	
Cadmium	1.45	0.493	0.985	
Chromium	28.0	0.246	0.985	
Cobalt	6.95	0.246	0.985	
Copper	32.2	0.493	0.985	
Lead	6.96	0.493	0.985	
Molybdenum	2.37	0.246	0.985	
Nickel	29.5	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	1.39	0.739	0.985	
Vanadium	35.9	0.246	0.985	
Zinc	61.4	0.985	0.985	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 14 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B67-0.5	**18-08-1130-75-A**	**08/13/18 15:02**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:20**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Barium	190	0.493	0.985	B
Beryllium	0.747	0.246	0.985	
Cadmium	1.61	0.493	0.985	
Chromium	30.1	0.246	0.985	
Cobalt	8.36	0.246	0.985	
Copper	28.2	0.493	0.985	
Lead	7.35	0.493	0.985	
Molybdenum	3.32	0.246	0.985	
Nickel	34.4	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	1.49	0.739	0.985	
Vanadium	44.0	0.246	0.985	
Zinc	67.6	0.985	0.985	

Method Blank	**097-01-002-26869**	**N/A**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 14:54**	**180820L07**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Barium	ND	0.488	0.976	
Beryllium	ND	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	ND	0.244	0.976	
Cobalt	ND	0.244	0.976	
Copper	ND	0.488	0.976	
Lead	ND	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	ND	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	ND	0.244	0.976	
Zinc	ND	0.976	0.976	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-26871**	**N/A**	**Solid**	**ICP 8300**	**08/21/18**	**08/29/18 13:06**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Barium	ND	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	ND	0.245	0.980	
Cobalt	ND	0.245	0.980	
Copper	ND	0.490	0.980	
Lead	ND	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	ND	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	ND	0.245	0.980	
Zinc	ND	0.980	0.980	

Method Blank	**097-01-002-26839**	**N/A**	**Solid**	**ICP 8300**	**08/21/18**	**08/23/18 18:52**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Barium	0.703	0.495	0.990	
Beryllium	ND	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	ND	0.248	0.990	
Cobalt	ND	0.248	0.990	
Copper	ND	0.495	0.990	
Lead	ND	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	ND	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	ND	0.248	0.990	
Zinc	ND	0.990	0.990	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: 9836003557			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**18-08-1130-78-B**	**08/13/18 16:00**	**Aqueous**	**ICP 8300**	**08/20/18**	**08/26/18 14:02**	**180820LA2**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	0.0185	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-17016**	**N/A**	**Aqueous**	**ICP 8300**	**08/20/18**	**08/26/18 14:43**	**180820LA2**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3020A Total
		Method:	EPA 6020
		Units:	mg/L
Project: 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**18-08-1130-78-A**	**08/13/18 16:00**	**Aqueous**	**ICP/MS 05**	**08/20/18**	**08/27/18 17:00**	**180819LA1**

Parameter	Result	RL	DF	Qualifiers
Arsenic	0.00509	0.00100	1.00	

Method Blank	**096-06-003-6007**	**N/A**	**Aqueous**	**ICP/MS 05**	**08/19/18**	**08/20/18 13:38**	**180819LA1**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	0.00100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 9836003557			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41A-0.5	**18-08-1130-1-A**	**08/13/18 07:42**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 02:54**	**180823L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.92	1.00	1.00	

B41A-0.5 DUP	**18-08-1130-2-A**	**08/13/18 07:42**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 02:57**	**180823L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.24	1.00	1.00	

B41B-0.5	**18-08-1130-7-A**	**08/13/18 07:57**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 12:21**	**180823L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.89	5.00	5.00	

B41C-0.5	**18-08-1130-10-A**	**08/13/18 08:12**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 03:15**	**180823L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.46	1.00	1.00	

B43A-0.5	**18-08-1130-13-A**	**08/13/18 08:52**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 03:19**	**180823L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	21.4	1.00	1.00	

B43B-0.5	**18-08-1130-16-A**	**08/13/18 08:37**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 12:25**	**180823L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	11.3	5.00	5.00	

B43C-0.5	**18-08-1130-19-A**	**08/13/18 09:07**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:31**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.20	1.00	1.00	

B50-0.5	**18-08-1130-22-A**	**08/13/18 09:17**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:27**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.06	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 9836003557			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B51-0.5	**18-08-1130-25-A**	**08/13/18 09:32**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:34**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.30	1.00	1.00	

B51-0.5 DUP	**18-08-1130-26-A**	**08/13/18 09:32**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:38**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.34	1.00	1.00	

B52-0.5	**18-08-1130-31-A**	**08/13/18 09:47**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:41**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	17.0	1.00	1.00	

B53-0.5	**18-08-1130-34-A**	**08/13/18 09:57**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:45**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.64	1.00	1.00	

B54-0.5	**18-08-1130-36-A**	**08/13/18 10:07**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:59**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.23	1.00	1.00	

B55-0.5	**18-08-1130-39-A**	**08/13/18 10:22**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:03**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	1.64	1.00	1.00	

B56-0.5	**18-08-1130-42-A**	**08/13/18 10:37**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:06**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.42	1.00	1.00	

B57-0.5	**18-08-1130-45-A**	**08/13/18 10:52**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:10**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.43	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 9836003557			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B58-0.5	**18-08-1130-48-A**	**08/13/18 12:22**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:14**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.61	1.00	1.00	

B59-0.5	**18-08-1130-51-A**	**08/13/18 13:02**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:17**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.79	1.00	1.00	

B60-0.5	**18-08-1130-54-A**	**08/13/18 13:17**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:21**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.80	1.00	1.00	

B60-0.5 DUP	**18-08-1130-55-A**	**08/13/18 13:17**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:24**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	10.7	1.00	1.00	

B61-0.5	**18-08-1130-60-A**	**08/13/18 13:32**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:28**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.24	1.00	1.00	

B62-0.5	**18-08-1130-63-A**	**08/13/18 13:47**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 01:31**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.32	1.00	1.00	

B63-0.5	**18-08-1130-64-A**	**08/13/18 14:02**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 12:11**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.91	5.00	5.00	

B64-0.5	**18-08-1130-66-A**	**08/13/18 14:17**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 12:14**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.42	5.00	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: 9836003557			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B65-0.5	**18-08-1130-69-A**	**08/13/18 14:32**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 02:32**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.34	1.00	1.00	

B66-0.5	**18-08-1130-72-A**	**08/13/18 14:47**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 12:18**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.83	5.00	5.00	

B67-0.5	**18-08-1130-75-A**	**08/13/18 15:02**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 03:26**	**180823L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.95	1.00	1.00	

Method Blank	**099-15-621-1719**	**N/A**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/24/18 23:48**	**180823L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

Method Blank	**099-15-621-1718**	**N/A**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/24/18 23:51**	**180823L03**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
		Units:	mg/L
Project: 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**18-08-1130-78-B**	**08/13/18 16:00**	**Aqueous**	**Mercury 07**	**08/20/18**	**08/21/18 16:10**	**180820LA4**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

Method Blank	**099-04-008-8670**	**N/A**	**Aqueous**	**Mercury 07**	**08/20/18**	**08/21/18 15:33**	**180820LA4**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.000500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: 9836003557			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41A-0.5	**18-08-1130-1-A**	**08/13/18 07:42**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 14:51**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B41A-0.5 DUP	**18-08-1130-2-A**	**08/13/18 07:42**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 14:54**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B41B-0.5	**18-08-1130-7-A**	**08/13/18 07:57**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 14:56**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B41C-0.5	**18-08-1130-10-A**	**08/13/18 08:12**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 14:58**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

B43A-0.5	**18-08-1130-13-A**	**08/13/18 08:52**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 15:05**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.168	0.0794	1.00	

B43B-0.5	**18-08-1130-16-A**	**08/13/18 08:37**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 15:07**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0821	0.0794	1.00	

B43C-0.5	**18-08-1130-19-A**	**08/13/18 09:07**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:30**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B50-0.5	**18-08-1130-22-A**	**08/13/18 09:17**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:19**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0961	0.0820	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: 9836003557			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B51-0.5	**18-08-1130-25-A**	**08/13/18 09:32**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:32**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B51-0.5 DUP	**18-08-1130-26-A**	**08/13/18 09:32**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:35**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B52-0.5	**18-08-1130-31-A**	**08/13/18 09:47**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:37**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B53-0.5	**18-08-1130-34-A**	**08/13/18 09:57**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:39**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B54-0.5	**18-08-1130-36-A**	**08/13/18 10:07**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:42**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B55-0.5	**18-08-1130-39-A**	**08/13/18 10:22**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:44**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B56-0.5	**18-08-1130-42-A**	**08/13/18 10:37**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:46**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B57-0.5	**18-08-1130-45-A**	**08/13/18 10:52**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:49**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: 9836003557			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B58-0.5	**18-08-1130-48-A**	**08/13/18 12:22**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:56**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B59-0.5	**18-08-1130-51-A**	**08/13/18 13:02**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:58**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

B60-0.5	**18-08-1130-54-A**	**08/13/18 13:17**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:00**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B60-0.5 DUP	**18-08-1130-55-A**	**08/13/18 13:17**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:03**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

B61-0.5	**18-08-1130-60-A**	**08/13/18 13:32**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:05**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B62-0.5	**18-08-1130-63-A**	**08/13/18 13:47**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:07**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B63-0.5	**18-08-1130-64-A**	**08/13/18 14:02**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:09**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

B64-0.5	**18-08-1130-66-A**	**08/13/18 14:17**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:12**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: 9836003557			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B65-0.5	**18-08-1130-69-A**	**08/13/18 14:32**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:14**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

B66-0.5	**18-08-1130-72-A**	**08/13/18 14:47**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:16**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B67-0.5	**18-08-1130-75-A**	**08/13/18 15:02**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 15:10**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Method Blank	**099-16-272-4071**	**N/A**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 14:38**	**180821L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Method Blank	**099-16-272-4073**	**N/A**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:14**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 1 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41A-0.5	**18-08-1130-1-A**	**08/13/18 07:42**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 11:26**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 2 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41A-0.5 DUP	**18-08-1130-2-A**	**08/13/18 07:42**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 11:40**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	5.7	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 3 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41B-0.5	**18-08-1130-7-A**	**08/13/18 07:57**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 11:54**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	72	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 4 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B41C-0.5	**18-08-1130-10-A**	**08/13/18 08:12**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 12:08**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 5 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B43A-0.5	**18-08-1130-13-A**	**08/13/18 08:52**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 12:23**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	110	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	14	5.0	1.00	
4,4'-DDT	10	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	24-168	
2,4,5,6-Tetrachloro-m-Xylene	91	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 6 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B43B-0.5	**18-08-1130-16-A**	**08/13/18 08:37**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 12:37**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	16	5.0	1.00	
4,4'-DDT	31	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	119	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 7 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B43C-0.5	**18-08-1130-19-A**	**08/13/18 09:07**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 12:51**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	50	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	11	4.9	1.00	
4,4'-DDT	14	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	12	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	101	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 8 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B50-0.5	**18-08-1130-22-A**	**08/13/18 09:17**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 13:05**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	160	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	19	5.0	1.00	
4,4'-DDT	13	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 9 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B51-0.5	**18-08-1130-25-A**	**08/13/18 09:32**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 13:19**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	7.0	5.0	1.00	
4,4'-DDT	5.6	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 10 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B51-0.5 DUP	**18-08-1130-26-A**	**08/13/18 09:32**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 13:34**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	11	5.0	1.00	
4,4'-DDT	6.9	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 11 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52-0.5	**18-08-1130-31-A**	**08/13/18 09:47**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 13:48**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	130	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	33	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 12 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B53-0.5	**18-08-1130-34-A**	**08/13/18 09:57**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 14:02**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	81	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	126	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 13 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B54-0.5	**18-08-1130-36-A**	**08/13/18 10:07**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 14:17**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	19	4.9	1.00	
4,4'-DDT	5.3	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 14 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B55-0.5	**18-08-1130-39-A**	**08/13/18 10:22**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 14:31**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	87	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B56-0.5	**18-08-1130-42-A**	**08/13/18 10:37**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 14:45**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	8.1	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B57-0.5	**18-08-1130-45-A**	**08/13/18 10:52**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 14:59**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	53	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 17 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B58-0.5	**18-08-1130-48-A**	**08/13/18 12:22**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 15:14**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	240	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	29	5.0	1.00	
4,4'-DDT	8.8	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 18 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B59-0.5	**18-08-1130-51-A**	**08/13/18 13:02**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 13:09**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B60-0.5	**18-08-1130-54-A**	**08/13/18 13:17**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 15:28**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 20 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B60-0.5 DUP	**18-08-1130-55-A**	**08/13/18 13:17**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 17:07**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	49	24-168	
2,4,5,6-Tetrachloro-m-Xylene	44	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61-0.5	**18-08-1130-60-A**	**08/13/18 13:32**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 17:21**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	710	49	1.00	
4,4'-DDD	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	9.3	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	69	25-145	

B61-0.5	**18-08-1130-60-A**	**08/13/18 13:32**	**Solid**	**GC 44**	**08/16/18**	**08/21/18 17:48**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	560	250	50.0	
4,4'-DDT	590	250	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	126	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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EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B62-0.5	**18-08-1130-63-A**	**08/13/18 13:47**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 17:04**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	5.1	5.0	1.00	
4,4'-DDT	35	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	6.6	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	24-168	
2,4,5,6-Tetrachloro-m-Xylene	112	25-145	

B62-0.5	**18-08-1130-63-A**	**08/13/18 13:47**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 17:35**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	97	50	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	110	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 23 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B63-0.5	**18-08-1130-64-A**	**08/13/18 14:02**	**Solid**	**GC 44**	**08/16/18**	**08/21/18 17:06**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	50	10.0	
Alpha-BHC	ND	100	10.0	
Beta-BHC	ND	50	10.0	
Chlordane	69	50	1.00	
4,4'-DDD	ND	50	10.0	
Delta-BHC	ND	100	10.0	
Dieldrin	ND	50	10.0	
Endosulfan I	ND	50	10.0	
Endosulfan II	ND	50	10.0	
Endosulfan Sulfate	ND	50	10.0	
Endrin	ND	50	10.0	
Endrin Aldehyde	ND	50	10.0	
Endrin Ketone	ND	50	10.0	
Gamma-BHC	ND	50	10.0	
Heptachlor	ND	50	10.0	
Heptachlor Epoxide	ND	100	10.0	
Methoxychlor	ND	50	10.0	
Toxaphene	ND	1000	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	117	25-145	

B63-0.5	**18-08-1130-64-A**	**08/13/18 14:02**	**Solid**	**GC 44**	**08/16/18**	**08/21/18 17:34**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	460	250	50.0	
4,4'-DDT	410	250	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 24 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B64-0.5	**18-08-1130-66-A**	**08/13/18 14:17**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 17:33**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 25 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B65-0.5	**18-08-1130-69-A**	**08/13/18 14:32**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 17:47**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	12	4.9	1.00	
4,4'-DDT	14	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

B65-0.5	**18-08-1130-69-A**	**08/13/18 14:32**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 18:04**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	79	49	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 26 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B66-0.5	**18-08-1130-72-A**	**08/13/18 14:47**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 18:01**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 27 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B67-0.5	**18-08-1130-75-A**	**08/13/18 15:02**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 18:16**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	24-168	
2,4,5,6-Tetrachloro-m-Xylene	108	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 28 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3001**	**N/A**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 11:11**	**180816L09**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	24-168	
2,4,5,6-Tetrachloro-m-Xylene	127	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: 9836003557			Page 29 of 29

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3000**	**N/A**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 11:01**	**180816L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	24-168	
2,4,5,6-Tetrachloro-m-Xylene	122	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: 9836003557			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB-3	**18-08-1130-78-C**	**08/13/18 16:00**	**Aqueous**	**GC 44**	**08/17/18**	**08/20/18 18:46**	**180817L02**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.094	1.00	
Gamma-BHC	ND	0.094	1.00	
Beta-BHC	ND	0.094	1.00	
Heptachlor	ND	0.094	1.00	
Delta-BHC	ND	0.094	1.00	
Aldrin	ND	0.094	1.00	
Heptachlor Epoxide	ND	0.094	1.00	
Endosulfan I	ND	0.094	1.00	
Dieldrin	ND	0.094	1.00	
4,4'-DDE	ND	0.094	1.00	
Endrin	ND	0.094	1.00	
Endrin Aldehyde	ND	0.094	1.00	
4,4'-DDD	ND	0.094	1.00	
Endosulfan II	ND	0.094	1.00	
4,4'-DDT	ND	0.094	1.00	
Endosulfan Sulfate	ND	0.094	1.00	
Methoxychlor	ND	0.094	1.00	
Chlordane	ND	0.94	1.00	
Toxaphene	ND	1.9	1.00	
Endrin Ketone	ND	0.094	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	50-135	
2,4,5,6-Tetrachloro-m-Xylene	104	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
		Units:	ug/L
Project: 9836003557			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	**099-12-529-1043**	**N/A**	**Aqueous**	**GC 44**	**08/17/18**	**08/20/18 18:32**	**180817L02**

Parameter	Result	RL	DF	Qualifiers
Alpha-BHC	ND	0.10	1.00	
Gamma-BHC	ND	0.10	1.00	
Beta-BHC	ND	0.10	1.00	
Heptachlor	ND	0.10	1.00	
Delta-BHC	ND	0.10	1.00	
Aldrin	ND	0.10	1.00	
Heptachlor Epoxide	ND	0.10	1.00	
Endosulfan I	ND	0.10	1.00	
Dieldrin	ND	0.10	1.00	
4,4'-DDE	ND	0.10	1.00	
Endrin	ND	0.10	1.00	
Endrin Aldehyde	ND	0.10	1.00	
4,4'-DDD	ND	0.10	1.00	
Endosulfan II	ND	0.10	1.00	
4,4'-DDT	ND	0.10	1.00	
Endosulfan Sulfate	ND	0.10	1.00	
Methoxychlor	ND	0.10	1.00	
Chlordane	ND	1.0	1.00	
Toxaphene	ND	2.0	1.00	
Endrin Ketone	ND	0.10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	50-135	
2,4,5,6-Tetrachloro-m-Xylene	100	50-135	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 9836003557			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B50-0.5	**18-08-1130-22-A**	**08/13/18 09:17**	**Solid**	**GC 31**	**08/16/18**	**08/17/18 18:56**	**180816L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

B51-0.5	**18-08-1130-25-A**	**08/13/18 09:32**	**Solid**	**GC 31**	**08/16/18**	**08/17/18 19:15**	**180816L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: 9836003557			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B55-0.5	**18-08-1130-39-A**	**08/13/18 10:22**	**Solid**	**GC 31**	**08/16/18**	**08/17/18 19:34**	**180816L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	49	1.00	
Aroclor-1221	ND	49	1.00	
Aroclor-1232	ND	49	1.00	
Aroclor-1242	ND	49	1.00	
Aroclor-1248	ND	49	1.00	
Aroclor-1254	ND	49	1.00	
Aroclor-1260	ND	49	1.00	
Aroclor-1262	ND	49	1.00	
Aroclor-1268	ND	49	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

Method Blank	**099-12-535-4830**	**N/A**	**Solid**	**GC 31**	**08/16/18**	**08/17/18 09:46**	**180816L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	108	24-168	
2,4,5,6-Tetrachloro-m-Xylene	106	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1262-9	**Sample**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 14:57**	**180820S07**
18-08-1262-9	**Matrix Spike**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 15:09**	**180820S07**
18-08-1262-9	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 15:11**	**180820S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.427	22	3.004	12	50-115	57	0-20	3,4
Barium	82.77	25.00	114.5	127	105.6	91	75-125	8	0-20	3
Beryllium	0.4669	25.00	26.31	103	25.91	102	75-125	2	0-20	
Cadmium	0.9774	25.00	26.39	102	29.86	116	75-125	12	0-20	
Chromium	21.67	25.00	49.24	110	45.44	95	75-125	8	0-20	
Cobalt	11.77	25.00	35.51	95	38.04	105	75-125	7	0-20	
Copper	49.11	25.00	91.97	171	92.45	173	75-125	1	0-20	3
Lead	6.381	25.00	34.10	111	33.61	109	75-125	1	0-20	
Molybdenum	ND	25.00	17.74	71	17.03	68	75-125	4	0-20	3
Nickel	25.77	25.00	55.52	119	52.63	107	75-125	5	0-20	
Selenium	ND	25.00	10.77	43	8.059	32	75-125	29	0-20	3,4
Silver	ND	12.50	11.40	91	3.115	25	75-125	114	0-20	3,4
Thallium	1.444	25.00	19.22	71	25.88	98	75-125	30	0-20	3,4
Vanadium	43.90	25.00	68.94	100	62.98	76	75-125	9	0-20	
Zinc	32.08	25.00	57.91	103	54.23	89	75-125	7	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 2 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B50-0.5	**Sample**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:31**	**180821S01**
B50-0.5	**Matrix Spike**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:33**	**180821S01**
B50-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:34**	**180821S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.618	22	6.718	27	50-115	18	0-20	3
Barium	170.8	25.00	199.1	4X	209.4	4X	75-125	4X	0-20	Q
Beryllium	0.7208	25.00	25.78	100	26.43	103	75-125	2	0-20	
Cadmium	1.825	25.00	29.40	110	30.17	113	75-125	3	0-20	
Chromium	30.61	25.00	57.38	107	58.18	110	75-125	1	0-20	
Cobalt	9.240	25.00	34.52	101	35.63	106	75-125	3	0-20	
Copper	30.54	25.00	55.51	100	58.29	111	75-125	5	0-20	
Lead	12.89	25.00	40.19	109	41.50	114	75-125	3	0-20	
Molybdenum	3.784	25.00	26.56	91	28.00	97	75-125	5	0-20	
Nickel	32.95	25.00	60.14	109	61.72	115	75-125	3	0-20	
Selenium	ND	25.00	25.07	100	26.56	106	75-125	6	0-20	
Silver	ND	12.50	13.03	104	13.25	106	75-125	2	0-20	
Thallium	1.488	25.00	24.20	91	25.12	95	75-125	4	0-20	
Vanadium	45.41	25.00	73.11	111	73.84	114	75-125	1	0-20	
Zinc	86.97	25.00	111.2	97	116.9	120	75-125	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 3 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1157-1	**Sample**	**Solid**	**ICP 8300**	**08/21/18**	**08/23/18 18:56**	**180821S02**
18-08-1157-1	**Matrix Spike**	**Solid**	**ICP 8300**	**08/21/18**	**08/23/18 18:58**	**180821S02**
18-08-1157-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/21/18**	**08/23/18 19:00**	**180821S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.202	21	6.383	26	50-115	20	0-20	3
Barium	132.8	25.00	162.4	4X	161.6	4X	75-125	4X	0-20	Q
Beryllium	0.7039	25.00	25.46	99	25.00	97	75-125	2	0-20	
Cadmium	ND	25.00	26.90	108	26.58	106	75-125	1	0-20	
Chromium	17.30	25.00	43.47	105	41.64	97	75-125	4	0-20	
Cobalt	8.870	25.00	34.97	104	34.24	101	75-125	2	0-20	
Copper	14.75	25.00	42.34	110	42.57	111	75-125	1	0-20	
Lead	8.069	25.00	34.02	104	33.89	103	75-125	0	0-20	
Molybdenum	ND	25.00	20.76	83	20.97	84	75-125	1	0-20	
Nickel	12.52	25.00	39.92	110	39.15	107	75-125	2	0-20	
Selenium	ND	25.00	24.25	97	23.77	95	75-125	2	0-20	
Silver	ND	12.50	12.41	99	12.21	98	75-125	2	0-20	
Thallium	1.588	25.00	24.94	93	24.28	91	75-125	3	0-20	
Vanadium	31.20	25.00	58.12	108	58.01	107	75-125	0	0-20	
Zinc	45.72	25.00	77.15	126	75.30	118	75-125	2	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: 9836003557			Page 4 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1137-5	**Sample**	**Aqueous**	**ICP 8300**	**08/20/18**	**08/26/18 14:45**	**180820SA2**
18-08-1137-5	**Matrix Spike**	**Aqueous**	**ICP 8300**	**08/20/18**	**08/26/18 14:50**	**180820SA2**
18-08-1137-5	**Matrix Spike Duplicate**	**Aqueous**	**ICP 8300**	**08/20/18**	**08/26/18 14:51**	**180820SA2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.5000	0.4845	97	0.5287	106	72-132	9	0-10	
Arsenic	ND	0.5000	0.5207	104	0.5591	112	80-140	7	0-11	
Barium	0.06945	0.5000	0.6050	107	0.6444	115	87-123	6	0-6	
Beryllium	ND	0.5000	0.5471	109	0.5723	114	89-119	4	0-8	
Cadmium	ND	0.5000	0.5738	115	0.6216	124	82-124	8	0-7	4
Chromium	ND	0.5000	0.5335	107	0.5606	112	86-122	5	0-8	
Cobalt	ND	0.5000	0.5450	109	0.5870	117	83-125	7	0-7	
Copper	0.01228	0.5000	0.5227	102	0.5552	109	78-126	6	0-7	
Lead	ND	0.5000	0.5422	108	0.5856	117	84-120	8	0-7	4
Molybdenum	ND	0.5000	0.5167	103	0.5520	110	78-126	7	0-7	
Nickel	ND	0.5000	0.5260	105	0.5684	114	84-120	8	0-7	4
Selenium	ND	0.5000	0.5009	100	0.4859	97	79-127	3	0-9	
Silver	ND	0.2500	0.05526	22	0.04086	16	86-128	30	0-7	3,4
Thallium	ND	0.5000	0.5072	101	0.5515	110	79-121	8	0-8	
Vanadium	ND	0.5000	0.5102	102	0.5419	108	88-118	6	0-7	
Zinc	0.04835	0.5000	0.5733	105	0.6234	115	89-131	8	0-8	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: 9836003557			Page 5 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1166-1	**Sample**	**Aqueous**	**ICP/MS 05**	**08/19/18**	**08/20/18 14:24**	**180819SA1**
18-08-1166-1	**Matrix Spike**	**Aqueous**	**ICP/MS 05**	**08/19/18**	**08/20/18 13:59**	**180819SA1**
18-08-1166-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP/MS 05**	**08/19/18**	**08/20/18 14:03**	**180819SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	0.1000	0.1012	101	0.09800	98	73-127	3	0-11	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 6 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B50-0.5	**Sample**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:27**	**180823S02**
B50-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:13**	**180823S02**
B50-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 00:16**	**180823S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	9.064	25.00	39.43	121	37.73	115	72-132	4	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 7 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B41A-0.5	**Sample**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 02:54**	**180823S03**
B41A-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 02:39**	**180823S03**
B41A-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/25/18 02:43**	**180823S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	7.921	25.00	36.07	113	37.70	119	72-132	4	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: 9836003557			Page 8 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1119-1	**Sample**	**Aqueous**	**Mercury 07**	**08/20/18**	**08/21/18 15:38**	**180820SA4**
18-08-1119-1	**Matrix Spike**	**Aqueous**	**Mercury 07**	**08/20/18**	**08/21/18 15:40**	**180820SA4**
18-08-1119-1	**Matrix Spike Duplicate**	**Aqueous**	**Mercury 07**	**08/20/18**	**08/21/18 15:43**	**180820SA4**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.009590	96	0.008944	89	55-133	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1262-9	**Sample**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 14:42**	**180821S02**
18-08-1262-9	**Matrix Spike**	**Solid**	**Mercury 08**	**08/21/18**	**08/23/18 12:28**	**180821S02**
18-08-1262-9	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 14:47**	**180821S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7119	85	0.8804	105	71-137	21	0-14	4

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 10 of 13

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B50-0.5	**Sample**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:19**	**180821S04**
B50-0.5	**Matrix Spike**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:21**	**180821S04**
B50-0.5	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:28**	**180821S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.09610	0.8350	0.9563	103	0.8895	95	71-137	7	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B43A-0.5	**Sample**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 12:23**	**180816S09**
B43A-0.5	**Matrix Spike**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 16:38**	**180816S09**
B43A-0.5	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 16:53**	**180816S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	27.13	109	26.63	107	50-135	2	0-25	
Alpha-BHC	ND	25.00	23.08	92	22.99	92	50-135	0	0-25	
Beta-BHC	ND	25.00	24.46	98	24.62	98	50-135	1	0-25	
4,4'-DDD	ND	25.00	37.46	150	39.38	158	50-135	5	0-25	3
4,4'-DDE	14.20	25.00	42.19	112	42.92	115	50-135	2	0-25	
4,4'-DDT	10.19	25.00	46.89	147	45.66	142	50-135	3	0-25	3
Delta-BHC	ND	25.00	27.25	109	26.61	106	50-135	2	0-25	
Dieldrin	ND	25.00	32.86	131	33.21	133	50-135	1	0-25	
Endosulfan I	ND	25.00	33.16	133	32.98	132	50-135	1	0-25	
Endosulfan II	ND	25.00	30.04	120	28.84	115	50-135	4	0-25	
Endosulfan Sulfate	ND	25.00	27.93	112	27.85	111	50-135	0	0-25	
Endrin	ND	25.00	27.96	112	29.16	117	50-135	4	0-25	
Endrin Aldehyde	ND	25.00	22.22	89	21.80	87	50-135	2	0-25	
Gamma-BHC	ND	25.00	23.56	94	23.49	94	50-135	0	0-25	
Heptachlor	ND	25.00	27.27	109	26.48	106	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	30.16	121	29.28	117	50-135	3	0-25	
Methoxychlor	ND	25.00	30.47	122	26.75	107	50-135	13	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B59-0.5	**Sample**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 13:09**	**180816S10**
B59-0.5	**Matrix Spike**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 12:40**	**180816S10**
B59-0.5	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 12:55**	**180816S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	27.76	111	26.59	106	50-135	4	0-25	
Alpha-BHC	ND	25.00	28.27	113	27.10	108	50-135	4	0-25	
Beta-BHC	ND	25.00	30.24	121	28.51	114	50-135	6	0-25	
4,4'-DDD	ND	25.00	31.08	124	31.46	126	50-135	1	0-25	
4,4'-DDE	ND	25.00	31.24	125	29.36	117	50-135	6	0-25	
4,4'-DDT	ND	25.00	27.46	110	19.22	77	50-135	35	0-25	4
Delta-BHC	ND	25.00	30.04	120	28.44	114	50-135	5	0-25	
Dieldrin	ND	25.00	30.02	120	28.29	113	50-135	6	0-25	
Endosulfan I	ND	25.00	30.57	122	28.86	115	50-135	6	0-25	
Endosulfan II	ND	25.00	30.28	121	28.14	113	50-135	7	0-25	
Endosulfan Sulfate	ND	25.00	29.34	117	27.28	109	50-135	7	0-25	
Endrin	ND	25.00	29.06	116	27.30	109	50-135	6	0-25	
Endrin Aldehyde	ND	25.00	24.20	97	24.14	97	50-135	0	0-25	
Gamma-BHC	ND	25.00	28.96	116	27.43	110	50-135	5	0-25	
Heptachlor	ND	25.00	28.35	113	26.76	107	50-135	6	0-25	
Heptachlor Epoxide	ND	25.00	29.06	116	27.52	110	50-135	5	0-25	
Methoxychlor	ND	25.00	28.36	113	20.32	81	50-135	33	0-25	4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-08-1156-1	**Sample**	**Solid**	**GC 31**	**08/16/18**	**08/17/18 11:02**	**180816S11**
18-08-1156-1	**Matrix Spike**	**Solid**	**GC 31**	**08/16/18**	**08/17/18 10:24**	**180816S11**
18-08-1156-1	**Matrix Spike Duplicate**	**Solid**	**GC 31**	**08/16/18**	**08/17/18 10:43**	**180816S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	111.5	112	124.5	124	50-135	11	0-20	
Aroclor-1260	ND	100.0	93.00	93	100.5	100	50-135	8	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: 9836003557			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-08-1166-1	**Sample**	**Aqueous**	**ICP/MS 05**	**08/19/18 00:00**	**08/20/18 14:24**	**180819SA1**
18-08-1166-1	**PDS**	**Aqueous**	**ICP/MS 05**	**08/19/18 00:00**	**08/20/18 14:17**	**180819SA1**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	0.1000	0.09688	97	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B50-0.5	**Sample**	**Solid**	**ICP/MS 05**	**08/23/18 00:00**	**08/25/18 00:27**	**180823S02**
B50-0.5	**PDS**	**Solid**	**ICP/MS 05**	**08/23/18 00:00**	**08/25/18 00:20**	**180823S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	9.064	25.00	31.73	91	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B41A-0.5	**Sample**	**Solid**	**ICP/MS 05**	**08/23/18 00:00**	**08/25/18 02:54**	**180823S03**
B41A-0.5	**PDS**	**Solid**	**ICP/MS 05**	**08/23/18 00:00**	**08/25/18 02:47**	**180823S03**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	7.921	25.00	35.09	109	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26869	**LCS**	**Solid**	**ICP 8300**	**08/20/18**	**08/27/18 14:55**	**180820L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	22.69	91	80-120	73-127	
Barium	25.00	25.83	103	80-120	73-127	
Beryllium	25.00	24.91	100	80-120	73-127	
Cadmium	25.00	25.16	101	80-120	73-127	
Chromium	25.00	24.78	99	80-120	73-127	
Cobalt	25.00	25.03	100	80-120	73-127	
Copper	25.00	23.89	96	80-120	73-127	
Lead	25.00	27.49	110	80-120	73-127	
Molybdenum	25.00	24.66	99	80-120	73-127	
Nickel	25.00	25.19	101	80-120	73-127	
Selenium	25.00	23.01	92	80-120	73-127	
Silver	12.50	12.06	96	80-120	73-127	
Thallium	25.00	25.39	102	80-120	73-127	
Vanadium	25.00	23.69	95	80-120	73-127	
Zinc	25.00	26.17	105	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 2 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26871	**LCS**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:26**	**180821L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	21.93	88	80-120	73-127	
Barium	25.00	25.69	103	80-120	73-127	
Beryllium	25.00	22.66	91	80-120	73-127	
Cadmium	25.00	23.88	96	80-120	73-127	
Chromium	25.00	24.11	96	80-120	73-127	
Cobalt	25.00	23.10	92	80-120	73-127	
Copper	25.00	23.66	95	80-120	73-127	
Lead	25.00	25.83	103	80-120	73-127	
Molybdenum	25.00	25.57	102	80-120	73-127	
Nickel	25.00	22.88	92	80-120	73-127	
Selenium	25.00	22.49	90	80-120	73-127	
Silver	12.50	11.75	94	80-120	73-127	
Thallium	25.00	22.74	91	80-120	73-127	
Vanadium	25.00	23.51	94	80-120	73-127	
Zinc	25.00	25.03	100	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 3 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26839	**LCS**	**Solid**	**ICP 8300**	**08/21/18**	**08/23/18 18:54**	**180821L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	23.10	92	80-120	73-127	
Barium	25.00	26.78	107	80-120	73-127	
Beryllium	25.00	24.46	98	80-120	73-127	
Cadmium	25.00	25.07	100	80-120	73-127	
Chromium	25.00	25.38	102	80-120	73-127	
Cobalt	25.00	24.84	99	80-120	73-127	
Copper	25.00	24.93	100	80-120	73-127	
Lead	25.00	27.18	109	80-120	73-127	
Molybdenum	25.00	24.64	99	80-120	73-127	
Nickel	25.00	25.14	101	80-120	73-127	
Selenium	25.00	23.22	93	80-120	73-127	
Silver	12.50	12.34	99	80-120	73-127	
Thallium	25.00	25.19	101	80-120	73-127	
Vanadium	25.00	24.35	97	80-120	73-127	
Zinc	25.00	25.92	104	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
Project: 9836003557			Page 4 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-17016	**LCS**	**Aqueous**	**ICP 8300**	**08/20/18**	**08/26/18 14:44**	**180820LA2**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.5000	0.4706	94	80-120	73-127	
Arsenic	0.5000	0.4708	94	80-120	73-127	
Barium	0.5000	0.5308	106	80-120	73-127	
Beryllium	0.5000	0.5175	104	80-120	73-127	
Cadmium	0.5000	0.5206	104	80-120	73-127	
Chromium	0.5000	0.5176	104	80-120	73-127	
Cobalt	0.5000	0.5175	103	80-120	73-127	
Copper	0.5000	0.4891	98	80-120	73-127	
Lead	0.5000	0.5379	108	80-120	73-127	
Molybdenum	0.5000	0.5028	101	80-120	73-127	
Nickel	0.5000	0.4913	98	80-120	73-127	
Selenium	0.5000	0.4868	97	80-120	73-127	
Silver	0.2500	0.2434	97	80-120	73-127	
Thallium	0.5000	0.4973	99	80-120	73-127	
Vanadium	0.5000	0.4867	97	80-120	73-127	
Zinc	0.5000	0.4965	99	80-120	73-127	

Total number of LCS compounds: 16
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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3020A Total
		Method:	EPA 6020
Project: 9836003557			Page 5 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-6007	**LCS**	**Aqueous**	**ICP/MS 05**	**08/19/18**	**08/20/18 13:52**	**180819LA1**
096-06-003-6007	**LCSD**	**Aqueous**	**ICP/MS 05**	**08/19/18**	**08/20/18 13:55**	**180819LA1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	0.1000	0.1026	103	0.1020	102	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 6 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1719	**LCS**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/24/18 23:55**	**180823L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	22.01	88	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 9836003557			Page 7 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-621-1718	**LCS**	**Solid**	**ICP/MS 05**	**08/23/18**	**08/24/18 23:59**	**180823L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Arsenic	25.00	24.70	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7470A Total
		Method:	EPA 7470A
Project: 9836003557			Page 8 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-8670	**LCS**	**Aqueous**	**Mercury 07**	**08/20/18**	**08/21/18 15:36**	**180820LA4**
099-04-008-8670	**LCSD**	**Aqueous**	**Mercury 07**	**08/20/18**	**08/22/18 18:02**	**180820LA4**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	0.01005	101	0.008976	90	80-120	11	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 9 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4071	**LCS**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 14:40**	**180821L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.9118	109	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 10 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4073	**LCS**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:16**	**180821L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8858	106	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: 9836003557			Page 11 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3001	**LCS**	**Solid**	**GC 44**	**08/16/18**	**08/20/18 18:18**	**180816L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	26.08	104	50-135	36-149	
Alpha-BHC	25.00	26.13	105	50-135	36-149	
Beta-BHC	25.00	24.66	99	50-135	36-149	
4,4'-DDD	25.00	27.67	111	50-135	36-149	
4,4'-DDE	25.00	28.26	113	50-135	36-149	
4,4'-DDT	25.00	27.30	109	50-135	36-149	
Delta-BHC	25.00	26.53	106	50-135	36-149	
Dieldrin	25.00	27.70	111	50-135	36-149	
Endosulfan I	25.00	28.14	113	50-135	36-149	
Endosulfan II	25.00	27.28	109	50-135	36-149	
Endosulfan Sulfate	25.00	27.36	109	50-135	36-149	
Endrin	25.00	27.00	108	50-135	36-149	
Endrin Aldehyde	25.00	26.70	107	50-135	36-149	
Gamma-BHC	25.00	26.17	105	50-135	36-149	
Heptachlor	25.00	26.61	106	50-135	36-149	
Heptachlor Epoxide	25.00	27.12	108	50-135	36-149	
Methoxychlor	25.00	26.66	107	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: 9836003557			Page 12 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3000	**LCS**	**Solid**	**GC 44**	**08/16/18**	**08/17/18 11:15**	**180816L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	29.62	118	50-135	36-149	
Alpha-BHC	25.00	30.92	124	50-135	36-149	
Beta-BHC	25.00	30.20	121	50-135	36-149	
4,4'-DDD	25.00	31.73	127	50-135	36-149	
4,4'-DDE	25.00	31.76	127	50-135	36-149	
4,4'-DDT	25.00	31.45	126	50-135	36-149	
Delta-BHC	25.00	31.44	126	50-135	36-149	
Dieldrin	25.00	31.25	125	50-135	36-149	
Endosulfan I	25.00	31.72	127	50-135	36-149	
Endosulfan II	25.00	31.14	125	50-135	36-149	
Endosulfan Sulfate	25.00	31.00	124	50-135	36-149	
Endrin	25.00	29.18	117	50-135	36-149	
Endrin Aldehyde	25.00	30.51	122	50-135	36-149	
Gamma-BHC	25.00	31.21	125	50-135	36-149	
Heptachlor	25.00	31.10	124	50-135	36-149	
Heptachlor Epoxide	25.00	30.99	124	50-135	36-149	
Methoxychlor	25.00	29.22	117	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3510C
		Method:	EPA 8081A
Project: 9836003557			Page 13 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-529-1043	**LCS**	**Aqueous**	**GC 44**	**08/17/18**	**08/20/18 20:40**	**180817L02**
099-12-529-1043	**LCSD**	**Aqueous**	**GC 44**	**08/17/18**	**08/20/18 20:54**	**180817L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Alpha-BHC	0.5000	0.5720	114	0.5674	113	50-135	36-149	1	0-25	
Gamma-BHC	0.5000	0.5817	116	0.5775	116	50-135	36-149	1	0-25	
Beta-BHC	0.5000	0.5614	112	0.5537	111	50-135	36-149	1	0-25	
Heptachlor	0.5000	0.5631	113	0.5670	113	50-135	36-149	1	0-25	
Delta-BHC	0.5000	0.5405	108	0.5514	110	50-135	36-149	2	0-25	
Aldrin	0.5000	0.5337	107	0.5427	109	50-135	36-149	2	0-25	
Heptachlor Epoxide	0.5000	0.5917	118	0.5846	117	50-135	36-149	1	0-25	
Endosulfan I	0.5000	0.6011	120	0.5945	119	50-135	36-149	1	0-25	
Dieldrin	0.5000	0.5928	119	0.5855	117	50-135	36-149	1	0-25	
4,4'-DDE	0.5000	0.5993	120	0.5933	119	50-135	36-149	1	0-25	
Endrin	0.5000	0.5723	114	0.5723	114	50-135	36-149	0	0-25	
Endrin Aldehyde	0.5000	0.5038	101	0.5204	104	50-135	36-149	3	0-25	
4,4'-DDD	0.5000	0.6154	123	0.6010	120	50-135	36-149	2	0-25	
Endosulfan II	0.5000	0.6010	120	0.5881	118	50-135	36-149	2	0-25	
4,4'-DDT	0.5000	0.6118	122	0.5956	119	50-135	36-149	3	0-25	
Endosulfan Sulfate	0.5000	0.5898	118	0.5783	116	50-135	36-149	2	0-25	
Methoxychlor	0.5000	0.6034	121	0.5860	117	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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8082
Project: 9836003557			Page 14 of 14

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-4830	**LCS**	**Solid**	**GC 31**	**08/16/18**	**08/17/18 10:05**	**180816L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	106.0	106	50-135	
Aroclor-1260	100.0	94.00	94	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-08-1130

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3010A Total	110	ICP 8300	1
EPA 6010B	EPA 3050B	110	ICP 8300	1
EPA 6020	EPA 3020A Total	598	ICP/MS 05	1
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 7470A	EPA 7470A Total	868	Mercury 07	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8081A	EPA 3545	669	GC 44	1
EPA 8081A	EPA 3510C	669	GC 44	1
EPA 8082	EPA 3545	1028	GC 31	1

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Glossary of Terms and Qualifiers

Work Order: 18-08-1130 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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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_081318-1

18-08-1130

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B41A-0.5	1				X							08/13/18	7:42	X	X	X			X					X			
2	B41A-0.5 DUP	2				X							08/13/18	7:42	X	X	X			X					X			
3	B41A-1.5	3				X							08/13/18	7:45					X	X					X			
4	B41A-1.5 DUP	4				X							08/13/18	7:45					X	X					X			
5	B41A-3	5				X							08/13/18	7:50					X	X					X			
6	B41A-3 DUP	6				X							08/13/18	5:50					X	X					X			
7	B41B-0.5	7				X							08/13/18	7:57	X	X	X			X					X			
8	B41B-1.5	8				X							08/13/18	8:00					X	X					X			
9	B41B-3	9				X							08/13/18	8:05					X	X					X			
10	B41C-0.5	10				X							08/13/18	8:12	X	X	X			X					X			
11	B41C-1.5	11				X							08/13/18	8:15					X	X					X			
12	B41C-3	12				X							08/13/18	8:20					X	X					X			
13	B43A-0.5	13				X							08/13/18	8:52	X	X	X			X					X			
14	B43A-1.5	14				X							08/13/18	8:55					X	X					X			
15	B43A-3	15				X							08/13/18	9:00					X	X					X			
16	B43B-0.5	16				X							08/13/18	8:37	X	X	X			X					X			
17	B43B-1.5	17				X							08/13/18	8:40					X	X					X			
18	B43B-3	18				X							08/13/18	8:45					X	X					X			
19	B43C-0.5	19				X							08/13/18	9:07	X	X	X			X					X			
20	B43-1.5	20				X							08/13/18	9:10					X	X					X			

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_081318-2

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method:	Method:	Method:	Method:	Method:	Method:	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B43C-3	21				X							08/13/18	9:07											X	X					X			
2	B50-0.5	22				X							08/13/18	9:17	X	X	X	X								X					X			
3	B50-1.5	23				X							08/13/18	9:20											X	X					X			
4	B50-3	24				X							08/13/18	9:25											X	X					X			
5	B51-0.5	25				X							08/13/18	9:32	X	X	X	X								X					X			
6	B51-0.5 DUP	26				X							08/13/18	9:32	X	X	X								X	X					X			
7	B51-1.5	27				X							08/13/18	9:35											X	X					X			
8	B51-1.5 DUP	28				X							08/13/18	9:35											X	X					X			
9	B51-3	29				X							08/13/18	9:40											X	X					X			
10	B51-3 DUP	30				X							08/13/18	9:40											X	X					X			
11	B52-0.5	31				X							08/13/18	9:47	X	X	X									X					X			
12	B52-1.5	32				X							08/13/18	9:50											X	X					X			
13	B52-3	33				X							08/13/18	9:55											X	X					X			
14	B53-0.5	34				X							08/13/18	9:57	X	X	X									X					X			
15	B53-1.5	35				X							08/13/18	10:00											X	X					X			
16	B54-0.5	36				X							08/13/18	10:07	X	X	X									X					X			
17	B54-1.5	37				X							08/13/18	10:10											X	X					X			
18	B54-3	38				X							08/13/18	10:15											X	X					X			
19	B55-0.5	39				X							08/13/18	10:22	X	X	X	X								X					X			
20	B55-1.5	40				X							08/13/18	10:30											X	X					X			

1130

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_081318-3

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Method: 1130

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Metals, EPA Method 6010B/7470A	Arsenic, EPA Method 6020B	OCPs, EPA Method 8081A	PCBs, EPA Method 8082A	Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B55-3	41				X							08/13/18	10:30					X	X					X			
2	B56-0.5	42				X							08/13/18	10:37	X	X	X			X					X			
3	B56-1.5	43				X							08/13/18	10:40					X	X					X			
4	B56-3	44				X							08/13/18	10:45					X	X					X			
5	B57-0.5	45				X							08/13/18	10:52	X	X	X			X					X			
6	B57-1.5	46				X							08/13/18	10:55					X	X					X			
7	B57-3	47				X							08/13/18	11:00					X	X					X			
8	B58-0.5	48				X							08/13/18	12:22	X	X	X			X					X			
9	B58-1.5	49				X							08/13/18	12:25						X					X			
10	B58-3	50				X							08/13/18	12:30						X					X			
11	B59-0.5	51				X							08/13/18	13:02	X	X	X			X					X			
12	B59-1.5	52				X							08/13/18	13:05						X					X			
13	B59-3	53				X							08/13/18	13:10						X					X			
14	B60-0.5	54				X							08/13/18	13:17	X	X	X			X					X			
15	B60-0.5 DUP	55				X							08/13/18	13:17	X	X	X			X					X			
16	B60-1.5	56				X							08/13/18	13:20						X					X			
17	B60-1.5 DUP	57				X							08/13/18	13:20						X					X			
18	B60-3	58				X							08/13/18	13:25						X					X			
19	B60-3 DUP	59				X							08/13/18	13:25						X					X			
20	B61-0.5	60				X							08/13/18	13:32	X	X	X			X					X			

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_081318-4

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B61-1.5	61				X							08/13/18	13;35					X	X					X			
2	B61-3	62				X							08/13/18	13:40					X	X					X			
3	B62-0.5	63				X							08/13/18	13:47	X	X	X			X					X			
4	B63-0.5	64				X							08/13/18	14:02	X	X	X			X					X			
5	B63-1.5	65				X							08/13/18	14:05					X	X					X			
6	B64-0.5	66				X							08/13/18	14:17	X	X	X			X					X			
7	B64-1.5	67				X							08/13/18	14:20					X	X					X			
8	B64-3	68				X							08/13/18	14:25					X	X					X			
9	B65-0.5	69				X							08/13/18	14:32	X	X	X			X					X			
10	B65-1.5	70				X							08/13/18	14:35					X	X					X			
11	B65-3	71				X							08/13/18	14:40					X	X					X			
12	B66-0.5	72				X							08/13/18	14:47	X	X	X			X					X			
13	B66-1.5	73				X							08/13/18	14:50					X	X					X			
14	B66-3	74				X							08/13/18	14:55					X	X					X			
15	B67-0.5	75				X							08/13/18	15:02	X	X	X			X					X			
16	B67-1.5	76				X							08/13/18	15:05					X	X					X			
17	B67-3	77				X							08/13/18	15:10					X	X					X			
18	EB-1	78			X								08/13/18	16:00	X	X	X	X							X			
19	TB-1	79			X								08/13/18						X						X			
20																												

1130

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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WORK ORDER NUMBER: 18-08-1130

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI Global

DATE: 08/14/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.3 °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: 1091

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1091
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 836

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑ ACD 8/14/18	☑	☐
☐ 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	☑ RJ 8/14/18	☑	☐
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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: 180806B)

Aqueous: ☐ VOA ☑ VOAh (-79) ☐ VOAna₂ ☐ 100PJ ☐ 100PJna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☑ 250PBn (pH<2) (-78) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB
☑ 1AGB (-78) ☐ 1AGBna₂ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ (-73) ☐ 8ozCGJ (-77) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: 1053

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WORK ORDER NUMBER: 18-08- 1730

SAMPLE ANOMALY REPORT

DATE: 08 / 14 / 2018

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)
- ☐ pH outside acceptable range (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

(-78) Received 1x 1 Liter unpreserved amber glass container for 8081A / 8082A

(-5) Labeled as B41-3 (Date/time matched)

(-78) Received 1x 1 Liter unpreserved amber glass container labeled as EB-3 (Date/time matched)

(-78) 1 of 2 250 mL plastic containers w/ HNO_3 labeled as EB-3 (Date/time matched)

(-20) Labeled as B43C-1.5 (Date/time matched)

Collection time per label
(-6) 7:50 (-38) 10:10
(-21) 9:15 (-40) 10:25

(-49), (-50), (-52), (-53), (-56) to (-59) NO analysis requested

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: 836

Reviewed by: 1053

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Thursday, August 16, 2018 11:17 AM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: 9836003557 - 18-08-1130 - Sample Receipt Confirmation & COC Document

EXTERNAL EMAIL*

Steve,

Use the following sample times:

B41A-3 DUP – 7:50
B43C-3 – 9:15
B54-3 – 10:15
B55-1.5 – 10:25

Please use "EB-3" as the sample name for the equipment blank. Please only analyze this sample for OCPs by 8081. Thanks!

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Thursday, August 16, 2018 10:57 AM
To: Salgado, Desi
Cc: Hoaibao Nguyen
Subject: 9836003557 - 18-08-1130 - Sample Receipt Confirmation & COC Document

Desi-
See page 13 of the attached.

Please verify samples times for the following as they differ between the COC and sample labels:
B41A-3 DUP
B43C-3
B54-3
B55-1.5

Sample EB-1 is labeled as EB-3, which should we use?
Also- this sample requests OCPs and PCBs to be analyzed but we only received a bottle for OCPs.
We can run for both OCPs and PCBs by EPA 608 if you like- or we can run for only OCPs by EPA 8081.

Let me know what you would like to do.

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Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-08-1130

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 09/18/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-08-1130

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4.1 EPA 6010B STLC ICP Metals (Aqueous). 6

5 Quality Control Sample Data. 7
5.1 MS/MSD. 7
5.2 LCS/LCSD. 8

6 Sample Analysis Summary. 9

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Work Order Narrative

Work Order: 18-08-1130 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/14/18. They were assigned to Work Order 18-08-1130.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-08-1130
		Project Name:	9836003557
		PO Number:	
		Date/Time Received:	08/14/18 18:30
		Number of Containers:	83
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B65-0.5	18-08-1130-69	08/13/18 14:32	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B65-0.5 (18-08-1130-69)						
Lead	0.492		0.100	mg/L	EPA 6010B	T22.11.5. AII

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
		Units:	mg/L
Project: 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B65-0.5	**18-08-1130-69-A**	**08/13/18 14:32**	**Solid**	**ICP 8300**	**09/11/18**	**09/15/18 01:46**	**180913LA1**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	0.492	0.100	1.00	

Method Blank	**097-05-006-9733**	**N/A**	**Aqueous**	**ICP 8300**	**09/11/18**	**09/13/18 16:53**	**180913LA1**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-09-0588-1	**Sample**	**Solid**	**ICP 8300**	**09/11/18**	**09/13/18 16:56**	**180913SA1**
18-09-0588-1	**Matrix Spike**	**Solid**	**ICP 8300**	**09/11/18**	**09/13/18 16:58**	**180913SA1**
18-09-0588-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**09/11/18**	**09/13/18 16:59**	**180913SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	ND	5.000	5.752	115	5.685	114	75-125	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-05-006-9733	**LCS**	**Aqueous**	**ICP 8300**	**09/11/18**	**09/13/18 16:55**	**180913LA1**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	5.000	5.095	102	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-08-1130

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	T22.11.5. AII	771	ICP 8300	1

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Glossary of Terms and Qualifiers

Work Order: 18-08-1130 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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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Monday, September 10, 2018 1:46 PM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

Steve,

Please run the following samples for lead STLC analysis:

B37C-0.5
B43-0.5
B65-0.5

Additionally, please run the following samples for lead by 6010B:

B37C-1.5
B37C-3

Please let me know if you have any questions. Thanks!

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, September 05, 2018 4:24 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0811

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_081318-1

18-08-1130

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B41A-0.5	1				X							08/13/18	7:42	X	X	X			X					X			
2	B41A-0.5 DUP	2				X							08/13/18	7:42	X	X	X			X					X			
3	B41A-1.5	3				X							08/13/18	7:45					X	X					X			
4	B41A-1.5 DUP	4				X							08/13/18	7:45					X	X					X			
5	B41A-3	5				X							08/13/18	7:50					X	X					X			
6	B41A-3 DUP	6				X							08/13/18	5:50					X	X					X			
7	B41B-0.5	7				X							08/13/18	7:57	X	X	X			X					X			
8	B41B-1.5	8				X							08/13/18	8:00					X	X					X			
9	B41B-3	9				X							08/13/18	8:05					X	X					X			
10	B41C-0.5	10				X							08/13/18	8:12	X	X	X			X					X			
11	B41C-1.5	11				X							08/13/18	8:15					X	X					X			
12	B41C-3	12				X							08/13/18	8:20					X	X					X			
13	B43A-0.5	13				X							08/13/18	8:52	X	X	X			X					X			
14	B43A-1.5	14				X							08/13/18	8:55					X	X					X			
15	B43A-3	15				X							08/13/18	9:00					X	X					X			
16	B43B-0.5	16				X							08/13/18	8:37	X	X	X			X					X			
17	B43B-1.5	17				X							08/13/18	8:40					X	X					X			
18	B43B-3	18				X							08/13/18	8:45					X	X					X			
19	B43C-0.5	19				X							08/13/18	9:07	X	X	X			X					X			
20	B43-1.5	20				X							08/13/18	9:10					X	X					X			

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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Engineering, Fire & Environmental Services

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Chain-of-Custody Record

EFI_081318-2

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method:	Method:	Method:	Method:	Method:	Method:	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B43C-3	21				X							08/13/18	9:07											X	X					X			
2	B50-0.5	22				X							08/13/18	9:17	X	X	X	X								X					X			
3	B50-1.5	23				X							08/13/18	9:20											X	X					X			
4	B50-3	24				X							08/13/18	9:25											X	X					X			
5	B51-0.5	25				X							08/13/18	9:32	X	X	X	X								X					X			
6	B51-0.5 DUP	26				X							08/13/18	9:32	X	X	X								X	X					X			
7	B51-1.5	27				X							08/13/18	9:35											X	X					X			
8	B51-1.5 DUP	28				X							08/13/18	9:35											X	X					X			
9	B51-3	29				X							08/13/18	9:40											X	X					X			
10	B51-3 DUP	30				X							08/13/18	9:40											X	X					X			
11	B52-0.5	31				X							08/13/18	9:47	X	X	X									X					X			
12	B52-1.5	32				X							08/13/18	9:50											X	X					X			
13	B52-3	33				X							08/13/18	9:55											X	X					X			
14	B53-0.5	34				X							08/13/18	9:57	X	X	X									X					X			
15	B53-1.5	35				X							08/13/18	10:00											X	X					X			
16	B54-0.5	36				X							08/13/18	10:07	X	X	X									X					X			
17	B54-1.5	37				X							08/13/18	10:10											X	X					X			
18	B54-3	38				X							08/13/18	10:15											X	X					X			
19	B55-0.5	39				X							08/13/18	10:22	X	X	X	X								X					X			
20	B55-1.5	40				X							08/13/18	10:30											X	X					X			

1130

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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Chain-of-Custody Record

EFI_081318-3

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Method: 1130

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Metals, EPA Method 6010B/7470A	Arsenic, EPA Method 6020B	OCPs, EPA Method 8081A	PCBs, EPA Method 8082A	Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B55-3	41				X							08/13/18	10:30					X	X					X			
2	B56-0.5	42				X							08/13/18	10:37	X	X	X			X					X			
3	B56-1.5	43				X							08/13/18	10:40					X	X					X			
4	B56-3	44				X							08/13/18	10:45					X	X					X			
5	B57-0.5	45				X							08/13/18	10:52	X	X	X			X					X			
6	B57-1.5	46				X							08/13/18	10:55					X	X					X			
7	B57-3	47				X							08/13/18	11:00					X	X					X			
8	B58-0.5	48				X							08/13/18	12:22	X	X	X			X					X			
9	B58-1.5	49				X							08/13/18	12:25						X					X			
10	B58-3	50				X							08/13/18	12:30						X					X			
11	B59-0.5	51				X							08/13/18	13:02	X	X	X			X					X			
12	B59-1.5	52				X							08/13/18	13:05						X					X			
13	B59-3	53				X							08/13/18	13:10						X					X			
14	B60-0.5	54				X							08/13/18	13:17	X	X	X			X					X			
15	B60-0.5 DUP	55				X							08/13/18	13:17	X	X	X			X					X			
16	B60-1.5	56				X							08/13/18	13:20						X					X			
17	B60-1.5 DUP	57				X							08/13/18	13:20						X					X			
18	B60-3	58				X							08/13/18	13:25						X					X			
19	B60-3 DUP	59				X							08/13/18	13:25						X					X			
20	B61-0.5	60				X							08/13/18	13:32	X	X	X			X					X			

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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Chain-of-Custody Record

EFI_081318-4

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B61-1.5	61				X							08/13/18	13;35					X	X					X			
2	B61-3	62				X							08/13/18	13:40					X	X					X			
3	B62-0.5	63				X							08/13/18	13:47	X	X	X			X					X			
4	B63-0.5	64				X							08/13/18	14:02	X	X	X			X					X			
5	B63-1.5	65				X							08/13/18	14:05					X	X					X			
6	B64-0.5	66				X							08/13/18	14:17	X	X	X			X					X			
7	B64-1.5	67				X							08/13/18	14:20					X	X					X			
8	B64-3	68				X							08/13/18	14:25					X	X					X			
9	B65-0.5	69				X							08/13/18	14:32	X	X	X			X					X			
10	B65-1.5	70				X							08/13/18	14:35					X	X					X			
11	B65-3	71				X							08/13/18	14:40					X	X					X			
12	B66-0.5	72				X							08/13/18	14:47	X	X	X			X					X			
13	B66-1.5	73				X							08/13/18	14:50					X	X					X			
14	B66-3	74				X							08/13/18	14:55					X	X					X			
15	B67-0.5	75				X							08/13/18	15:02	X	X	X			X					X			
16	B67-1.5	76				X							08/13/18	15:05					X	X					X			
17	B67-3	77				X							08/13/18	15:10					X	X					X			
18	EB-1	78			X								08/13/18	16:00	X	X	X	X							X			
19	TB-1	79			X								08/13/18						X						X			
20																												

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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WORK ORDER NUMBER: 18-08-1130

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI Global

DATE: 08/14/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.3 °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: 1091

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1091
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 836

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑ ACD 8/14/18	☑	☐
☐ 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	☑ RJ 8/14/18	☑	☐
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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: 180806B)

Aqueous: ☐ VOA ☑ VOAh (-79) ☐ VOAna₂ ☐ 100PJ ☐ 100PJna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☑ 250PBn (pH<2) (2) (-78) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB

☑ 1AGB (-78) ☐ 1AGBna₂ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☑ 8ozCGJ (-73) ☐ 16ozCGJ (-77) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: 1053

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WORK ORDER NUMBER: 18-08- 1130

SAMPLE ANOMALY REPORT

DATE: 08 / 14 / 2018

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)
- ☐ pH outside acceptable range (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

(-78) Received 1x 1 Liter unpreserved amber glass container for 8081A / 8082A

(-5) Labeled as B41-3 (Date/time matched)

(-78) Received 1x 1 Liter unpreserved amber glass container labeled as EB-3 (Date/time matched)

(-78) 1 of 2 250 mL plastic containers w/ HNO_3 labeled as EB-3 (Date/time matched)

(-20) Labeled as B43C-1.5 (Date/time matched)

Collection time per label
(-6) 7:50 (-38) 10:10
(-21) 9:15 (-40) 10:25

(-49), (-50), (-52), (-53), (-56) to (-59) NO analysis requested

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: 836

Reviewed by: 1053

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Thursday, August 16, 2018 11:17 AM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: 9836003557 - 18-08-1130 - Sample Receipt Confirmation & COC Document

EXTERNAL EMAIL*

Steve,

Use the following sample times:

B41A-3 DUP – 7:50
B43C-3 – 9:15
B54-3 – 10:15
B55-1.5 – 10:25

Please use "EB-3" as the sample name for the equipment blank. Please only analyze this sample for OCPs by 8081. Thanks!

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Thursday, August 16, 2018 10:57 AM
To: Salgado, Desi
Cc: Hoaibao Nguyen
Subject: 9836003557 - 18-08-1130 - Sample Receipt Confirmation & COC Document

Desi-
See page 13 of the attached.

Please verify samples times for the following as they differ between the COC and sample labels:
B41A-3 DUP
B43C-3
B54-3
B55-1.5

Sample EB-1 is labeled as EB-3, which should we use?
Also- this sample requests OCPs and PCBs to be analyzed but we only received a bottle for OCPs.
We can run for both OCPs and PCBs by EPA 608 if you like- or we can run for only OCPs by EPA 8081.

Let me know what you would like to do.

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Supplemental Report 2

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-08-1130

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 10/04/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-08-1130

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Work Order Narrative

Work Order: 18-08-1130 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/14/18. They were assigned to Work Order 18-08-1130.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-08-1130
		Project Name:	9836003557
		PO Number:	
		Date/Time Received:	08/14/18 18:30
		Number of Containers:	83
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B52-1.5	18-08-1130-32	08/13/18 09:50	1	Solid
B52-3	18-08-1130-33	08/13/18 09:55	1	Solid
B61-0.5	18-08-1130-60	08/13/18 13:32	1	Solid
B61-1.5	18-08-1130-61	08/13/18 13:35	1	Solid
B61-3	18-08-1130-62	08/13/18 13:40	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B52-1.5 (18-08-1130-32)						
Arsenic	10.9		0.758	mg/kg	EPA 6010B	EPA 3050B
Barium	212		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.684		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	3.20		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	22.4		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.77		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	29.8		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	1.80		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.48		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.7		0.253	mg/kg	EPA 6010B	EPA 3050B
Vanadium	31.1		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	55.2		1.01	mg/kg	EPA 6010B	EPA 3050B
B52-3 (18-08-1130-33)						
Arsenic	7.74		0.728	mg/kg	EPA 6010B	EPA 3050B
Barium	172		0.485	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.514		0.243	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.58		0.485	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.3		0.243	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.64		0.243	mg/kg	EPA 6010B	EPA 3050B
Copper	23.7		0.485	mg/kg	EPA 6010B	EPA 3050B
Lead	1.67		0.485	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.25		0.243	mg/kg	EPA 6010B	EPA 3050B
Nickel	31.2		0.243	mg/kg	EPA 6010B	EPA 3050B
Vanadium	24.6		0.243	mg/kg	EPA 6010B	EPA 3050B
Zinc	44.7		0.971	mg/kg	EPA 6010B	EPA 3050B

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* MDL is shown

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		Page 2 of 3

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B61-0.5 (18-08-1130-60)						
Barium	190		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.824		0.253	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.07		0.505	mg/kg	EPA 6010B	EPA 3050B
Chromium	35.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.83		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	38.2		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	87.6		0.505	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.87		0.253	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.1		0.253	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.08		0.758	mg/kg	EPA 6010B	EPA 3050B
Thallium	1.50		0.758	mg/kg	EPA 6010B	EPA 3050B
Vanadium	50.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	151		1.01	mg/kg	EPA 6010B	EPA 3050B
Lead	2.19		0.100	mg/L	EPA 6010B	T22.11.5. AII
B61-1.5 (18-08-1130-61)						
Arsenic	8.01		0.754	mg/kg	EPA 6010B	EPA 3050B
Barium	143		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.567		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.72		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	16.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.01		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	24.6		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	5.77		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.44		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.4		0.251	mg/kg	EPA 6010B	EPA 3050B
Vanadium	25.3		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	59.2		1.01	mg/kg	EPA 6010B	EPA 3050B

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* MDL is shown

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-08-1130
	5261 West Imperial Highway	Project Name:	9836003557
	Los Angeles, CA 90045-6231	Received:	08/14/18
Attn:	Desi Salgado		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B61-3 (18-08-1130-62)						
Arsenic	6.59		0.714	mg/kg	EPA 6010B	EPA 3050B
Barium	176		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.560		0.238	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.37		0.476	mg/kg	EPA 6010B	EPA 3050B
Chromium	14.7		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.14		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	23.5		0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	3.07		0.476	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.81		0.238	mg/kg	EPA 6010B	EPA 3050B
Nickel	23.5		0.238	mg/kg	EPA 6010B	EPA 3050B
Vanadium	22.9		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	41.6		0.952	mg/kg	EPA 6010B	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52-1.5	**18-08-1130-32-A**	**08/13/18 09:50**	**Solid**	**ICP 8300**	**09/28/18**	**10/02/18 19:37**	**180928L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	10.9	0.758	1.01	
Barium	212	0.505	1.01	
Beryllium	0.684	0.253	1.01	
Cadmium	3.20	0.505	1.01	
Chromium	22.4	0.253	1.01	
Cobalt	8.77	0.253	1.01	
Copper	29.8	0.505	1.01	
Lead	1.80	0.505	1.01	
Molybdenum	1.48	0.253	1.01	
Nickel	35.7	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	31.1	0.253	1.01	
Zinc	55.2	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52-3	**18-08-1130-33-A**	**08/13/18 09:55**	**Solid**	**ICP 8300**	**09/27/18**	**10/02/18 19:38**	**180928L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.728	0.971	
Arsenic	7.74	0.728	0.971	
Barium	172	0.485	0.971	
Beryllium	0.514	0.243	0.971	
Cadmium	2.58	0.485	0.971	
Chromium	18.3	0.243	0.971	
Cobalt	5.64	0.243	0.971	
Copper	23.7	0.485	0.971	
Lead	1.67	0.485	0.971	
Molybdenum	1.25	0.243	0.971	
Nickel	31.2	0.243	0.971	
Selenium	ND	0.728	0.971	
Silver	ND	0.243	0.971	
Thallium	ND	0.728	0.971	
Vanadium	24.6	0.243	0.971	
Zinc	44.7	0.971	0.971	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61-0.5	**18-08-1130-60-A**	**08/13/18 13:32**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 12:11**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Barium	190	0.505	1.01	
Beryllium	0.824	0.253	1.01	
Cadmium	2.07	0.505	1.01	
Chromium	35.5	0.253	1.01	
Cobalt	8.83	0.253	1.01	
Copper	38.2	0.505	1.01	
Lead	87.6	0.505	1.01	
Molybdenum	7.87	0.253	1.01	
Nickel	35.1	0.253	1.01	
Selenium	1.08	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	1.50	0.758	1.01	
Vanadium	50.5	0.253	1.01	
Zinc	151	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61-1.5	**18-08-1130-61-A**	**08/13/18 13:35**	**Solid**	**ICP 8300**	**09/27/18**	**10/02/18 19:40**	**180928L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	8.01	0.754	1.01	
Barium	143	0.503	1.01	
Beryllium	0.567	0.251	1.01	
Cadmium	1.72	0.503	1.01	
Chromium	16.5	0.251	1.01	
Cobalt	7.01	0.251	1.01	
Copper	24.6	0.503	1.01	
Lead	5.77	0.503	1.01	
Molybdenum	2.44	0.251	1.01	
Nickel	30.4	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	25.3	0.251	1.01	
Zinc	59.2	1.01	1.01	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 5 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61-3	**18-08-1130-62-A**	**08/13/18 13:40**	**Solid**	**ICP 8300**	**09/27/18**	**10/02/18 19:41**	**180928L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	6.59	0.714	0.952	
Barium	176	0.476	0.952	
Beryllium	0.560	0.238	0.952	
Cadmium	1.37	0.476	0.952	
Chromium	14.7	0.238	0.952	
Cobalt	7.14	0.238	0.952	
Copper	23.5	0.476	0.952	
Lead	3.07	0.476	0.952	
Molybdenum	1.81	0.238	0.952	
Nickel	23.5	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	22.9	0.238	0.952	
Zinc	41.6	0.952	0.952	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-26871**	**N/A**	**Solid**	**ICP 8300**	**08/21/18**	**08/29/18 13:06**	**180821L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Barium	ND	0.490	0.980	
Beryllium	ND	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	ND	0.245	0.980	
Cobalt	ND	0.245	0.980	
Copper	ND	0.490	0.980	
Lead	ND	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	ND	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	ND	0.245	0.980	
Zinc	ND	0.980	0.980	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: 9836003557			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27040**	**N/A**	**Solid**	**ICP 8300**	**09/28/18**	**10/02/18 16:25**	**180928L04**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	ND	0.739	0.985	
Barium	ND	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	ND	0.246	0.985	
Cobalt	ND	0.246	0.985	
Copper	ND	0.493	0.985	
Lead	ND	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	ND	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	ND	0.246	0.985	
Zinc	ND	0.985	0.985	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
		Units:	mg/L
Project: 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61-0.5	**18-08-1130-60-A**	**08/13/18 13:32**	**Solid**	**ICP 8300**	**09/25/18**	**09/28/18 15:08**	**180927LA2**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	2.19	0.100	1.00	

Method Blank	**097-05-006-9754**	**N/A**	**Aqueous**	**ICP 8300**	**09/25/18**	**10/01/18 15:26**	**180927LA2**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.100	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52-1.5	**18-08-1130-32-A**	**08/13/18 09:50**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 14:02**	**181001L02**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	BU,ET

B52-3	**18-08-1130-33-A**	**08/13/18 09:55**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 14:04**	**181001L02**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	BU,ET

B61-0.5	**18-08-1130-60-A**	**08/13/18 13:32**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 17:05**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

B61-1.5	**18-08-1130-61-A**	**08/13/18 13:35**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 14:07**	**181001L02**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	BU,ET

B61-3	**18-08-1130-62-A**	**08/13/18 13:40**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 14:13**	**181001L02**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	BU,ET

Method Blank	**099-16-272-4073**	**N/A**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:14**	**180821L04**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Method Blank	**099-16-272-4171**	**N/A**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 13:25**	**181001L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B50-0.5	**Sample**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:31**	**180821S01**
B50-0.5	**Matrix Spike**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:33**	**180821S01**
B50-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:34**	**180821S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.618	22	6.718	27	50-115	18	0-20	3
Barium	170.8	25.00	199.1	4X	209.4	4X	75-125	4X	0-20	Q
Beryllium	0.7208	25.00	25.78	100	26.43	103	75-125	2	0-20	
Cadmium	1.825	25.00	29.40	110	30.17	113	75-125	3	0-20	
Chromium	30.61	25.00	57.38	107	58.18	110	75-125	1	0-20	
Cobalt	9.240	25.00	34.52	101	35.63	106	75-125	3	0-20	
Copper	30.54	25.00	55.51	100	58.29	111	75-125	5	0-20	
Lead	12.89	25.00	40.19	109	41.50	114	75-125	3	0-20	
Molybdenum	3.784	25.00	26.56	91	28.00	97	75-125	5	0-20	
Nickel	32.95	25.00	60.14	109	61.72	115	75-125	3	0-20	
Selenium	ND	25.00	25.07	100	26.56	106	75-125	6	0-20	
Silver	ND	12.50	13.03	104	13.25	106	75-125	2	0-20	
Thallium	1.488	25.00	24.20	91	25.12	95	75-125	4	0-20	
Vanadium	45.41	25.00	73.11	111	73.84	114	75-125	1	0-20	
Zinc	86.97	25.00	111.2	97	116.9	120	75-125	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-09-1802-10	**Sample**	**Solid**	**ICP 8300**	**09/28/18**	**10/02/18 16:28**	**180928S04**
18-09-1802-10	**Matrix Spike**	**Solid**	**ICP 8300**	**09/28/18**	**10/03/18 14:11**	**180928S04**
18-09-1802-10	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**09/28/18**	**10/03/18 14:12**	**180928S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	2.770	11	3.657	15	50-115	28	0-20	3,4
Arsenic	10.69	25.00	33.21	90	32.50	87	75-125	2	0-20	
Barium	121.9	25.00	154.2	4X	139.5	4X	75-125	4X	0-20	Q
Beryllium	0.5096	25.00	26.33	103	26.18	103	75-125	1	0-20	
Cadmium	ND	25.00	29.39	118	28.98	116	75-125	1	0-20	
Chromium	16.00	25.00	44.81	115	44.30	113	75-125	1	0-20	
Cobalt	7.647	25.00	36.36	115	35.88	113	75-125	1	0-20	
Copper	20.68	25.00	48.11	110	46.41	103	75-125	4	0-20	
Lead	66.09	25.00	69.86	15	57.01	0	75-125	20	0-20	3
Molybdenum	ND	25.00	21.90	88	22.03	88	75-125	1	0-20	
Nickel	12.45	25.00	39.22	107	38.83	106	75-125	1	0-20	
Selenium	ND	25.00	20.91	84	21.60	86	75-125	3	0-20	
Silver	ND	12.50	9.157	73	10.13	81	75-125	10	0-20	3
Thallium	ND	25.00	24.73	99	18.22	73	75-125	30	0-20	3,4
Vanadium	27.45	25.00	50.89	94	49.81	89	75-125	2	0-20	
Zinc	48.80	25.00	79.34	122	75.85	108	75-125	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: 9836003557			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-09-1968-1	**Sample**	**Aqueous**	**ICP 8300**	**09/27/18**	**09/28/18 14:39**	**180927SA2**
18-09-1968-1	**Matrix Spike**	**Aqueous**	**ICP 8300**	**09/27/18**	**09/28/18 14:40**	**180927SA2**
18-09-1968-1	**Matrix Spike Duplicate**	**Aqueous**	**ICP 8300**	**09/27/18**	**09/28/18 14:44**	**180927SA2**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	ND	5.000	5.589	112	5.862	117	75-125	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B50-0.5	**Sample**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:19**	**180821S04**
B50-0.5	**Matrix Spike**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:21**	**180821S04**
B50-0.5	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:28**	**180821S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.09610	0.8350	0.9563	103	0.8895	95	71-137	7	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-09-2023-1	**Sample**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 13:32**	**181001S02**
18-09-2023-1	**Matrix Spike**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 13:34**	**181001S02**
18-09-2023-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 13:37**	**181001S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7070	85	0.6855	82	71-137	3	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-26871	**LCS**	**Solid**	**ICP 8300**	**08/21/18**	**08/27/18 11:26**	**180821L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	21.93	88	80-120	73-127	
Barium	25.00	25.69	103	80-120	73-127	
Beryllium	25.00	22.66	91	80-120	73-127	
Cadmium	25.00	23.88	96	80-120	73-127	
Chromium	25.00	24.11	96	80-120	73-127	
Cobalt	25.00	23.10	92	80-120	73-127	
Copper	25.00	23.66	95	80-120	73-127	
Lead	25.00	25.83	103	80-120	73-127	
Molybdenum	25.00	25.57	102	80-120	73-127	
Nickel	25.00	22.88	92	80-120	73-127	
Selenium	25.00	22.49	90	80-120	73-127	
Silver	12.50	11.75	94	80-120	73-127	
Thallium	25.00	22.74	91	80-120	73-127	
Vanadium	25.00	23.51	94	80-120	73-127	
Zinc	25.00	25.03	100	80-120	73-127	

Total number of LCS compounds: 15
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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: 9836003557			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-27040	**LCS**	**Solid**	**ICP 8300**	**09/28/18**	**10/02/18 16:27**	**180928L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	22.34	89	80-120	73-127	
Arsenic	25.00	21.83	87	80-120	73-127	
Barium	25.00	25.11	100	80-120	73-127	
Beryllium	25.00	24.26	97	80-120	73-127	
Cadmium	25.00	24.89	100	80-120	73-127	
Chromium	25.00	24.25	97	80-120	73-127	
Cobalt	25.00	24.14	97	80-120	73-127	
Copper	25.00	23.29	93	80-120	73-127	
Lead	25.00	25.85	103	80-120	73-127	
Molybdenum	25.00	24.64	99	80-120	73-127	
Nickel	25.00	24.27	97	80-120	73-127	
Selenium	25.00	21.66	87	80-120	73-127	
Silver	12.50	11.68	93	80-120	73-127	
Thallium	25.00	22.34	89	80-120	73-127	
Vanadium	25.00	23.40	94	80-120	73-127	
Zinc	25.00	25.07	100	80-120	73-127	

Total number of LCS compounds: 16
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

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: 9836003557			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-05-006-9754	**LCS**	**Aqueous**	**ICP 8300**	**09/25/18**	**10/01/18 15:28**	**180927LA2**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Lead	5.000	5.472	109	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4073	**LCS**	**Solid**	**Mercury 08**	**08/21/18**	**08/21/18 16:16**	**180821L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8858	106	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	08/14/18
5261 West Imperial Highway		Work Order:	18-08-1130
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: 9836003557			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-16-272-4171	**LCS**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 13:27**	**181001L02**
099-16-272-4171	**LCSD**	**Solid**	**Mercury 08**	**10/01/18**	**10/01/18 13:30**	**181001L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.8350	0.7705	92	0.7255	87	85-121	6	0-10	

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-08-1130

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	110	ICP 8300	1
EPA 6010B	T22.11.5. AII	110	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1

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Glossary of Terms and Qualifiers

Work Order: 18-08-1130 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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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Tuesday, September 25, 2018 10:58 AM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

B61-0.5 instead of BB1-0.5. Excuse the typo.

Yes, please run the samples. Thank you!

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, September 25, 2018 10:44 AM
To: Salgado, Desi
Cc: Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0811

Desi-
Please check this-
*Additionally, please run **BB1-0.5** for lead STLC*
We don't have a sample BB1-0.5.

Additionally-
OK to run the mercury (part of T22 metals) past the holding time (28 days)?

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Calscience

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Tuesday, September 25, 2018 10:14 AM
To: Stephen Nowak
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

Steve,

Please run samples B52-1.5, B52-3, B61-1.5, and B61-3 for Title 22 metals by 6010B/7471A. Additionally, please run BB1-0.5 for lead STLC analysis. Thanks.

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, September 12, 2018 9:34 AM
To: Salgado, Desi
Subject: RE: Taft Charter High School / ECI 18-07-0811

OK- will do.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Calscience

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Monday, September 10, 2018 1:46 PM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: Taft Charter High School / ECI 18-07-0811

EXTERNAL EMAIL*

Steve,

Please run the following samples for lead STLC analysis:

B37C-0.5
B43-0.5
B65-0.5

Additionally, please run the following samples for lead by 6010B:

B37C-1.5
B37C-3

Please let me know if you have any questions. Thanks!

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
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From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, September 05, 2018 4:24 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: Taft Charter High School / ECI 18-07-0811

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC

EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_081318-1

18-08-1130

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B41A-0.5	1				X							08/13/18	7:42	X	X	X			X					X			
2	B41A-0.5 DUP	2				X							08/13/18	7:42	X	X	X			X					X			
3	B41A-1.5	3				X							08/13/18	7:45					X	X					X			
4	B41A-1.5 DUP	4				X							08/13/18	7:45					X	X					X			
5	B41A-3	5				X							08/13/18	7:50					X	X					X			
6	B41A-3 DUP	6				X							08/13/18	5:50					X	X					X			
7	B41B-0.5	7				X							08/13/18	7:57	X	X	X			X					X			
8	B41B-1.5	8				X							08/13/18	8:00					X	X					X			
9	B41B-3	9				X							08/13/18	8:05					X	X					X			
10	B41C-0.5	10				X							08/13/18	8:12	X	X	X			X					X			
11	B41C-1.5	11				X							08/13/18	8:15					X	X					X			
12	B41C-3	12				X							08/13/18	8:20					X	X					X			
13	B43A-0.5	13				X							08/13/18	8:52	X	X	X			X					X			
14	B43A-1.5	14				X							08/13/18	8:55					X	X					X			
15	B43A-3	15				X							08/13/18	9:00					X	X					X			
16	B43B-0.5	16				X							08/13/18	8:37	X	X	X			X					X			
17	B43B-1.5	17				X							08/13/18	8:40					X	X					X			
18	B43B-3	18				X							08/13/18	8:45					X	X					X			
19	B43C-0.5	19				X							08/13/18	9:07	X	X	X			X					X			
20	B43-1.5	20				X							08/13/18	9:10					X	X					X			

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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Chain-of-Custody Record

EFI_081318-2

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method:	Method:	Method:	Method:	Method:	Method:	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B43C-3	21				X							08/13/18	9:07											X	X					X			
2	B50-0.5	22				X							08/13/18	9:17	X	X	X	X								X					X			
3	B50-1.5	23				X							08/13/18	9:20											X	X					X			
4	B50-3	24				X							08/13/18	9:25											X	X					X			
5	B51-0.5	25				X							08/13/18	9:32	X	X	X	X								X					X			
6	B51-0.5 DUP	26				X							08/13/18	9:32	X	X	X								X	X					X			
7	B51-1.5	27				X							08/13/18	9:35											X	X					X			
8	B51-1.5 DUP	28				X							08/13/18	9:35											X	X					X			
9	B51-3	29				X							08/13/18	9:40											X	X					X			
10	B51-3 DUP	30				X							08/13/18	9:40											X	X					X			
11	B52-0.5	31				X							08/13/18	9:47	X	X	X									X					X			
12	B52-1.5	32				X							08/13/18	9:50											X	X					X			
13	B52-3	33				X							08/13/18	9:55											X	X					X			
14	B53-0.5	34				X							08/13/18	9:57	X	X	X									X					X			
15	B53-1.5	35				X							08/13/18	10:00											X	X					X			
16	B54-0.5	36				X							08/13/18	10:07	X	X	X									X					X			
17	B54-1.5	37				X							08/13/18	10:10											X	X					X			
18	B54-3	38				X							08/13/18	10:15											X	X					X			
19	B55-0.5	39				X							08/13/18	10:22	X	X	X	X								X					X			
20	B55-1.5	40				X							08/13/18	10:30											X	X					X			

1130

Relinquished by	Date	Time	Received by	Date	Time	Remarks
	8/14/18	1500		8/14/18	1500	Sample condition (circle): Chilled Intact
	8/14/18	1830		8/14/18	1830	

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Chain-of-Custody Record

EFI_081318-3

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method 1130: Metals, EPA Method 6010B/7470A	Arsenic, EPA Method 6020B	OCPs, EPA Method 8081A	PCBs, EPA Method 8082A	Hold	Container: 4- or 8-ounce Glass	Plastic Bag	VOAs (by EPA 5035)	Summa Cannister	Tedlar Bag	Turnaround Time: Normal / Standard	72 Hour	48 Hours	24 Hours
1	B55-3	41				X							08/13/18	10:30					X	X					X			
2	B56-0.5	42				X							08/13/18	10:37	X	X	X			X					X			
3	B56-1.5	43				X							08/13/18	10:40					X	X					X			
4	B56-3	44				X							08/13/18	10:45					X	X					X			
5	B57-0.5	45				X							08/13/18	10:52	X	X	X			X					X			
6	B57-1.5	46				X							08/13/18	10:55					X	X					X			
7	B57-3	47				X							08/13/18	11:00					X	X					X			
8	B58-0.5	48				X							08/13/18	12:22	X	X	X			X					X			
9	B58-1.5	49				X							08/13/18	12:25						X					X			
10	B58-3	50				X							08/13/18	12:30						X					X			
11	B59-0.5	51				X							08/13/18	13:02	X	X	X			X					X			
12	B59-1.5	52				X							08/13/18	13:05						X					X			
13	B59-3	53				X							08/13/18	13:10						X					X			
14	B60-0.5	54				X							08/13/18	13:17	X	X	X			X					X			
15	B60-0.5 DUP	55				X							08/13/18	13:17	X	X	X			X					X			
16	B60-1.5	56				X							08/13/18	13:20						X					X			
17	B60-1.5 DUP	57				X							08/13/18	13:20						X					X			
18	B60-3	58				X							08/13/18	13:25						X					X			
19	B60-3 DUP	59				X							08/13/18	13:25						X					X			
20	B61-0.5	60				X							08/13/18	13:32	X	X	X			X					X			

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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Chain-of-Custody Record

EFI_081318-4

Analytical Laboratory: Eurofins Calscience		Lab Contact: Nowak	
Project Number:	9836003557	Quote No: 965158	
Project Address:	5461 Winnetka Avenue, Los Angeles, CA 91364		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: Metals, EPA Method 6010B/7470A	Method: Arsenic, EPA Method 6020B	Method: OCPs, EPA Method 8081A	Method: PCBs, EPA Method 8082A	Method: 1130	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B61-1.5	61				X							08/13/18	13;35						X	X					X			
2	B61-3	62				X							08/13/18	13:40						X	X					X			
3	B62-0.5	63				X							08/13/18	13:47	X	X	X				X					X			
4	B63-0.5	64				X							08/13/18	14:02	X	X	X				X					X			
5	B63-1.5	65				X							08/13/18	14:05						X	X					X			
6	B64-0.5	66				X							08/13/18	14:17	X	X	X				X					X			
7	B64-1.5	67				X							08/13/18	14:20						X	X					X			
8	B64-3	68				X							08/13/18	14:25						X	X					X			
9	B65-0.5	69				X							08/13/18	14:32	X	X	X				X					X			
10	B65-1.5	~~69~~ 70				X							08/13/18	14:35						X	X					X			
11	B65-3	71				X							08/13/18	14:40						X	X					X			
12	B66-0.5	72				X							08/13/18	14:47	X	X	X				X					X			
13	B66-1.5	73				X							08/13/18	14:50						X	X					X			
14	B66-3	74				X							08/13/18	14:55						X	X					X			
15	B67-0.5	75				X							08/13/18	15:02	X	X	X				X					X			
16	B67-1.5	76				X							08/13/18	15:05						X	X					X			
17	B67-3	77				X							08/13/18	15:10						X	X					X			
18	EB-1	78			X								08/13/18	16:00	X	X	X	X								X			
19	TB-1	79			X								08/13/18							X						X			
20																													

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	8/14/18	1500	[signature]	8/14/18	1500	Sample condition (circle): Chilled Intact
[signature]	8/14/18	1830	[signature]	8/14/18	1830	

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WORK ORDER NUMBER: 18-08-1130

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI Global

DATE: 08/14/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 2.8 °C (w/ CF): 2.3 °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: 1091

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1091
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 836

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete (ACD 8/14/18)	☑	☑	☐
☐ 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 (RJ 8/14/18)	☑	☑	☐
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			
Acid/base preserved samples - pH within acceptable range	☑	☐	☐
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: 180806B)

Aqueous: ☐ VOA ☑ VOAh (-79) ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☑ 250PB**n** (pH<2) (2) (-78) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☑ 1AGB (-78) ☐ 1AGB**na₂** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☑ 8ozCGJ (-73) ☐ 16ozCGJ (-77) ☐ 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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: 1053

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WORK ORDER NUMBER: 18-08- 1130

SAMPLE ANOMALY REPORT

DATE: 08 / 14 / 2018

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)
- ☐ pH outside acceptable range (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

(-78) Received 1x 1 Liter unpreserved amber glass container for 8081A / 8082A

(-5) Labeled as B41-3 (Date/time matched)

(-78) Received 1x 1 Liter unpreserved amber glass container labeled as EB-3 (Date/time matched)

(-78) 1 of 2 250 mL plastic containers w/ HNO_3 labeled as EB-3 (Date/time matched)

(-20) Labeled as B43C-1.5 (Date/time matched)

Collection time per label
(-6) 7:50 (-38) 10:10
(-21) 9:15 (-40) 10:25

(-49), (-50), (-52), (-53), (-56) to (-59) NO analysis requested

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: 836

Reviewed by: 1053

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Thursday, August 16, 2018 11:17 AM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: 9836003557 - 18-08-1130 - Sample Receipt Confirmation & COC Document

EXTERNAL EMAIL*

Steve,

Use the following sample times:

B41A-3 DUP – 7:50
B43C-3 – 9:15
B54-3 – 10:15
B55-1.5 – 10:25

Please use "EB-3" as the sample name for the equipment blank. Please only analyze this sample for OCPs by 8081. Thanks!

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Thursday, August 16, 2018 10:57 AM
To: Salgado, Desi
Cc: Hoaibao Nguyen
Subject: 9836003557 - 18-08-1130 - Sample Receipt Confirmation & COC Document

Desi-
See page 13 of the attached.

Please verify samples times for the following as they differ between the COC and sample labels:
B41A-3 DUP
B43C-3
B54-3
B55-1.5

Sample EB-1 is labeled as EB-3, which should we use?
Also- this sample requests OCPs and PCBs to be analyzed but we only received a bottle for OCPs.
We can run for both OCPs and PCBs by EPA 608 if you like- or we can run for only OCPs by EPA 8081.

Let me know what you would like to do.

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WORK ORDER NUMBER: 18-11-1814

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: LAUSD Taft HS / 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 12/04/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Narrative

Work Order: 18-11-1814 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/21/18. They were assigned to Work Order 18-11-1814.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-11-1814
		Project Name:	LAUSD Taft HS / 9836003557
		PO Number:	
		Date/Time Received:	11/21/18 17:10
		Number of Containers:	101
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B68-0.5	18-11-1814-1	11/19/18 12:40	1	Solid
B68-2	18-11-1814-2	11/19/18 12:45	1	Solid
B69-0.5	18-11-1814-3	11/19/18 12:50	1	Solid
B69-2	18-11-1814-4	11/19/18 12:55	1	Solid
B70-0.5	18-11-1814-5	11/20/18 09:00	1	Solid
B70-2	18-11-1814-6	11/20/18 09:05	1	Solid
B71-0.5	18-11-1814-7	11/20/18 09:10	1	Solid
B71-2	18-11-1814-8	11/20/18 09:15	1	Solid
B72-0.5	18-11-1814-9	11/20/18 09:20	1	Solid
B72-2	18-11-1814-10	11/20/18 09:25	1	Solid
B73-0.5	18-11-1814-11	11/19/18 12:40	1	Solid
B73-2	18-11-1814-12	11/19/18 12:45	1	Solid
B74-0.5	18-11-1814-13	11/19/18 13:00	1	Solid
B74-2	18-11-1814-14	11/19/18 13:05	1	Solid
B75-0.5	18-11-1814-15	11/19/18 13:30	1	Solid
B75-2	18-11-1814-16	11/19/18 13:35	1	Solid
B76-0.5	18-11-1814-17	11/20/18 09:40	1	Solid
B76-2	18-11-1814-18	11/20/18 09:45	1	Solid
B77-0.5	18-11-1814-19	11/20/18 09:30	1	Solid
B77-2	18-11-1814-20	11/20/18 09:35	1	Solid
B78-0.5	18-11-1814-21	11/19/18 12:30	1	Solid
B78-2	18-11-1814-22	11/19/18 12:35	1	Solid
B79-0.5	18-11-1814-23	11/19/18 13:10	1	Solid
B79-2	18-11-1814-24	11/19/18 13:15	1	Solid
B80-0.5	18-11-1814-25	11/19/18 13:20	1	Solid
B80-2	18-11-1814-26	11/19/18 13:25	1	Solid
B81-0.5	18-11-1814-27	11/20/18 09:50	1	Solid
B81-2	18-11-1814-28	11/20/18 09:55	1	Solid
B82-0.5	18-11-1814-29	11/20/18 10:00	1	Solid
B82-2	18-11-1814-30	11/20/18 10:05	1	Solid
B83-0.5	18-11-1814-31	11/19/18 10:15	1	Solid
B83-1.5	18-11-1814-32	11/19/18 10:20	1	Solid
B83-3	18-11-1814-33	11/19/18 10:25	1	Solid
B84-0.5	18-11-1814-34	11/19/18 10:00	1	Solid
B84-1.5	18-11-1814-35	11/19/18 10:05	1	Solid
B84-3	18-11-1814-36	11/19/18 10:10	1	Solid
B85-0.5	18-11-1814-37	11/19/18 09:45	1	Solid
B85-1.5	18-11-1814-38	11/19/18 09:50	1	Solid
B85-3	18-11-1814-39	11/19/18 09:55	1	Solid
B86-0.5	18-11-1814-40	11/19/18 09:30	1	Solid
B86-1.5	18-11-1814-41	11/19/18 09:35	1	Solid
B86-3	18-11-1814-42	11/19/18 09:40	1	Solid

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-11-1814
		Project Name:	LAUSD Taft HS / 9836003557
		PO Number:	
		Date/Time Received:	11/21/18 17:10
		Number of Containers:	101
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B87-0.5	18-11-1814-43	11/19/18 09:15	1	Solid
B87-1.5	18-11-1814-44	11/19/18 09:17	1	Solid
B87-3	18-11-1814-45	11/19/18 09:19	1	Solid
B88-0.5	18-11-1814-46	11/19/18 08:50	1	Solid
B88-1.5	18-11-1814-47	11/19/18 08:52	1	Solid
B88-3	18-11-1814-48	11/19/18 08:54	1	Solid
B89-0.5	18-11-1814-49	11/19/18 08:50	1	Solid
B89-1.5	18-11-1814-50	11/19/18 08:52	1	Solid
B89-3	18-11-1814-51	11/19/18 08:54	1	Solid
B90-0.5	18-11-1814-52	11/19/18 10:30	1	Solid
B90-1.5	18-11-1814-53	11/19/18 10:35	1	Solid
B90-3	18-11-1814-54	11/19/18 10:40	1	Solid
B91-0.5	18-11-1814-55	11/19/18 10:45	1	Solid
B91-1.5	18-11-1814-56	11/19/18 10:50	1	Solid
B91-3	18-11-1814-57	11/19/18 10:55	1	Solid
B92-0.5	18-11-1814-58	11/19/18 11:00	1	Solid
B92-1.5	18-11-1814-59	11/19/18 11:05	1	Solid
B92-3	18-11-1814-60	11/19/18 11:10	1	Solid
B93-0.5	18-11-1814-61	11/19/18 11:15	1	Solid
B93-1.5	18-11-1814-62	11/19/18 11:20	1	Solid
B93-3	18-11-1814-63	11/19/18 11:25	1	Solid
B94-0.5	18-11-1814-64	11/19/18 11:30	1	Solid
B94-1.5	18-11-1814-65	11/19/18 11:35	1	Solid
B94-3	18-11-1814-66	11/19/18 11:40	1	Solid
B95-0.5	18-11-1814-67	11/21/18 10:25	1	Solid
B95-1.5	18-11-1814-68	11/21/18 10:30	1	Solid
B95-3	18-11-1814-69	11/21/18 10:35	1	Solid
B95-6	18-11-1814-70	11/21/18 10:40	1	Solid
B96-0.5	18-11-1814-71	11/21/18 10:25	1	Solid
B96-1.5	18-11-1814-72	11/21/18 10:30	1	Solid
B96-3	18-11-1814-73	11/21/18 10:35	1	Solid
B96-6	18-11-1814-74	11/21/18 10:40	1	Solid
B61A-0.5	18-11-1814-75	11/20/18 10:40	1	Solid
B61A-1.5	18-11-1814-76	11/20/18 10:45	1	Solid
B61A-3	18-11-1814-77	11/20/18 10:50	1	Solid
B61B-0.5	18-11-1814-78	11/20/18 10:55	1	Solid
B61B-1.5	18-11-1814-79	11/20/18 11:00	1	Solid
B61B-3	18-11-1814-80	11/20/18 11:05	1	Solid
B61C-0.5	18-11-1814-81	11/20/18 11:10	1	Solid
B61C-1.5	18-11-1814-82	11/20/18 11:15	1	Solid
B61C-3	18-11-1814-83	11/20/18 11:20	1	Solid
B52A-0.5	18-11-1814-84	11/21/18 09:00	1	Solid

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-11-1814
		Project Name:	LAUSD Taft HS / 9836003557
		PO Number:	
		Date/Time Received:	11/21/18 17:10
		Number of Containers:	101
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B52A-1.5	18-11-1814-85	11/21/18 09:05	1	Solid
B52A-3	18-11-1814-86	11/21/18 09:10	1	Solid
B52B-0.5	18-11-1814-87	11/21/18 09:15	1	Solid
B52B-1.5	18-11-1814-88	11/21/18 09:20	1	Solid
B52B-3	18-11-1814-89	11/21/18 09:25	1	Solid
B52C-0.5	18-11-1814-90	11/21/18 09:30	1	Solid
B52C-1.5	18-11-1814-91	11/21/18 09:35	1	Solid
B52C-3	18-11-1814-92	11/21/18 09:40	1	Solid
B52B-1.5 DUP	18-11-1814-93	11/21/18 09:20	1	Solid
B61B-0.5 DUP	18-11-1814-94	11/20/18 10:55	1	Solid
B73-0.5 DUP	18-11-1814-95	11/19/18 12:40	1	Solid
B77-2 DUP	18-11-1814-96	11/20/18 09:35	1	Solid
B80-0.5 DUP	18-11-1814-97	11/19/18 13:20	1	Solid
B83-1.5 DUP	18-11-1814-98	11/19/18 10:20	1	Solid
B86-0.5 DUP	18-11-1814-99	11/19/18 09:30	1	Solid
B96-1.5 DUP	18-11-1814-100	11/21/18 10:30	1	Solid
B92-3_DUP	18-11-1814-101	11/19/18 11:10	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-11-1814
	5261 West Imperial Highway	Project Name:	LAUSD Taft HS / 9836003557
	Los Angeles, CA 90045-6231	Received:	11/21/18
Attn:	Desi Salgado		Page 1 of 4

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B68-0.5 (18-11-1814-1)						
Lead	30.5		0.508	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.22		1.00	mg/kg	EPA 6020	EPA 3050B
B69-0.5 (18-11-1814-3)						
Lead	21.5		0.488	mg/kg	EPA 6010B	EPA 3050B
Arsenic	9.17		1.00	mg/kg	EPA 6020	EPA 3050B
B70-0.5 (18-11-1814-5)						
Lead	21.8		0.476	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.62		1.00	mg/kg	EPA 6020	EPA 3050B
B71-0.5 (18-11-1814-7)						
Lead	4.92		0.524	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.92		1.00	mg/kg	EPA 6020	EPA 3050B
B72-0.5 (18-11-1814-9)						
Lead	10.9		0.510	mg/kg	EPA 6010B	EPA 3050B
Arsenic	10.4		1.00	mg/kg	EPA 6020	EPA 3050B
B73-0.5 (18-11-1814-11)						
Lead	6.28		0.510	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.15		1.00	mg/kg	EPA 6020	EPA 3050B
B74-0.5 (18-11-1814-13)						
Lead	7.71		0.515	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.54		1.00	mg/kg	EPA 6020	EPA 3050B
B75-0.5 (18-11-1814-15)						
Lead	16.2		0.508	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.23		1.00	mg/kg	EPA 6020	EPA 3050B
B76-0.5 (18-11-1814-17)						
Lead	6.63		0.508	mg/kg	EPA 6010B	EPA 3050B
Arsenic	3.17		1.00	mg/kg	EPA 6020	EPA 3050B
B77-0.5 (18-11-1814-19)						
Lead	16.9		0.505	mg/kg	EPA 6010B	EPA 3050B
Arsenic	3.27		1.00	mg/kg	EPA 6020	EPA 3050B
B78-0.5 (18-11-1814-21)						
Lead	5.38		0.505	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.44		1.00	mg/kg	EPA 6020	EPA 3050B
B79-0.5 (18-11-1814-23)						
Lead	15.4		0.483	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.94		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	7.0		5.0	ug/kg	EPA 8081A	EPA 3545

* MDL is shown

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Detections Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order: Project Name: Received:	18-11-1814 LAUSD Taft HS / 9836003557 11/21/18
Attn:	Desi Salgado		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B80-0.5 (18-11-1814-25)						
Lead	6.63		0.515	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.50		1.00	mg/kg	EPA 6020	EPA 3050B
B81-0.5 (18-11-1814-27)						
Lead	3.34		0.503	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.09		1.00	mg/kg	EPA 6020	EPA 3050B
B82-0.5 (18-11-1814-29)						
Lead	7.42		0.500	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.76		1.00	mg/kg	EPA 6020	EPA 3050B
B83-0.5 (18-11-1814-31)						
Lead	17.3		0.488	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.42		1.00	mg/kg	EPA 6020	EPA 3050B
B84-0.5 (18-11-1814-34)						
Lead	18.2		0.500	mg/kg	EPA 6010B	EPA 3050B
Arsenic	4.62		1.00	mg/kg	EPA 6020	EPA 3050B
B85-0.5 (18-11-1814-37)						
Lead	24.0		0.505	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.06		1.00	mg/kg	EPA 6020	EPA 3050B
B86-0.5 (18-11-1814-40)						
Lead	16.9		0.476	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.91		1.00	mg/kg	EPA 6020	EPA 3050B
B87-0.5 (18-11-1814-43)						
Lead	23.1		0.483	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.24		1.00	mg/kg	EPA 6020	EPA 3050B
B88-0.5 (18-11-1814-46)						
Lead	15.9		0.508	mg/kg	EPA 6010B	EPA 3050B
Arsenic	2.68		1.00	mg/kg	EPA 6020	EPA 3050B
B89-0.5 (18-11-1814-49)						
Lead	14.5		0.478	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.72		1.00	mg/kg	EPA 6020	EPA 3050B
B90-0.5 (18-11-1814-52)						
Lead	16.3		0.493	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.49		1.00	mg/kg	EPA 6020	EPA 3050B
B91-0.5 (18-11-1814-55)						
Lead	13.0		0.481	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.85		1.00	mg/kg	EPA 6020	EPA 3050B
B92-0.5 (18-11-1814-58)						
Lead	16.3		0.481	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.28		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-11-1814
	5261 West Imperial Highway	Project Name:	LAUSD Taft HS / 9836003557
	Los Angeles, CA 90045-6231	Received:	11/21/18
Attn:	Desi Salgado		Page 3 of 4

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B93-0.5 (18-11-1814-61)						
Lead	16.2		0.508	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.75		1.00	mg/kg	EPA 6020	EPA 3050B
B94-0.5 (18-11-1814-64)						
Lead	10.8		0.493	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.58		1.00	mg/kg	EPA 6020	EPA 3050B
B95-0.5 (18-11-1814-67)						
Lead	5.13		0.498	mg/kg	EPA 6010B	EPA 3050B
Arsenic	3.83		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	7.9		5.0	ug/kg	EPA 8081A	EPA 3545
B96-0.5 (18-11-1814-71)						
Lead	4.48		0.513	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.97		1.00	mg/kg	EPA 6020	EPA 3050B
B61A-0.5 (18-11-1814-75)						
Lead	46.7		0.513	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.64		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	390		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	91		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	89		50	ug/kg	EPA 8081A	EPA 3545
Dieldrin	7.6		5.0	ug/kg	EPA 8081A	EPA 3545
B61B-0.5 (18-11-1814-78)						
Lead	13.5		0.515	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.03		1.00	mg/kg	EPA 6020	EPA 3050B
4,4'-DDE	12		4.9	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	10		4.9	ug/kg	EPA 8081A	EPA 3545
B61C-0.5 (18-11-1814-81)						
Lead	45.4		0.481	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.86		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	200		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDD	15		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	46		25	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	57		25	ug/kg	EPA 8081A	EPA 3545
B52A-0.5 (18-11-1814-84)						
Lead	2.25		0.515	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.49		1.00	mg/kg	EPA 6020	EPA 3050B

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-11-1814
	5261 West Imperial Highway	Project Name:	LAUSD Taft HS / 9836003557
	Los Angeles, CA 90045-6231	Received:	11/21/18
Attn:	Desi Salgado		Page 4 of 4

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B52B-0.5 (18-11-1814-87)						
Lead	13.6		0.505	mg/kg	EPA 6010B	EPA 3050B
Arsenic	7.78		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	75		49	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	20		4.9	ug/kg	EPA 8081A	EPA 3545
B52C-0.5 (18-11-1814-90)						
Lead	7.56		0.488	mg/kg	EPA 6010B	EPA 3050B
Arsenic	12.4		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	64		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	12		5.0	ug/kg	EPA 8081A	EPA 3545
B61B-0.5 DUP (18-11-1814-94)						
Lead	24.4		0.503	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.46		1.00	mg/kg	EPA 6020	EPA 3050B
Chlordane	65		50	ug/kg	EPA 8081A	EPA 3545
4,4'-DDE	19		5.0	ug/kg	EPA 8081A	EPA 3545
4,4'-DDT	35		5.0	ug/kg	EPA 8081A	EPA 3545
B73-0.5 DUP (18-11-1814-95)						
Lead	5.56		0.500	mg/kg	EPA 6010B	EPA 3050B
Arsenic	5.53		1.00	mg/kg	EPA 6020	EPA 3050B
B80-0.5 DUP (18-11-1814-97)						
Lead	7.60		0.498	mg/kg	EPA 6010B	EPA 3050B
Arsenic	8.33		1.00	mg/kg	EPA 6020	EPA 3050B
B86-0.5 DUP (18-11-1814-99)						
Lead	14.7		0.500	mg/kg	EPA 6010B	EPA 3050B
Arsenic	6.40		1.00	mg/kg	EPA 6020	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B68-0.5	**18-11-1814-1-A**	**11/19/18 12:40**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 21:57**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	30.5	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B69-0.5	**18-11-1814-3-A**	**11/19/18 12:50**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:00**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	21.5	0.488	0.976	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B70-0.5	**18-11-1814-5-A**	**11/20/18 09:00**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:01**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	21.8	0.476	0.952	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B71-0.5	**18-11-1814-7-A**	**11/20/18 09:10**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:02**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	4.92	0.524	1.05	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B72-0.5	**18-11-1814-9-A**	**11/20/18 09:20**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:03**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	10.9	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B73-0.5	**18-11-1814-11-A**	**11/19/18 12:40**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:06**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	6.28	0.510	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B74-0.5	**18-11-1814-13-A**	**11/19/18 13:00**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:08**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	7.71	0.515	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B75-0.5	**18-11-1814-15-A**	**11/19/18 13:30**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:09**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	16.2	0.508	1.02	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B76-0.5	**18-11-1814-17-A**	**11/20/18 09:40**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:10**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	6.63	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B77-0.5	**18-11-1814-19-A**	**11/20/18 09:30**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:11**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	16.9	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B78-0.5	**18-11-1814-21-A**	**11/19/18 12:30**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:12**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	5.38	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B79-0.5	**18-11-1814-23-A**	**11/19/18 13:10**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:12**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	15.4	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B80-0.5	**18-11-1814-25-A**	**11/19/18 13:20**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:13**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	6.63	0.515	1.03	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B81-0.5	**18-11-1814-27-A**	**11/20/18 09:50**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:14**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	3.34	0.503	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B82-0.5	**18-11-1814-29-A**	**11/20/18 10:00**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:15**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	7.42	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B83-0.5	**18-11-1814-31-A**	**11/19/18 10:15**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:19**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	17.3	0.488	0.976	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B84-0.5	**18-11-1814-34-A**	**11/19/18 10:00**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:20**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	18.2	0.500	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B85-0.5	**18-11-1814-37-A**	**11/19/18 09:45**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:21**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	24.0	0.505	1.01	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B86-0.5	**18-11-1814-40-A**	**11/19/18 09:30**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:22**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	16.9	0.476	0.952	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B87-0.5	**18-11-1814-43-A**	**11/19/18 09:15**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:23**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	23.1	0.483	0.966	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B88-0.5	**18-11-1814-46-A**	**11/19/18 08:50**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:28**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	15.9	0.508	1.02	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B89-0.5	**18-11-1814-49-A**	**11/19/18 08:50**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:34**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	14.5	0.478	0.957	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B90-0.5	**18-11-1814-52-A**	**11/19/18 10:30**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:35**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	16.3	0.493	0.985	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B91-0.5	**18-11-1814-55-A**	**11/19/18 10:45**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:36**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	13.0	0.481	0.962	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B92-0.5	**18-11-1814-58-A**	**11/19/18 11:00**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:37**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	16.3	0.481	0.962	

B93-0.5	**18-11-1814-61-A**	**11/19/18 11:15**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:38**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	16.2	0.508	1.02	

B94-0.5	**18-11-1814-64-A**	**11/19/18 11:30**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:39**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	10.8	0.493	0.985	

B95-0.5	**18-11-1814-67-A**	**11/21/18 10:25**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:40**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	5.13	0.498	0.995	

B96-0.5	**18-11-1814-71-A**	**11/21/18 10:25**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:41**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	4.48	0.513	1.03	

B61A-0.5	**18-11-1814-75-A**	**11/20/18 10:40**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:42**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	46.7	0.513	1.03	

B61B-0.5	**18-11-1814-78-A**	**11/20/18 10:55**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:45**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	13.5	0.515	1.03	

B61C-0.5	**18-11-1814-81-A**	**11/20/18 11:10**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:47**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	45.4	0.481	0.962	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52A-0.5	**18-11-1814-84-A**	**11/21/18 09:00**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:47**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	2.25	0.515	1.03	

B52B-0.5	**18-11-1814-87-A**	**11/21/18 09:15**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:48**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	13.6	0.505	1.01	

B52C-0.5	**18-11-1814-90-A**	**11/21/18 09:30**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:49**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	7.56	0.488	0.976	

B61B-0.5 DUP	**18-11-1814-94-A**	**11/20/18 10:55**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:51**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	24.4	0.503	1.01	

B73-0.5 DUP	**18-11-1814-95-A**	**11/19/18 12:40**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:52**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	5.56	0.500	1.00	

B80-0.5 DUP	**18-11-1814-97-A**	**11/19/18 13:20**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:53**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	7.60	0.498	0.995	

B86-0.5 DUP	**18-11-1814-99-A**	**11/19/18 09:30**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:54**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	14.7	0.500	1.00	

Method Blank	**097-01-002-27327**	**N/A**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 21:53**	**181127L02A**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.483	0.966	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27328**	**N/A**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:24**	**181127L03A**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.490	0.980	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B68-0.5	**18-11-1814-1-A**	**11/19/18 12:40**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:51**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.22	1.00	1.00	

B69-0.5	**18-11-1814-3-A**	**11/19/18 12:50**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:55**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.17	1.00	1.00	

B70-0.5	**18-11-1814-5-A**	**11/20/18 09:00**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:58**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.62	1.00	1.00	

B71-0.5	**18-11-1814-7-A**	**11/20/18 09:10**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:02**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.92	1.00	1.00	

B72-0.5	**18-11-1814-9-A**	**11/20/18 09:20**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:05**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	10.4	1.00	1.00	

B73-0.5	**18-11-1814-11-A**	**11/19/18 12:40**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:19**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.15	1.00	1.00	

B74-0.5	**18-11-1814-13-A**	**11/19/18 13:00**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:23**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.54	1.00	1.00	

B75-0.5	**18-11-1814-15-A**	**11/19/18 13:30**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:26**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.23	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B76-0.5	**18-11-1814-17-A**	**11/20/18 09:40**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:30**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.17	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B77-0.5	**18-11-1814-19-A**	**11/20/18 09:30**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:33**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.27	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B78-0.5	**18-11-1814-21-A**	**11/19/18 12:30**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:37**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.44	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B79-0.5	**18-11-1814-23-A**	**11/19/18 13:10**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:40**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.94	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B80-0.5	**18-11-1814-25-A**	**11/19/18 13:20**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:44**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.50	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B81-0.5	**18-11-1814-27-A**	**11/20/18 09:50**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:47**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.09	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B82-0.5	**18-11-1814-29-A**	**11/20/18 10:00**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 18:51**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.76	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B83-0.5	**18-11-1814-31-A**	**11/19/18 10:15**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:26**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.42	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B84-0.5	**18-11-1814-34-A**	**11/19/18 10:00**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:30**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.62	1.00	1.00	

B85-0.5	**18-11-1814-37-A**	**11/19/18 09:45**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:33**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.06	1.00	1.00	

B86-0.5	**18-11-1814-40-A**	**11/19/18 09:30**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:37**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.91	1.00	1.00	

B87-0.5	**18-11-1814-43-A**	**11/19/18 09:15**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:40**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.24	1.00	1.00	

B88-0.5	**18-11-1814-46-A**	**11/19/18 08:50**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:19**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	2.68	1.00	1.00	

B89-0.5	**18-11-1814-49-A**	**11/19/18 08:50**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:22**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.72	1.00	1.00	

B90-0.5	**18-11-1814-52-A**	**11/19/18 10:30**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:26**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.49	1.00	1.00	

B91-0.5	**18-11-1814-55-A**	**11/19/18 10:45**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:29**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.85	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B92-0.5	**18-11-1814-58-A**	**11/19/18 11:00**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:33**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.28	1.00	1.00	

B93-0.5	**18-11-1814-61-A**	**11/19/18 11:15**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:37**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.75	1.00	1.00	

B94-0.5	**18-11-1814-64-A**	**11/19/18 11:30**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:40**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.58	1.00	1.00	

B95-0.5	**18-11-1814-67-A**	**11/21/18 10:25**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:44**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.83	1.00	1.00	

B96-0.5	**18-11-1814-71-A**	**11/21/18 10:25**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:58**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.97	1.00	1.00	

B61A-0.5	**18-11-1814-75-A**	**11/20/18 10:40**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:01**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.64	1.00	1.00	

B61B-0.5	**18-11-1814-78-A**	**11/20/18 10:55**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:05**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.03	1.00	1.00	

B61C-0.5	**18-11-1814-81-A**	**11/20/18 11:10**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:08**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.86	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52A-0.5	**18-11-1814-84-A**	**11/21/18 09:00**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:12**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.49	1.00	1.00	

B52B-0.5	**18-11-1814-87-A**	**11/21/18 09:15**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:15**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	7.78	1.00	1.00	

B52C-0.5	**18-11-1814-90-A**	**11/21/18 09:30**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:19**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	12.4	1.00	1.00	

B61B-0.5 DUP	**18-11-1814-94-A**	**11/20/18 10:55**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:22**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.46	1.00	1.00	

B73-0.5 DUP	**18-11-1814-95-A**	**11/19/18 12:40**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:26**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	5.53	1.00	1.00	

B80-0.5 DUP	**18-11-1814-97-A**	**11/19/18 13:20**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:29**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	8.33	1.00	1.00	

B86-0.5 DUP	**18-11-1814-99-A**	**11/19/18 09:30**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 21:43**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	6.40	1.00	1.00	

Method Blank	**099-15-621-1781**	**N/A**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:16**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-1782**	**N/A**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:44**	**181127L07**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B68-0.5	**18-11-1814-1-A**	**11/19/18 12:40**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 12:06**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	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

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 2 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B69-0.5	**18-11-1814-3-A**	**11/19/18 12:50**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 12:21**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	82	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 3 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B70-0.5	**18-11-1814-5-A**	**11/20/18 09:00**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 12:36**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 4 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B71-0.5	**18-11-1814-7-A**	**11/20/18 09:10**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 12:51**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	72	24-168	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 5 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B72-0.5	**18-11-1814-9-A**	**11/20/18 09:20**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 13:06**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	59	24-168	
2,4,5,6-Tetrachloro-m-Xylene	51	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 6 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B73-0.5	**18-11-1814-11-A**	**11/19/18 12:40**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 13:21**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B74-0.5	**18-11-1814-13-A**	**11/19/18 13:00**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 13:36**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 8 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B75-0.5	**18-11-1814-15-A**	**11/19/18 13:30**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 13:51**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 9 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B76-0.5	**18-11-1814-17-A**	**11/20/18 09:40**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 14:06**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 10 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B77-0.5	**18-11-1814-19-A**	**11/20/18 09:30**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 14:21**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	73	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 11 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B78-0.5	**18-11-1814-21-A**	**11/19/18 12:30**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 14:36**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	70	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 12 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B79-0.5	**18-11-1814-23-A**	**11/19/18 13:10**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 14:51**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	7.0	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	69	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 13 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B80-0.5	**18-11-1814-25-A**	**11/19/18 13:20**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 15:06**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	67	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 14 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B81-0.5	**18-11-1814-27-A**	**11/20/18 09:50**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 15:21**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 15 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B82-0.5	**18-11-1814-29-A**	**11/20/18 10:00**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 15:36**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B83-0.5	**18-11-1814-31-A**	**11/19/18 10:15**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 15:51**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	24-168	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B84-0.5	**18-11-1814-34-A**	**11/19/18 10:00**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 17:14**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B85-0.5	**18-11-1814-37-A**	**11/19/18 09:45**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 17:29**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	64	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 19 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B86-0.5	**18-11-1814-40-A**	**11/19/18 09:30**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 17:44**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	50	24-168	
2,4,5,6-Tetrachloro-m-Xylene	49	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 20 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B87-0.5	**18-11-1814-43-A**	**11/19/18 09:15**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 17:58**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B88-0.5	**18-11-1814-46-A**	**11/19/18 08:50**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 15:51**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	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

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 22 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B89-0.5	**18-11-1814-49-A**	**11/19/18 08:50**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 16:06**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	112	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 23 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B90-0.5	**18-11-1814-52-A**	**11/19/18 10:30**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 16:20**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	28	24-168	
2,4,5,6-Tetrachloro-m-Xylene	25	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B91-0.5	**18-11-1814-55-A**	**11/19/18 10:45**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 16:34**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	102	24-168	
2,4,5,6-Tetrachloro-m-Xylene	91	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 25 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B92-0.5	**18-11-1814-58-A**	**11/19/18 11:00**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 16:48**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	86	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B93-0.5	**18-11-1814-61-A**	**11/19/18 11:15**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 10:18**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	24-168	
2,4,5,6-Tetrachloro-m-Xylene	91	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B94-0.5	**18-11-1814-64-A**	**11/19/18 11:30**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 10:32**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B95-0.5	**18-11-1814-67-A**	**11/21/18 10:25**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 10:47**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	7.9	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	87	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B96-0.5	**18-11-1814-71-A**	**11/21/18 10:25**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 11:01**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61A-0.5	**18-11-1814-75-A**	**11/20/18 10:40**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 11:15**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	390	50	1.00	
4,4'-DDD	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	7.6	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

B61A-0.5	**18-11-1814-75-A**	**11/20/18 10:40**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 14:20**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	91	50	10.0	
4,4'-DDT	89	50	10.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	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

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61B-0.5	**18-11-1814-78-A**	**11/20/18 10:55**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 11:29**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	12	4.9	1.00	
4,4'-DDT	10	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	69	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61C-0.5	**18-11-1814-81-A**	**11/20/18 11:10**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 11:43**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	200	50	1.00	
4,4'-DDD	15	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	107	24-168	
2,4,5,6-Tetrachloro-m-Xylene	83	25-145	

B61C-0.5	**18-11-1814-81-A**	**11/20/18 11:10**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 14:34**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	46	25	5.00	
4,4'-DDT	57	25	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 33 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52A-0.5	**18-11-1814-84-A**	**11/21/18 09:00**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 12:40**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	87	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 34 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52B-0.5	**18-11-1814-87-A**	**11/21/18 09:15**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 12:54**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.8	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	75	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	20	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.8	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.8	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	98	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 35 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52C-0.5	**18-11-1814-90-A**	**11/21/18 09:30**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 13:09**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	64	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	12	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	115	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

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 36 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61B-0.5 DUP	**18-11-1814-94-A**	**11/20/18 10:55**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 13:23**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	65	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	19	5.0	1.00	
4,4'-DDT	35	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 37 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B73-0.5 DUP	**18-11-1814-95-A**	**11/19/18 12:40**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 13:37**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 38 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B80-0.5 DUP	**18-11-1814-97-A**	**11/19/18 13:20**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 13:52**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	4.9	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	4.9	1.00	
Chlordane	ND	49	1.00	
4,4'-DDD	ND	4.9	1.00	
4,4'-DDE	ND	4.9	1.00	
4,4'-DDT	ND	4.9	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	4.9	1.00	
Endosulfan I	ND	4.9	1.00	
Endosulfan II	ND	4.9	1.00	
Endosulfan Sulfate	ND	4.9	1.00	
Endrin	ND	4.9	1.00	
Endrin Aldehyde	ND	4.9	1.00	
Endrin Ketone	ND	4.9	1.00	
Gamma-BHC	ND	4.9	1.00	
Heptachlor	ND	4.9	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	4.9	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 39 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B86-0.5 DUP	**18-11-1814-99-A**	**11/19/18 09:30**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 14:06**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	82	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 40 of 41

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3065**	**N/A**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 11:06**	**181127L05**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	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

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3066**	**N/A**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 14:54**	**181127L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	106	24-168	
2,4,5,6-Tetrachloro-m-Xylene	105	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B95-0.5	**18-11-1814-67-A**	**11/21/18 10:25**	**Solid**	**GC/MS Q**	**11/26/18**	**11/26/18 13:17**	**181126L001**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.1	1.00	
1,1,1-Trichloroethane	ND	5.1	1.00	
1,1,2,2-Tetrachloroethane	ND	5.1	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	51	1.00	
1,1,2-Trichloroethane	ND	5.1	1.00	
1,1-Dichloroethane	ND	5.1	1.00	
1,1-Dichloroethene	ND	5.1	1.00	
1,1-Dichloropropene	ND	5.1	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.1	1.00	
1,2,4-Trichlorobenzene	ND	5.1	1.00	
1,2,4-Trimethylbenzene	ND	5.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	25	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
1,2-Dichlorobenzene	ND	5.1	1.00	
1,2-Dichloroethane	ND	2.5	1.00	
1,2-Dichloropropane	ND	5.1	1.00	
1,3,5-Trimethylbenzene	ND	5.1	1.00	
1,3-Dichlorobenzene	ND	5.1	1.00	
1,3-Dichloropropane	ND	5.1	1.00	
1,4-Dichlorobenzene	ND	5.1	1.00	
2,2-Dichloropropane	ND	5.1	1.00	
2-Butanone	ND	51	1.00	
2-Chlorotoluene	ND	5.1	1.00	
2-Hexanone	ND	51	1.00	
4-Chlorotoluene	ND	5.1	1.00	
4-Methyl-2-Pentanone	ND	51	1.00	
Acetone	ND	130	1.00	
Benzene	ND	5.1	1.00	
Bromobenzene	ND	5.1	1.00	
Bromochloromethane	ND	5.1	1.00	
Bromodichloromethane	ND	5.1	1.00	
Bromoform	ND	5.1	1.00	
Bromomethane	ND	25	1.00	
Carbon Disulfide	ND	51	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
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Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.1	1.00	
Chlorobenzene	ND	5.1	1.00	
Chloroethane	ND	5.1	1.00	
Chloroform	ND	5.1	1.00	
Chloromethane	ND	25	1.00	
Dibromochloromethane	ND	5.1	1.00	
Dibromomethane	ND	5.1	1.00	
Dichlorodifluoromethane	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
Isopropylbenzene	ND	5.1	1.00	
Methylene Chloride	ND	51	1.00	
Naphthalene	ND	51	1.00	
Styrene	ND	5.1	1.00	
Tetrachloroethene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
t-1,2-Dichloroethene	ND	5.1	1.00	
Trichloroethene	ND	5.1	1.00	
Trichlorofluoromethane	ND	51	1.00	
Vinyl Acetate	ND	51	1.00	
Vinyl Chloride	ND	5.1	1.00	
c-1,3-Dichloropropene	ND	5.1	1.00	
c-1,2-Dichloroethene	ND	5.1	1.00	
n-Butylbenzene	ND	5.1	1.00	
n-Propylbenzene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
p-Isopropyltoluene	ND	5.1	1.00	
sec-Butylbenzene	ND	5.1	1.00	
t-1,3-Dichloropropene	ND	5.1	1.00	
tert-Butylbenzene	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	98	71-155	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B96-0.5	**18-11-1814-71-A**	**11/21/18 10:25**	**Solid**	**GC/MS Q**	**11/26/18**	**11/26/18 13:44**	**181126L001**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
1,1-Dichloropropene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	25	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,2-Dichloroethane	ND	2.5	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	
2-Butanone	ND	50	1.00	
2-Chlorotoluene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
4-Chlorotoluene	ND	5.0	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Acetone	ND	130	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
Carbon Disulfide	ND	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
Dibromochloromethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Isopropylbenzene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
Naphthalene	ND	50	1.00	
Styrene	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
Trichloroethene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
n-Butylbenzene	ND	5.0	1.00	
n-Propylbenzene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	97	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-14870**	**N/A**	**Solid**	**GC/MS Q**	**11/26/18**	**11/26/18 11:15**	**181126L001**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
1,1-Dichloropropene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	25	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,2-Dichloroethane	ND	2.5	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	
2-Butanone	ND	50	1.00	
2-Chlorotoluene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
4-Chlorotoluene	ND	5.0	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
Carbon Disulfide	ND	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
Dibromochloromethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Isopropylbenzene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
Naphthalene	ND	50	1.00	
Styrene	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
Trichloroethene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
n-Butylbenzene	ND	5.0	1.00	
n-Propylbenzene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	98	79-133	
1,2-Dichloroethane-d4	96	71-155	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: LAUSD Taft HS / 9836003557			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B68-0.5	**Sample**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 21:57**	**181127S02A**
B68-0.5	**Matrix Spike**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 21:58**	**181127S02A**
B68-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 21:59**	**181127S02A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	30.53	25.00	49.74	77	51.57	84	75-125	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: LAUSD Taft HS / 9836003557			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B88-0.5	**Sample**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:28**	**181127S03B**
B88-0.5	**Matrix Spike**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:29**	**181127S03B**
B88-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:33**	**181127S03B**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	15.87	25.00	40.82	100	41.03	101	75-125	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B68-0.5	**Sample**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:51**	**181127S06**
B68-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:37**	**181127S06**
B68-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:41**	**181127S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	8.218	25.00	36.04	111	35.85	111	72-132	1	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B88-0.5	**Sample**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 20:19**	**181127S07**
B88-0.5	**Matrix Spike**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:54**	**181127S07**
B88-0.5	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:58**	**181127S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	2.678	25.00	28.54	103	28.40	103	72-132	0	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: LAUSD Taft HS / 9836003557			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B72-0.5	**Sample**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 13:06**	**181127S05**
B72-0.5	**Matrix Spike**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 11:36**	**181127S05**
B72-0.5	**Matrix Spike Duplicate**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 18:14**	**181127S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	13.23	53	11.78	47	50-135	12	0-25	3
Alpha-BHC	ND	25.00	13.06	52	12.06	48	50-135	8	0-25	3
Beta-BHC	ND	25.00	14.63	59	12.91	52	50-135	12	0-25	
4,4'-DDD	ND	25.00	14.86	59	12.18	49	50-135	20	0-25	3
4,4'-DDE	ND	25.00	16.87	67	13.77	55	50-135	20	0-25	
4,4'-DDT	ND	25.00	16.22	65	11.79	47	50-135	32	0-25	3,4
Delta-BHC	ND	25.00	14.20	57	12.52	50	50-135	13	0-25	
Dieldrin	ND	25.00	14.82	59	12.18	49	50-135	20	0-25	3
Endosulfan I	ND	25.00	15.52	62	13.28	53	50-135	16	0-25	
Endosulfan II	ND	25.00	17.54	70	13.82	55	50-135	24	0-25	
Endosulfan Sulfate	ND	25.00	14.38	58	10.90	44	50-135	27	0-25	3,4
Endrin	ND	25.00	14.42	58	11.98	48	50-135	18	0-25	3
Endrin Aldehyde	ND	25.00	13.20	53	11.09	44	50-135	17	0-25	3
Gamma-BHC	ND	25.00	13.46	54	12.41	50	50-135	8	0-25	
Heptachlor	ND	25.00	13.72	55	12.32	49	50-135	11	0-25	3
Heptachlor Epoxide	ND	25.00	14.14	57	12.12	48	50-135	15	0-25	3
Methoxychlor	ND	25.00	14.30	57	10.79	43	50-135	28	0-25	3,4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: LAUSD Taft HS / 9836003557			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B73-0.5 DUP	**Sample**	**Solid**	**GC 51**	**11/27/18**	**11/29/18 13:37**	**181127S06**
B73-0.5 DUP	**Matrix Spike**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 15:23**	**181127S06**
B73-0.5 DUP	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 15:37**	**181127S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	20.45	82	17.73	71	50-135	14	0-25	
Alpha-BHC	ND	25.00	19.18	77	16.40	66	50-135	16	0-25	
Beta-BHC	ND	25.00	17.82	71	16.82	67	50-135	6	0-25	
4,4'-DDD	ND	25.00	24.50	98	22.05	88	50-135	11	0-25	
4,4'-DDE	ND	25.00	24.62	98	21.40	86	50-135	14	0-25	
4,4'-DDT	ND	25.00	26.51	106	19.88	80	50-135	29	0-25	4
Delta-BHC	ND	25.00	22.36	89	19.50	78	50-135	14	0-25	
Dieldrin	ND	25.00	25.02	100	26.10	104	50-135	4	0-25	
Endosulfan I	ND	25.00	22.54	90	20.88	84	50-135	8	0-25	
Endosulfan II	ND	25.00	24.84	99	22.91	92	50-135	8	0-25	
Endosulfan Sulfate	ND	25.00	23.37	93	19.99	80	50-135	16	0-25	
Endrin	ND	25.00	20.27	81	19.65	79	50-135	3	0-25	
Endrin Aldehyde	ND	25.00	19.39	78	18.10	72	50-135	7	0-25	
Gamma-BHC	ND	25.00	19.94	80	17.85	71	50-135	11	0-25	
Heptachlor	ND	25.00	20.77	83	18.10	72	50-135	14	0-25	
Heptachlor Epoxide	ND	25.00	23.50	94	25.61	102	50-135	9	0-25	
Methoxychlor	ND	25.00	25.65	103	19.77	79	50-135	26	0-25	4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: LAUSD Taft HS / 9836003557			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B95-0.5	**Sample**	**Solid**	**GC/MS Q**	**11/26/18**	**11/26/18 13:17**	**181126S001**
B95-0.5	**Matrix Spike**	**Solid**	**GC/MS Q**	**11/26/18**	**11/26/18 15:31**	**181126S001**
B95-0.5	**Matrix Spike Duplicate**	**Solid**	**GC/MS Q**	**11/26/18**	**11/26/18 15:58**	**181126S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloroethene	ND	50.00	33.57	67	37.57	75	47-143	11	0-25	
1,2-Dibromoethane	ND	50.00	36.87	74	40.41	81	64-124	9	0-20	
1,2-Dichlorobenzene	ND	50.00	27.77	56	31.68	63	35-131	13	0-25	
1,2-Dichloroethane	ND	50.00	34.36	69	37.59	75	80-120	9	0-20	3
Benzene	ND	50.00	32.05	64	36.03	72	61-127	12	0-20	
Carbon Tetrachloride	ND	50.00	30.22	60	35.74	71	51-135	17	0-29	
Chlorobenzene	ND	50.00	31.00	62	35.04	70	57-123	12	0-20	
Ethylbenzene	ND	50.00	31.76	64	36.31	73	57-129	13	0-22	
Toluene	ND	50.00	33.40	67	37.73	75	63-123	12	0-20	
Trichloroethene	ND	50.00	34.10	68	38.88	78	44-158	13	0-20	
Vinyl Chloride	ND	50.00	39.78	80	42.91	86	49-139	8	0-47	
o-Xylene	ND	50.00	32.03	64	36.32	73	70-130	13	0-30	3
p/m-Xylene	ND	100.0	62.35	62	70.79	71	70-130	13	0-30	3
Methyl-t-Butyl Ether (MTBE)	ND	50.00	32.44	65	35.73	71	57-123	10	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	197.4	79	212.5	85	30-168	7	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	33.48	67	38.20	76	57-129	13	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	32.51	65	36.69	73	55-127	12	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	38.44	77	42.56	85	58-124	10	0-20	
Ethanol	ND	500.0	326.1	65	343.6	69	17-167	5	0-47	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B68-0.5	**Sample**	**Solid**	**ICP/MS 05**	**11/27/18 00:00**	**11/28/18 17:51**	**181127S06**
B68-0.5	**PDS**	**Solid**	**ICP/MS 05**	**11/27/18 00:00**	**11/28/18 17:44**	**181127S06**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	8.218	25.00	34.16	104	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
B88-0.5	**Sample**	**Solid**	**ICP/MS 05**	**11/27/18 00:00**	**11/28/18 20:19**	**181127S07**
B88-0.5	**PDS**	**Solid**	**ICP/MS 05**	**11/27/18 00:00**	**11/28/18 20:12**	**181127S07**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	2.678	25.00	28.58	104	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: LAUSD Taft HS / 9836003557			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27327	**LCS**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 21:54**	**181127L02A**
097-01-002-27327	**LCSD**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 21:56**	**181127L02A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	25.00	24.91	100	24.84	99	80-120	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: LAUSD Taft HS / 9836003557			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27328	**LCS**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:25**	**181127L03A**
097-01-002-27328	**LCSD**	**Solid**	**ICP 8300**	**11/27/18**	**11/28/18 22:27**	**181127L03A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	25.00	24.91	100	24.56	98	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-621-1781	**LCS**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:20**	**181127L06**
099-15-621-1781	**LCSD**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 17:34**	**181127L06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	25.00	25.21	101	25.02	100	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-621-1782	**LCS**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:47**	**181127L07**
099-15-621-1782	**LCSD**	**Solid**	**ICP/MS 05**	**11/27/18**	**11/28/18 19:51**	**181127L07**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	25.00	25.12	100	26.36	105	80-120	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: LAUSD Taft HS / 9836003557			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3065	**LCS**	**Solid**	**GC 41**	**11/27/18**	**11/28/18 11:21**	**181127L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	20.92	84	50-135	36-149	
Alpha-BHC	25.00	21.11	84	50-135	36-149	
Beta-BHC	25.00	20.35	81	50-135	36-149	
4,4'-DDD	25.00	20.61	82	50-135	36-149	
4,4'-DDE	25.00	20.95	84	50-135	36-149	
4,4'-DDT	25.00	19.67	79	50-135	36-149	
Delta-BHC	25.00	21.14	85	50-135	36-149	
Dieldrin	25.00	21.12	84	50-135	36-149	
Endosulfan I	25.00	22.43	90	50-135	36-149	
Endosulfan II	25.00	25.28	101	50-135	36-149	
Endosulfan Sulfate	25.00	19.54	78	50-135	36-149	
Endrin	25.00	20.78	83	50-135	36-149	
Endrin Aldehyde	25.00	17.64	71	50-135	36-149	
Gamma-BHC	25.00	21.13	85	50-135	36-149	
Heptachlor	25.00	21.10	84	50-135	36-149	
Heptachlor Epoxide	25.00	20.63	83	50-135	36-149	
Methoxychlor	25.00	18.25	73	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

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: LAUSD Taft HS / 9836003557			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3066	**LCS**	**Solid**	**GC 51**	**11/27/18**	**11/28/18 15:09**	**181127L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	24.59	98	50-135	36-149	
Alpha-BHC	25.00	24.68	99	50-135	36-149	
Beta-BHC	25.00	23.92	96	50-135	36-149	
4,4'-DDD	25.00	25.45	102	50-135	36-149	
4,4'-DDE	25.00	25.29	101	50-135	36-149	
4,4'-DDT	25.00	26.81	107	50-135	36-149	
Delta-BHC	25.00	25.39	102	50-135	36-149	
Dieldrin	25.00	25.62	102	50-135	36-149	
Endosulfan I	25.00	26.67	107	50-135	36-149	
Endosulfan II	25.00	26.98	108	50-135	36-149	
Endosulfan Sulfate	25.00	25.95	104	50-135	36-149	
Endrin	25.00	23.90	96	50-135	36-149	
Endrin Aldehyde	25.00	23.97	96	50-135	36-149	
Gamma-BHC	25.00	24.59	98	50-135	36-149	
Heptachlor	25.00	25.73	103	50-135	36-149	
Heptachlor Epoxide	25.00	24.93	100	50-135	36-149	
Methoxychlor	25.00	26.35	105	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

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: LAUSD Taft HS / 9836003557			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-14870	**LCS**	**Solid**	**GC/MS Q**	**11/26/18**	**11/26/18 10:00**	**181126L001**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
1,1-Dichloroethene	50.00	47.11	94	68-128	58-138	
1,2-Dibromoethane	50.00	54.06	108	80-120	73-127	
1,2-Dichlorobenzene	50.00	55.22	110	80-120	73-127	
1,2-Dichloroethane	50.00	47.29	95	80-120	73-127	
Benzene	50.00	47.33	95	80-120	73-127	
Carbon Tetrachloride	50.00	51.63	103	65-137	53-149	
Chlorobenzene	50.00	52.80	106	80-120	73-127	
Ethylbenzene	50.00	53.19	106	80-120	73-127	
Toluene	50.00	51.65	103	80-120	73-127	
Trichloroethene	50.00	51.58	103	80-120	73-127	
Vinyl Chloride	50.00	45.02	90	67-127	57-137	
o-Xylene	50.00	53.98	108	75-125	67-133	
p/m-Xylene	100.0	106.1	106	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	42.05	84	70-124	61-133	
Tert-Butyl Alcohol (TBA)	250.0	268.9	108	73-121	65-129	
Diisopropyl Ether (DIPE)	50.00	48.47	97	69-129	59-139	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.75	90	70-124	61-133	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.42	105	74-122	66-130	
Ethanol	500.0	382.4	76	51-135	37-149	

Total number of LCS compounds: 19
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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Sample Analysis Summary Report

Work Order: 18-11-1814

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 6020	EPA 3050B	771	ICP/MS 05	1
EPA 8081A	EPA 3545	669	GC 41	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8260B	EPA 5030C	316	GC/MS Q	2

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Glossary of Terms and Qualifiers

Work Order: 18-11-1814 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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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience		
Project Name / Number	LAUSD Taft HS	9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills	
Project Manager:	D. Salgado	
Sampled by:	P. Skeath	
Phone:	(310) 409-9980	
Email:	Desi. Salgado@efiglobal.com	

18-11-1814

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCP, EPA 8081A	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B68-0.5	1	X			X							11/19/18	1240				X	X				X			X					X			
2	B68-2	2												1245											X									
3	B69-0.5	3												1250				X	X				X											
4	B69-2	4												1255											X									
5	B70-0.5	5											11/20/18	0900				X	X				X											
6	B70-2	6												0905											X									
7	B71-0.5	7												0910				X	X				X											
8	B71-2	8												0915											X									
9	B72-0.5	9												0920				X	X				X											
10	B72-2	10												0925											X									
11	B73-0.5	11											11/19/18	1240				X	X				X											
12	B73-2	12												1245											X									
13	B74-0.5	13												1300				X	X				X											
14	B74-2	14												1305											X									
15	B75-0.5	15												1330				X	X				X											
16	B75-2	16												1335											X									
17	B76-0.5	17											11/20/18	0940				X	X				X											
18	B76-2	18												0945											X									
19	B77-0.5	19												0930				X	X				X											
20	B77-2	20												0935											X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
P. Skeath	11/21/18	1426	Rudy Cc	11/21/18	1426	Sample condition (circle): Chilled Intact
Rudy	11/21/18	1710		11/21/18	1710	Excavation Area:

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

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Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience	
Project Name / Number	LAUSD Taft HS 9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills
Project Manager:	D. Salgado
Sampled by:	P. Skeath
Phone:	(310) 409-9980
Email:	Desi. Salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs 8081A	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B78-0.5	21	X			X							11/19/18	1230				X	X				X			X					X			
2	B78-2	22												1235											X									
3	B79-0.5	23												1310				X	X				X											
4	B79-2	24												1315											X									
5	B80-0.5	25												1320				X	X				X		X									
6	B80-2	26												1325											X									
7	B81-0.5	27											11/20/18	0950				X	X				X											
8	B81-2	28												0955											X									
9	B82-0.5	29												1000				X	X				X											
10	B82-2	30												1005											X									
11	B83-0.5	31											11/19/18	1015				X	X				X											
12	B83-1.5	32												1020											X									
13	B83-3	33												1025											X									
14	B84-0.5	34												1000				X	X				X											
15	B84-1.5	35												1005											X									
16	B84-3	36												1010											X									
17	B85-0.5	37												0945				X	X				X											
18	B85-1.5	38												0950											X									
19	B85-3	39												0955											X									
20	B86-0.5	40												0930				X	X				X											

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	[illegible]	11/21/18	1426
Rudy [illegible]	11/21/18	1710	[illegible]	11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience		
Project Name / Number	LAUSD Taft HS	9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills	
Project Manager:	D. Salgado	
Sampled by:	P. Skeath	
Phone:	(310) 409-9980	
Email:	Desi. Salgado@efiglobal.com	

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6020B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs 8081A	Method:	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B86-1.5	41	X			X							11/19/18	0935												X	X					X			
2	B86-3	42												0940												X									
3	B87-0.5	43												0915				X	X				X												
4	B87-1.5	44												0917												X									
5	B87-3	45												0919												X									
6	B88-0.5	46												0950				X	X				X												
7	B88-1.5	47												0952												X									
8	B88-3	48												0954												X									
9	B89-0.5	49												0850				X	X				X												
10	B89-1.5	50												0852												X									
11	B89-3	51												0854												X									
12	B90-0.5	52												1030				X	X				X												
13	B90-1.5	53												1035												X									
14	B90-3	54												1040												X									
15	B91-0.5	55												1045				X	X				X												
16	B91-1.5	56												1050												X									
17	B91-3	57												1055												X									
18	B92-0.5	58												1100				X	X				X												
19	B92-1.5	59												1105												X									
20	B92-3	60												1110												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	EC	11/21/18	1426
	11/21/18	1710		11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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Chain-of-Custody Record

EFI_01

EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Analytical Laboratory: Eurofins Calscience		
Project Name / Number	LAUSD Taft HS	9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills	
Project Manager:	D. Salgado	
Sampled by:	P. Skeath	
Phone:	(310) 409-9980	
Email:	Desi. Salgado@efiglobal.com	

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6020B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs 8081A	Method: VOCs 8260B	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B93-0.5	61	X			X							11/19/18	1115				X	X				X				X					X			
2	B93-1.5	62												1120												X									
3	B93-3	63												1125												X									
4	B94-0.5	64												1130				X	X				X												
5	B94-1.5	65												1135												X									
6	B94-3	66												1140												X									
7	B95-0.5	67											11/21/18	1025				X	X				X	X											
8	B95-1.5	68												1030												X									
9	B95-3	69												1035												X									
10	B95-6	70												1040												X									
11	B96-0.5	71												1025				X	X				X	X											
12	B96-1.5	72												1030												X									
13	B96-3	73												1035												X									
14	B96-6	74												1040												X									
15	B61A - 0.5	75											11/20/18	1040				X	X				X												
16	B61A - 1.5	76												1045												X									
17	B61A - 3	77												1050												X									
18	B61B - 0.5	78												1055				X	X				X												
19	B61B - 1.5	79												1100												X									
20	B61B - 3	80												1105												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	[signature] EC	11/21/18	1426
[signature]	11/21/18	1710	[signature]	11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience	
Project Name / Number	LAUSD Taft HS 9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills
Project Manager:	D. Salgado
Sampled by:	P. Skeath
Phone:	(310) 409-9980
Email:	Desi. Salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs	Method:	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B61C-0.5	81	X			X							11/20/18	1110				X	X				X				X					X			
2	B61C-1.5	82												1115												X									
3	B61C-3	83												1120												X									
4	B52A-0.5	84											11/21/18	0900				X	X				X												
5	B52A-1.5	85												0905												X									
6	B52A-3	86												0910												X									
7	B52B-0.5	87												0915				X	X				X												
8	B52B-1.5	88												0920												X									
9	B52B-3	89												0925												X									
10	B52C-0.5	90												0930				X	X				X												
11	B52C-1.5	91												0935												X									
12	B52C-3	92												0940												X									
13	B52B-1.5 DUP	93											11/21/18	0920												X									
14	B61B-0.5 DUP	94											11/20/18	1055				X	X				X												
15	B73-0.5 DUP	95											11/19/18	1240				X	X				X												
16	B77-2 DUP	96											11/20/18	0935												X									
17	B80-0.5 DUP	97											11/19/18	1320				X	X				X			X	(9)								
18	B83-1.5 DUP	98												1020												X									
19	B86-0.5 DUP	99												0930				X	X				X												
20	B96-1.5 DUP	100											11/21/18	1030												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	Rudy N.	11/21/18	1426
Rudy N.	11/21/18	1710	[illegible]	11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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WORK ORDER NUMBER: 18-11-1814

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: EFI

DATE: 11/21/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: 0.0°C); Temperature (w/o CF): 2.9 °C (w/ CF): 2.9 °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: VRM

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: VRM
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1163

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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 ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

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, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1163

Reviewed by: UDL

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WORK ORDER NUMBER: 18-11-

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: EFT

DATE: 11/21/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: 0.0°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.7 °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: VRM

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: VRM

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1163

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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 ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB
☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

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, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1163

Reviewed by: UDR

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WORK ORDER NUMBER: 18-11- 1814

SAMPLE ANOMALY REPORT

DATE: 11 / 21 / 2018

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)
- ☐ pH outside acceptable range (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

(-101) received 1 - 8oz. clear glass jar labeled as: B92-3-DUP, 11/19/18 @ 11:10 not on COC.

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: 1163

Reviewed by: UDZ

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Monday, November 26, 2018 9:22 AM
To: Stephen Nowak
Subject: RE: LAUSD Taft HS / 9836003557

EXTERNAL EMAIL*

Steve,

Please add it to the COC and place the sample on hold. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Monday, November 26, 2018 9:20 AM
To: Salgado, Desi
Subject: LAUSD Taft HS / 9836003557

Desi- See attached COC and sample anomaly form (Page 8).

Extra sample rec'd not listed on the COC- B92-3_DUP 11/19/18 @ 11:10.
Let me know if we are to do anything with this sample.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Env

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Supplemental Report 1

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-11-1814

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: LAUSD Taft HS / 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 12/12/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: LAUSD Taft HS / 9836003557
Work Order Number: 18-11-1814

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Work Order Narrative

Work Order: 18-11-1814 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/21/18. They were assigned to Work Order 18-11-1814.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-11-1814
		Project Name:	LAUSD Taft HS / 9836003557
		PO Number:	
		Date/Time Received:	11/21/18 17:10
		Number of Containers:	101
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B61A-0.5	18-11-1814-75	11/20/18 10:40	1	Solid
B61B-0.5	18-11-1814-78	11/20/18 10:55	1	Solid
B61C-0.5	18-11-1814-81	11/20/18 11:10	1	Solid

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Detections Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order: Project Name: Received:	18-11-1814 LAUSD Taft HS / 9836003557 11/21/18
Attn:	Desi Salgado		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B61A-0.5 (18-11-1814-75)						
Lead	1.55		0.500	mg/L	EPA 6010B	T22.11.5. All
B61B-0.5 (18-11-1814-78)						
Lead	0.508		0.500	mg/L	EPA 6010B	T22.11.5. All
B61C-0.5 (18-11-1814-81)						
Lead	1.38		0.500	mg/L	EPA 6010B	T22.11.5. All

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
		Units:	mg/L
Project: LAUSD Taft HS / 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B61A-0.5	**18-11-1814-75-A**	**11/20/18 10:40**	**Solid**	**ICP 8300**	**12/07/18**	**12/11/18 15:00**	**181211LA1**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	1.55	0.500	1.00	

B61B-0.5	**18-11-1814-78-A**	**11/20/18 10:55**	**Solid**	**ICP 8300**	**12/07/18**	**12/11/18 15:02**	**181211LA1**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	0.508	0.500	1.00	

B61C-0.5	**18-11-1814-81-A**	**11/20/18 11:10**	**Solid**	**ICP 8300**	**12/07/18**	**12/11/18 15:03**	**181211LA1**

Comment(s): - The analysis was performed on a STLC extract of the sample.

Parameter	Result	RL	DF	Qualifiers
Lead	1.38	0.500	1.00	

Method Blank	**097-05-006-9854**	**N/A**	**Aqueous**	**ICP 8300**	**12/07/18**	**12/11/18 13:05**	**181211LA1**

Parameter	Result	RL	DF	Qualifiers
Lead	ND	0.500	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: LAUSD Taft HS / 9836003557			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-11-2177-5	**Sample**	**Solid**	**ICP 8300**	**12/07/18**	**12/11/18 13:11**	**181211SA1**
18-11-2177-5	**Matrix Spike**	**Solid**	**ICP 8300**	**12/07/18**	**12/11/18 13:13**	**181211SA1**
18-11-2177-5	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**12/07/18**	**12/11/18 13:15**	**181211SA1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	ND	5.000	5.359	107	5.231	105	75-125	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	T22.11.5. AII
		Method:	EPA 6010B
Project: LAUSD Taft HS / 9836003557			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-05-006-9854	**LCS**	**Aqueous**	**ICP 8300**	**12/07/18**	**12/11/18 13:07**	**181211LA1**
097-05-006-9854	**LCSD**	**Aqueous**	**ICP 8300**	**12/07/18**	**12/11/18 13:09**	**181211LA1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Lead	5.000	5.304	106	5.364	107	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 18-11-1814 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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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Friday, December 07, 2018 10:07 AM
To: Stephen Nowak
Cc: Lutmer, Christine
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

EXTERNAL EMAIL*

Hi Steve,

I'd like to request STLC analysis for lead for the following samples:

B61A-0.5
B61B-0.5
B61C-0.5

Thanks!

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, December 04, 2018 4:06 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience		
Project Name / Number	LAUSD Taft HS	9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills	
Project Manager:	D. Salgado	
Sampled by:	P. Skeath	
Phone:	(310) 409-9980	
Email:	Desi. Salgado@efiglobal.com	

18-11-1814

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCP, EPA 8081A	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B68-0.5	1	X			X							11/19/18	1240				X	X				X			X					X			
2	B68-2	2												1245											X									
3	B69-0.5	3												1250				X	X				X											
4	B69-2	4												1255											X									
5	B70-0.5	5											11/20/18	0900				X	X				X											
6	B70-2	6												0905											X									
7	B71-0.5	7												0910				X	X				X											
8	B71-2	8												0915											X									
9	B72-0.5	9												0920				X	X				X											
10	B72-2	10												0925											X									
11	B73-0.5	11											11/19/18	1240				X	X				X											
12	B73-2	12												1245											X									
13	B74-0.5	13												1300				X	X				X											
14	B74-2	14												1305											X									
15	B75-0.5	15												1330				X	X				X											
16	B75-2	16												1335											X									
17	B76-0.5	17											11/20/18	0940				X	X				X											
18	B76-2	18												0945											X									
19	B77-0.5	19												0930				X	X				X											
20	B77-2	20												0935											X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
P. Skeath	11/21/18	1426	Rudy C	11/21/18	1426	Sample condition (circle): Chilled Intact
Rudy	11/21/18	1710	[illegible]	11/21/18	1710	Excavation Area:

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
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Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience	
Project Name / Number	LAUSD Taft HS — 9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills
Project Manager:	D. Salgado
Sampled by:	P. Skeath
Phone:	(310) 409-9980
Email:	Desi. Salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs 8081A	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B78-0.5	21	X			X							11/19/18	1230				X	X				X			X					X			
2	B78-2	22												1235											X									
3	B79-0.5	23												1310				X	X				X											
4	B79-2	24												1315											X									
5	B80-0.5	25												1320				X	X				X		X									
6	B80-2	26												1325											X									
7	B81-0.5	27											11/20/18	0950				X	X				X											
8	B81-2	28												0955											X									
9	B82-0.5	29												1000				X	X				X											
10	B82-2	30												1005											X									
11	B83-0.5	31											11/19/18	1015				X	X				X											
12	B83-1.5	32												1020											X									
13	B83-3	33												1025											X									
14	B84-0.5	34												1000				X	X				X											
15	B84-1.5	35												1005											X									
16	B84-3	36												1010											X									
17	B85-0.5	37												0945				X	X				X											
18	B85-1.5	38												0950											X									
19	B85-3	39												0955											X									
20	B86-0.5	40												0930				X	X				X											

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	[illegible]	11/21/18	1426
Rudy [illegible]	11/21/18	1710	[illegible]	11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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EFI Global
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Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience		
Project Name / Number	LAUSD Taft HS	9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills	
Project Manager:	D. Salgado	
Sampled by:	P. Skeath	
Phone:	(310) 409-9980	
Email:	Desi. Salgado@efiglobal.com	

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6020B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs 8081A	Method:	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B86-1.5	41	X			X							11/19/18	0935												X	X					X			
2	B86-3	42												0940												X									
3	B87-0.5	43												0915				X	X				X												
4	B87-1.5	44												0917												X									
5	B87-3	45												0919												X									
6	B88-0.5	46												0950				X	X				X												
7	B88-1.5	47												0952												X									
8	B88-3	48												0954												X									
9	B89-0.5	49												0850				X	X				X												
10	B89-1.5	50												0852												X									
11	B89-3	51												0854												X									
12	B90-0.5	52												1030				X	X				X												
13	B90-1.5	53												1035												X									
14	B90-3	54												1040												X									
15	B91-0.5	55												1045				X	X				X												
16	B91-1.5	56												1050												X									
17	B91-3	57												1055												X									
18	B92-0.5	58												1100				X	X				X												
19	B92-1.5	59												1105												X									
20	B92-3	60												1110												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	EC	11/21/18	1426
	11/21/18	1710		11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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Chain-of-Custody Record

EFI_01

EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Analytical Laboratory: Eurofins Calscience		
Project Name / Number	LAUSD Taft HS	9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills	
Project Manager:	D. Salgado	
Sampled by:	P. Skeath	
Phone:	(310) 409-9980	
Email:	Desi. Salgado@efiglobal.com	

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6020B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs 8081A	Method: VOCs 8260B	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B93-0.5	61	X			X							11/19/18	1115				X	X				X				X					X			
2	B93-1.5	62												1120												X									
3	B93-3	63												1125												X									
4	B94-0.5	64												1130				X	X				X												
5	B94-1.5	65												1135												X									
6	B94-3	66												1140												X									
7	B95-0.5	67											11/21/18	1025				X	X				X	X											
8	B95-1.5	68												1030												X									
9	B95-3	69												1035												X									
10	B95-6	70												1040												X									
11	B96-0.5	71												1025				X	X				X	X											
12	B96-1.5	72												1030												X									
13	B96-3	73												1035												X									
14	B96-6	74												1040												X									
15	B61A - 0.5	75											11/20/18	1040				X	X				X												
16	B61A - 1.5	76												1045												X									
17	B61A - 3	77												1050												X									
18	B61B - 0.5	78												1055				X	X				X												
19	B61B - 1.5	79												1100												X									
20	B61B - 3	80												1105												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	[signature] EC	11/21/18	1426
[signature]	11/21/18	1710	[signature]	11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience	
Project Name / Number	LAUSD Taft HS 9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills
Project Manager:	D. Salgado
Sampled by:	P. Skeath
Phone:	(310) 409-9980
Email:	Desi. Salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs	Method:	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B61C-0.5	81	X			X							11/20/18	1110				X	X				X				X					X			
2	B61C-1.5	82												1115												X									
3	B61C-3	83												1120												X									
4	B52A-0.5	84											11/21/18	0900				X	X				X												
5	B52A-1.5	85												0905												X									
6	B52A-3	86												0910												X									
7	B52B-0.5	87												0915				X	X				X												
8	B52B-1.5	88												0920												X									
9	B52B-3	89												0925												X									
10	B52C-0.5	90												0930				X	X				X												
11	B52C-1.5	91												0935												X									
12	B52C-3	92												0940												X									
13	B52B-1.5 DUP	93											11/21/18	0920												X									
14	B61B-0.5 DUP	94											11/20/18	1055				X	X				X												
15	B73-0.5 DUP	95											11/19/18	1240				X	X				X												
16	B77-2 DUP	96											11/20/18	0935												X									
17	B80-0.5 DUP	97											11/19/18	1320				X	X				X			X									
18	B83-1.5 DUP	98												1020												X									
19	B86-0.5 DUP	99												0930				X	X				X												
20	B96-1.5 DUP	100											11/21/18	1030												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	Rudy N	11/21/18	1426
Rudy N	11/21/18	1710	[illegible]	11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

Return to Contents

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WORK ORDER NUMBER: 18-11-1814

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: EFI

DATE: 11/21/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: 0.0°C); Temperature (w/o CF): 2.9 °C (w/ CF): 2.9 °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: VRM

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: VRM
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1163

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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 ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB
☐ 1AGB ☐ 1AGBna_2 ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

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, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1163

Reviewed by: UDL

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WORK ORDER NUMBER: 18-11-

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: EFT

DATE: 11/21/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: 0.0°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.7 °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: VRM

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: VRM

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1163

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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 ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB
☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____
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, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1163

Reviewed by: UDR

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WORK ORDER NUMBER: 18-11- 1814

SAMPLE ANOMALY REPORT

DATE: 11 / 21 / 2018

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)
- ☐ pH outside acceptable range (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

(-101) received 1 - 8oz. clear glass jar labeled as: B92-3-DUP, 11/19/18 @ 11:10 not on COC.

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: 1163

Reviewed by: UDZ

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Monday, November 26, 2018 9:22 AM
To: Stephen Nowak
Subject: RE: LAUSD Taft HS / 9836003557

EXTERNAL EMAIL*

Steve,

Please add it to the COC and place the sample on hold. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Monday, November 26, 2018 9:20 AM
To: Salgado, Desi
Subject: LAUSD Taft HS / 9836003557

Desi- See attached COC and sample anomaly form (Page 8).

Extra sample rec'd not listed on the COC- B92-3_DUP 11/19/18 @ 11:10.
Let me know if we are to do anything with this sample.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Env

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Friday, December 07, 2018 2:00 PM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

EXTERNAL EMAIL*

Please proceed. Thank you!

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Friday, December 07, 2018 1:59 PM
To: Salgado, Desi
Cc: Hoaibao Nguyen
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

Please also run B52C-1.5 for arsenic by 6020. OK- added.

Also, is there enough sample left to run TPHcc on B95-0.5 and B96-0.5? –YES, let me know if you want to add.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Env

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From: Salgado, Desi [mailto:Desi.Salgado@EFIGLOBAL.com]
Sent: Friday, December 07, 2018 1:30 PM
To: Stephen Nowak
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

EXTERNAL EMAIL*

Steve,

Please also run B52C-1.5 for arsenic by 6020. Also, is there enough sample left to run TPHcc on B95-0.5 and B96-0.5? Please advise. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Friday, December 07, 2018 11:56 AM
To: Salgado, Desi
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

OK- will do.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com

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Supplemental Report 2

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 18-11-1814

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: LAUSD Taft HS / 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 12/14/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-11-1814

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Work Order Narrative

Work Order: 18-11-1814 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/21/18. They were assigned to Work Order 18-11-1814.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-11-1814
		Project Name:	LAUSD Taft HS / 9836003557
		PO Number:	
		Date/Time Received:	11/21/18 17:10
		Number of Containers:	101
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B95-0.5	18-11-1814-67	11/21/18 10:25	1	Solid
B96-0.5	18-11-1814-71	11/21/18 10:25	1	Solid
B52C-1.5	18-11-1814-91	11/21/18 09:35	1	Solid

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Detections Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order: Project Name: Received:	18-11-1814 LAUSD Taft HS / 9836003557 11/21/18
Attn:	Desi Salgado		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B95-0.5 (18-11-1814-67)						
C29-C32	7.3	ET	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C33-C36	6.4	ET	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C37-C40	5.4	ET	5.0	mg/kg	EPA 8015B (M)	EPA 3550B
B52C-1.5 (18-11-1814-91)						
Arsenic	9.73		1.00	mg/kg	EPA 6020	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B95-0.5	**18-11-1814-67-A**	**11/21/18 10:25**	**Solid**	**GC 48**	**12/08/18**	**12/10/18 18:53**	**181208B01A**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	ET
C7	ND	5.0	1.00	ET
C8	ND	5.0	1.00	ET
C9-C10	ND	5.0	1.00	ET
C11-C12	ND	5.0	1.00	ET
C13-C14	ND	5.0	1.00	ET
C15-C16	ND	5.0	1.00	ET
C17-C18	ND	5.0	1.00	ET
C19-C20	ND	5.0	1.00	ET
C21-C22	ND	5.0	1.00	ET
C23-C24	ND	5.0	1.00	ET
C25-C28	ND	5.0	1.00	ET
C29-C32	7.3	5.0	1.00	ET
C33-C36	6.4	5.0	1.00	ET
C37-C40	5.4	5.0	1.00	ET
C41-C44	ND	5.0	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	89	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B96-0.5	**18-11-1814-71-A**	**11/21/18 10:25**	**Solid**	**GC 48**	**12/08/18**	**12/10/18 19:14**	**181208B01A**

Comment(s): - Sample extracted outside recommended holding time.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	ET
C7	ND	4.9	1.00	ET
C8	ND	4.9	1.00	ET
C9-C10	ND	4.9	1.00	ET
C11-C12	ND	4.9	1.00	ET
C13-C14	ND	4.9	1.00	ET
C15-C16	ND	4.9	1.00	ET
C17-C18	ND	4.9	1.00	ET
C19-C20	ND	4.9	1.00	ET
C21-C22	ND	4.9	1.00	ET
C23-C24	ND	4.9	1.00	ET
C25-C28	ND	4.9	1.00	ET
C29-C32	ND	4.9	1.00	ET
C33-C36	ND	4.9	1.00	ET
C37-C40	ND	4.9	1.00	ET
C41-C44	ND	4.9	1.00	ET

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	88	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			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	**099-15-490-3430**	**N/A**	**Solid**	**GC 48**	**12/08/18**	**12/10/18 13:26**	**181208B01A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	88	61-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B52C-1.5	**18-11-1814-91-A**	**11/21/18 09:35**	**Solid**	**ICP/MS 05**	**12/10/18**	**12/11/18 21:02**	**181210L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	9.73	1.00	1.00	

Method Blank	**099-15-621-1789**	**N/A**	**Solid**	**ICP/MS 05**	**12/10/18**	**12/11/18 20:05**	**181210L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-12-0144-1	**Sample**	**Solid**	**ICP/MS 05**	**12/10/18**	**12/11/18 20:48**	**181210S02**
18-12-0144-1	**Matrix Spike**	**Solid**	**ICP/MS 05**	**12/10/18**	**12/11/18 20:16**	**181210S02**
18-12-0144-1	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**12/10/18**	**12/11/18 20:19**	**181210S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	1.333	25.00	28.94	110	27.79	106	72-132	4	0-13	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
18-12-0144-1	**Sample**	**Solid**	**ICP/MS 05**	**12/10/18 00:00**	**12/11/18 20:48**	**181210S02**
18-12-0144-1	**PDS**	**Solid**	**ICP/MS 05**	**12/10/18 00:00**	**12/11/18 20:23**	**181210S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	1.333	25.00	30.32	116	75-125	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1814
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: LAUSD Taft HS / 9836003557			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-621-1789	**LCS**	**Solid**	**ICP/MS 05**	**12/10/18**	**12/11/18 20:27**	**181210L02**
099-15-621-1789	**LCSD**	**Solid**	**ICP/MS 05**	**12/10/18**	**12/11/18 20:30**	**181210L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	25.00	26.89	108	26.43	106	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 18-11-1814

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6020	EPA 3050B	598	ICP/MS 05	1
EPA 8015B (M)	EPA 3550B	1028	GC 48	1

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Glossary of Terms and Qualifiers

Work Order: 18-11-1814 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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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Friday, December 07, 2018 10:07 AM
To: Stephen Nowak
Cc: Lutmer, Christine
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

EXTERNAL EMAIL*

Hi Steve,

I'd like to request STLC analysis for lead for the following samples:

B61A-0.5
B61B-0.5
B61C-0.5

Thanks!

Sincerely,
Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, December 04, 2018 4:06 PM
To: Salgado, Desi
Cc: Lutmer, Christine
Subject: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

Report, EDD, and Invoice are attached.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience		
Project Name / Number	LAUSD Taft HS	9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills	
Project Manager:	D. Salgado	
Sampled by:	P. Skeath	
Phone:	(310) 409-9980	
Email:	Desi. Salgado@efiglobal.com	

18-11-1814

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6020B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCP, EPA 8081A	Method:	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B68-0.5	1	X			X							11/19/18	1240				X	X				X				X					X			
2	B68-2	2												1245												X									
3	B69-0.5	3												1250				X	X				X												
4	B69-2	4												1255												X									
5	B70-0.5	5											11/20/18	0900				X	X				X												
6	B70-2	6												0905												X									
7	B71-0.5	7												0910				X	X				X												
8	B71-2	8												0915												X									
9	B72-0.5	9												0920				X	X				X												
10	B72-2	10												0925												X									
11	B73-0.5	11											11/19/18	1240				X	X				X												
12	B73-2	12												1245												X									
13	B74-0.5	13												1300				X	X				X												
14	B74-2	14												1305												X									
15	B75-0.5	15												1330				X	X				X												
16	B75-2	16												1335												X									
17	B76-0.5	17											11/20/18	0940				X	X				X												
18	B76-2	18												0945												X									
19	B77-0.5	19												0930				X	X				X												
20	B77-2	20												0935												X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
P. Skeath	11/21/18	1426	Rudy Cc	11/21/18	1426	Sample condition (circle): Chilled Intact
Rudy	11/21/18	1710		11/21/18	1710	Excavation Area:

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Engineering, Fire & Environmental Services

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5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience	
Project Name / Number	LAUSD Taft HS 9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills
Project Manager:	D. Salgado
Sampled by:	P. Skeath
Phone:	(310) 409-9980
Email:	Desi. Salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs 8081A	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B78-0.5	21	X			X							11/19/18	1230				X	X				X			X					X			
2	B78-2	22												1235											X									
3	B79-0.5	23												1310				X	X				X											
4	B79-2	24												1315											X									
5	B80-0.5	25												1320				X	X				X		X									
6	B80-2	26												1325											X									
7	B81-0.5	27											11/20/18	0950				X	X				X											
8	B81-2	28												0955											X									
9	B82-0.5	29												1000				X	X				X											
10	B82-2	30												1005											X									
11	B83-0.5	31											11/19/18	1015				X	X				X											
12	B83-1.5	32												1020											X									
13	B83-3	33												1025											X									
14	B84-0.5	34												1000				X	X				X											
15	B84-1.5	35												1005											X									
16	B84-3	36												1010											X									
17	B85-0.5	37												0945				X	X				X											
18	B85-1.5	38												0950											X									
19	B85-3	39												0955											X									
20	B86-0.5	40												0930				X	X				X											

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	[illegible]	11/21/18	1426
Rudy [illegible]	11/21/18	1710	[illegible]	11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience	
Project Name / Number	LAUSD Taft HS 9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills
Project Manager:	D. Salgado
Sampled by:	P. Skeath
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Email:	Desi. Salgado@efiglobal.com

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1	B86-1.5	41	X			X							11/19/18	0935												X	X					X			
2	B86-3	42												0940												X									
3	B87-0.5	43												0915				X	X				X												
4	B87-1.5	44												0917												X									
5	B87-3	45												0919												X									
6	B88-0.5	46												0950				X	X				X												
7	B88-1.5	47												0952												X									
8	B88-3	48												0954												X									
9	B89-0.5	49												0850				X	X				X												
10	B89-1.5	50												0852												X									
11	B89-3	51												0854												X									
12	B90-0.5	52												1030				X	X				X												
13	B90-1.5	53												1035												X									
14	B90-3	54												1040												X									
15	B91-0.5	55												1045				X	X				X												
16	B91-1.5	56												1050												X									
17	B91-3	57												1055												X									
18	B92-0.5	58												1100				X	X				X												
19	B92-1.5	59												1105												X									
20	B92-3	60												1110												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	EC	11/21/18	1426
	11/21/18	1710		11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

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TAT

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience	
Project Name / Number	LAUSD Taft HS 9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills
Project Manager:	D. Salgado
Sampled by:	P. Skeath
Phone:	(310) 409-9980
Email:	Desi. Salgado@efiglobal.com

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1	B93-0.5	61	X			X							11/20/18	1115				X	X				X				X					X			
2	B93-1.5	62												1120												X									
3	B93-3	63												1125												X									
4	B94-0.5	64												1130				X	X				X												
5	B94-1.5	65												1135												X									
6	B94-3	66												1140												X									
7	B95-0.5	67											11/21/18	1025				X	X				X	X											
8	B95-1.5	68												1030												X									
9	B95-3	69												1035												X									
10	B95-6	70												1040												X									
11	B96-0.5	71												1025				X	X				X	X											
12	B96-1.5	72												1030												X									
13	B96-3	73												1035												X									
14	B96-6	74												1040												X									
15	B61A - 0.5	75											11/20/18	1040				X	X				X												
16	B61A - 1.5	76												1045												X									
17	B61A - 3	77												1050												X									
18	B61B - 0.5	78												1055				X	X				X												
19	B61B - 1.5	79												1100												X									
20	B61B - 3	80												1105												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	EC	11/21/18	1426
Rudy N	11/21/18	1710		11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_01

Analytical Laboratory: Eurofins Calscience	
Project Name / Number	LAUSD Taft HS 9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills
Project Manager:	D. Salgado
Sampled by:	P. Skeath
Phone:	(310) 409-9980
Email:	Desi. Salgado@efiglobal.com

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: OCPs	Method:	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B61C-0.5	81	X			X							11/20/18	1110				X	X				X				X					X			
2	B61C-1.5	82												1115												X									
3	B61C-3	83												1120												X									
4	B52A-0.5	84											11/21/18	0900				X	X				X												
5	B52A-1.5	85												0905												X									
6	B52A-3	86												0910												X									
7	B52B-0.5	87												0915				X	X				X												
8	B52B-1.5	88												0920												X									
9	B52B-3	89												0925												X									
10	B52C-0.5	90												0930				X	X				X												
11	B52C-1.5	91												0935												X									
12	B52C-3	92												0940												X									
13	B52B-1.5 DUP	93											11/21/18	0920												X									
14	B61B-0.5 DUP	94											11/20/18	1055				X	X				X												
15	B73-0.5 DUP	95											11/19/18	1240				X	X				X												
16	B77-2 DUP	96											11/20/18	0935												X									
17	B80-0.5 DUP	97											11/19/18	1320				X	X				X			X									
18	B83-1.5 DUP	98												1020												X									
19	B86-0.5 DUP	99												0930				X	X				X												
20	B96-1.5 DUP	100											11/21/18	1030												X									

Relinquished by	Date	Time	Received by	Date	Time
P. Skeath	11/21/18	1426	Rudy N	11/21/18	1426
Rudy N	11/21/18	1710	[illegible]	11/21/18	1710

Remarks

Sample condition (circle): Chilled Intact

Excavation Area:

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WORK ORDER NUMBER: 18-11-1814

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: EFI

DATE: 11/21/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: 0.0°C); Temperature (w/o CF): 2.9 °C (w/ CF): 2.9 °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: VRM

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: VRM

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1163

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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 ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____

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, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1163

Reviewed by: UDL

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WORK ORDER NUMBER: 18-11-

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: EFT

DATE: 11/21/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: 0.0°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.7 °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: VRM

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: VRM

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1163

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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 ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna (pH__9)
☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB
☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____
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, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1163

Reviewed by: UDR

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WORK ORDER NUMBER: 18-11- 1814

SAMPLE ANOMALY REPORT

DATE: 11 / 21 / 2018

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)
- ☐ pH outside acceptable range (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

(-101) received 1 - 8oz. clear glass jar labeled as: B92-3-DUP, 11/19/18 @ 11:10 not on COC.

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: 1163

Reviewed by: UDZ

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Monday, November 26, 2018 9:22 AM
To: Stephen Nowak
Subject: RE: LAUSD Taft HS / 9836003557

EXTERNAL EMAIL*

Steve,

Please add it to the COC and place the sample on hold. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Monday, November 26, 2018 9:20 AM
To: Salgado, Desi
Subject: LAUSD Taft HS / 9836003557

Desi- See attached COC and sample anomaly form (Page 8).

Extra sample rec'd not listed on the COC- B92-3_DUP 11/19/18 @ 11:10.
Let me know if we are to do anything with this sample.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Env

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Stephen Nowak

From: Salgado, Desi <Desi.Salgado@EFIGLOBAL.com>
Sent: Friday, December 07, 2018 2:00 PM
To: Stephen Nowak
Cc: Hoaibao Nguyen
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

EXTERNAL EMAIL*

Please proceed. Thank you!

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Friday, December 07, 2018 1:59 PM
To: Salgado, Desi
Cc: Hoaibao Nguyen
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

Please also run B52C-1.5 for arsenic by 6020. OK- added.

Also, is there enough sample left to run TPHcc on B95-0.5 and B96-0.5? –YES, let me know if you want to add.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.eurofinsUS.com/Env

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From: Salgado, Desi [mailto:Desi.Salgado@EFIGLOBAL.com]
Sent: Friday, December 07, 2018 1:30 PM
To: Stephen Nowak
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

EXTERNAL EMAIL*

Steve,

Please also run B52C-1.5 for arsenic by 6020. Also, is there enough sample left to run TPHcc on B95-0.5 and B96-0.5? Please advise. Thanks!

Sincerely,

Desi Salgado | Project Manager
EFI Global, Inc.
Los Angeles, CA
DIRECT 310.854.6300 | FAX 310.854.0199
CELL 310.409.9980| EMAIL Desi.Salgado@efiglobal.com
CSLB License #: 885902 – A, B, HAZ, ASB
www.efiglobal.com | Caring counts®

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Friday, December 07, 2018 11:56 AM
To: Salgado, Desi
Subject: RE: LAUSD Taft HS / 9836003557 / ECI 18-11-1814

OK- will do.

Stephen Nowak
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com

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WORK ORDER NUMBER: 18-11-1815

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EFI Global Inc.

Client Project Name: LAUSD Taft HS / 9836003557

Attention: Desi Salgado
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 12/04/2018 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-11-1815

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Work Order Narrative

Work Order: 18-11-1815 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/21/18. They were assigned to Work Order 18-11-1815.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	EFI Global Inc. 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	18-11-1815
		Project Name:	LAUSD Taft HS / 9836003557
		PO Number:	
		Date/Time Received:	11/21/18 17:10
		Number of Containers:	2
Attn:	Desi Salgado		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
D1-S	18-11-1815-1	11/21/18 11:05	1	Solid
D2-S	18-11-1815-2	11/21/18 11:10	1	Solid

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Detections Summary

Client:	EFI Global Inc.	Work Order:	18-11-1815
	5261 West Imperial Highway	Project Name:	LAUSD Taft HS / 9836003557
	Los Angeles, CA 90045-6231	Received:	11/21/18
Attn:	Desi Salgado		Page 1 of 1

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
D1-S (18-11-1815-1)						
Arsenic	10.9		0.746	mg/kg	EPA 6010B	EPA 3050B
Barium	143		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.613		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.972		0.498	mg/kg	EPA 6010B	EPA 3050B
Chromium	21.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.29		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	30.0		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	6.85		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.92		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.3		0.249	mg/kg	EPA 6010B	EPA 3050B
Selenium	1.57		0.746	mg/kg	EPA 6010B	EPA 3050B
Vanadium	28.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	80.4		0.995	mg/kg	EPA 6010B	EPA 3050B
C33-C36	6.1		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C41-C44	6.8		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
D2-S (18-11-1815-2)						
Arsenic	10.7		0.761	mg/kg	EPA 6010B	EPA 3050B
Barium	158		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.637		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.24		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	19.2		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.35		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	27.5		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	12.3		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.29		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	27.2		0.254	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.4		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	149		1.02	mg/kg	EPA 6010B	EPA 3050B
C23-C24	15		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C28	11		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C29-C32	22		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C33-C36	20		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C37-C40	9.6		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C41-C44	8.3		4.9	mg/kg	EPA 8015B (M)	EPA 3550B

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D1-S	**18-11-1815-1-A**	**11/21/18 11:05**	**Solid**	**GC 48**	**11/28/18**	**11/28/18 23:15**	**181128B02A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	6.1	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	6.8	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	88	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D2-S	**18-11-1815-2-A**	**11/21/18 11:10**	**Solid**	**GC 48**	**11/28/18**	**11/28/18 23:37**	**181128B02A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	15	4.9	1.00	
C25-C28	11	4.9	1.00	
C29-C32	22	4.9	1.00	
C33-C36	20	4.9	1.00	
C37-C40	9.6	4.9	1.00	
C41-C44	8.3	4.9	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	83	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			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	**099-15-490-3417**	**N/A**	**Solid**	**GC 48**	**11/28/18**	**11/28/18 19:07**	**181128B02A**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	85	61-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D1-S	**18-11-1815-1-A**	**11/21/18 11:05**	**Solid**	**ICP 8300**	**11/27/18**	**11/27/18 23:15**	**181127L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.746	0.995	
Arsenic	10.9	0.746	0.995	
Barium	143	0.498	0.995	
Beryllium	0.613	0.249	0.995	
Cadmium	0.972	0.498	0.995	
Chromium	21.4	0.249	0.995	
Cobalt	7.29	0.249	0.995	
Copper	30.0	0.498	0.995	
Lead	6.85	0.498	0.995	
Molybdenum	4.92	0.249	0.995	
Nickel	30.3	0.249	0.995	
Selenium	1.57	0.746	0.995	
Silver	ND	0.249	0.995	
Thallium	ND	0.746	0.995	
Vanadium	28.4	0.249	0.995	
Zinc	80.4	0.995	0.995	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D2-S	**18-11-1815-2-A**	**11/21/18 11:10**	**Solid**	**ICP 8300**	**11/27/18**	**11/27/18 23:17**	**181127L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	10.7	0.761	1.02	
Barium	158	0.508	1.02	
Beryllium	0.637	0.254	1.02	
Cadmium	1.24	0.508	1.02	
Chromium	19.2	0.254	1.02	
Cobalt	8.35	0.254	1.02	
Copper	27.5	0.508	1.02	
Lead	12.3	0.508	1.02	
Molybdenum	3.29	0.254	1.02	
Nickel	27.2	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	32.4	0.254	1.02	
Zinc	149	1.02	1.02	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			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	**097-01-002-27321**	**N/A**	**Solid**	**ICP 8300**	**11/27/18**	**11/27/18 22:28**	**181127L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	ND	0.739	0.985	
Barium	ND	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	ND	0.246	0.985	
Cobalt	ND	0.246	0.985	
Copper	ND	0.493	0.985	
Lead	ND	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	ND	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	ND	0.246	0.985	
Zinc	ND	0.985	0.985	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D1-S	**18-11-1815-1-A**	**11/21/18 11:05**	**Solid**	**Mercury 08**	**11/28/18**	**11/28/18 15:57**	**181128L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D2-S	**18-11-1815-2-A**	**11/21/18 11:10**	**Solid**	**Mercury 08**	**11/28/18**	**11/28/18 16:03**	**181128L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4304**	**N/A**	**Solid**	**Mercury 08**	**11/28/18**	**11/28/18 15:15**	**181128L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D1-S	**18-11-1815-1-A**	**11/21/18 11:05**	**Solid**	**GC/MS BB**	**11/21/18**	**11/21/18 23:50**	**181121L012**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
1,1-Dichloropropene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	25	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,2-Dichloroethane	ND	2.5	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	
2-Butanone	ND	50	1.00	
2-Chlorotoluene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
4-Chlorotoluene	ND	5.0	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Acetone	ND	130	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
Carbon Disulfide	ND	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
Dibromochloromethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Isopropylbenzene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
Naphthalene	ND	50	1.00	
Styrene	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
Trichloroethene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
n-Butylbenzene	ND	5.0	1.00	
n-Propylbenzene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.	Date Received:	11/21/18
5261 West Imperial Highway	Work Order:	18-11-1815
Los Angeles, CA 90045-6231	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: LAUSD Taft HS / 9836003557		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	113	71-155	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D2-S	**18-11-1815-2-A**	**11/21/18 11:10**	**Solid**	**GC/MS BB**	**11/21/18**	**11/22/18 00:17**	**181121L012**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
1,1-Dichloropropene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	25	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,2-Dichloroethane	ND	2.5	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	
2-Butanone	ND	50	1.00	
2-Chlorotoluene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
4-Chlorotoluene	ND	5.0	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
Carbon Disulfide	ND	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
Dibromochloromethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Isopropylbenzene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
Naphthalene	ND	50	1.00	
Styrene	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
Trichloroethene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
n-Butylbenzene	ND	5.0	1.00	
n-Propylbenzene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	111	79-133	
1,2-Dichloroethane-d4	126	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-14864**	**N/A**	**Solid**	**GC/MS BB**	**11/21/18**	**11/21/18 16:15**	**181121L012**

Parameter	Result	RL	DF	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
1,1-Dichloropropene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	25	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,2-Dichloroethane	ND	2.5	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	
2-Butanone	ND	50	1.00	
2-Chlorotoluene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
4-Chlorotoluene	ND	5.0	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
Carbon Disulfide	ND	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
Dibromochloromethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
Isopropylbenzene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
Naphthalene	ND	50	1.00	
Styrene	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
Trichloroethene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
n-Butylbenzene	ND	5.0	1.00	
n-Propylbenzene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
1,4-Dioxane	ND	100	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: LAUSD Taft HS / 9836003557			Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	110	71-155	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: LAUSD Taft HS / 9836003557			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-11-1726-1	**Sample**	**Solid**	**ICP 8300**	**11/27/18**	**11/27/18 22:36**	**181127S03**
18-11-1726-1	**Matrix Spike**	**Solid**	**ICP 8300**	**11/27/18**	**11/27/18 22:38**	**181127S03**
18-11-1726-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**11/27/18**	**11/27/18 22:40**	**181127S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	1.538	25.00	23.16	87	22.50	84	50-115	3	0-20	
Arsenic	ND	25.00	21.78	87	22.42	90	75-125	3	0-20	
Barium	50.94	25.00	76.52	102	76.24	101	75-125	0	0-20	
Beryllium	ND	25.00	23.07	92	23.26	93	75-125	1	0-20	
Cadmium	ND	25.00	23.77	95	23.86	95	75-125	0	0-20	
Chromium	4.288	25.00	28.38	96	28.37	96	75-125	0	0-20	
Cobalt	0.5398	25.00	25.11	98	25.20	99	75-125	0	0-20	
Copper	74.74	25.00	99.70	100	99.73	100	75-125	0	0-20	
Lead	4.273	25.00	28.23	96	28.30	96	75-125	0	0-20	
Molybdenum	3.224	25.00	25.00	87	25.09	87	75-125	0	0-20	
Nickel	4.557	25.00	28.45	96	28.48	96	75-125	0	0-20	
Selenium	1.489	25.00	25.22	95	25.04	94	75-125	1	0-20	
Silver	0.5207	12.50	12.57	96	12.65	97	75-125	1	0-20	
Thallium	ND	25.00	23.07	92	23.64	95	75-125	2	0-20	
Vanadium	1.362	25.00	25.04	95	25.15	95	75-125	0	0-20	
Zinc	215.3	25.00	238.8	4X	237.5	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: LAUSD Taft HS / 9836003557			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-11-1726-1	**Sample**	**Solid**	**Mercury 08**	**11/28/18**	**11/28/18 15:20**	**181128S02**
18-11-1726-1	**Matrix Spike**	**Solid**	**Mercury 08**	**11/28/18**	**11/28/18 15:22**	**181128S02**
18-11-1726-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**11/28/18**	**11/29/18 14:41**	**181128S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.1359	0.8350	0.8853	90	0.7580	74	71-137	16	0-14	4

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: LAUSD Taft HS / 9836003557			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-11-1725-1	**Sample**	**Solid**	**GC/MS BB**	**11/21/18**	**11/21/18 17:08**	**181121S004**
18-11-1725-1	**Matrix Spike**	**Solid**	**GC/MS BB**	**11/21/18**	**11/21/18 18:28**	**181121S004**
18-11-1725-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS BB**	**11/21/18**	**11/21/18 18:55**	**181121S004**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloroethene	ND	50.00	37.62	75	45.52	91	47-143	19	0-25	
1,2-Dibromoethane	ND	50.00	43.92	88	52.28	105	64-124	17	0-20	
1,2-Dichlorobenzene	ND	50.00	39.05	78	43.43	87	35-131	11	0-25	
1,2-Dichloroethane	ND	50.00	43.86	88	51.57	103	80-120	16	0-20	
Benzene	ND	50.00	35.44	71	42.12	84	61-127	17	0-20	
Carbon Tetrachloride	ND	50.00	40.52	81	48.63	97	51-135	18	0-29	
Chlorobenzene	ND	50.00	36.41	73	43.43	87	57-123	18	0-20	
Ethylbenzene	ND	50.00	36.52	73	43.51	87	57-129	17	0-22	
Toluene	ND	50.00	36.12	72	42.85	86	63-123	17	0-20	
Trichloroethene	ND	50.00	40.35	81	45.98	92	44-158	13	0-20	
Vinyl Chloride	ND	50.00	44.22	88	52.82	106	49-139	18	0-47	
o-Xylene	ND	50.00	38.28	77	46.07	92	70-130	18	0-30	
p/m-Xylene	ND	100.0	76.10	76	92.11	92	70-130	19	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	34.45	69	41.12	82	57-123	18	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	209.4	84	241.9	97	30-168	14	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	38.46	77	46.09	92	57-129	18	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	33.99	68	41.24	82	55-127	19	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	38.92	78	46.45	93	58-124	18	0-20	
Ethanol	ND	500.0	404.7	81	470.6	94	17-167	15	0-47	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: LAUSD Taft HS / 9836003557			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27321	**LCS**	**Solid**	**ICP 8300**	**11/27/18**	**11/27/18 22:31**	**181127L03**
097-01-002-27321	**LCSD**	**Solid**	**ICP 8300**	**11/27/18**	**11/27/18 22:33**	**181127L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	22.39	90	22.14	89	80-120	73-127	1	0-20	
Arsenic	25.00	21.24	85	20.88	84	80-120	73-127	2	0-20	
Barium	25.00	26.52	106	26.17	105	80-120	73-127	1	0-20	
Beryllium	25.00	23.73	95	23.29	93	80-120	73-127	2	0-20	
Cadmium	25.00	25.59	102	25.16	101	80-120	73-127	2	0-20	
Chromium	25.00	25.49	102	25.10	100	80-120	73-127	2	0-20	
Cobalt	25.00	27.67	111	27.19	109	80-120	73-127	2	0-20	
Copper	25.00	25.95	104	25.69	103	80-120	73-127	1	0-20	
Lead	25.00	27.04	108	26.67	107	80-120	73-127	1	0-20	
Molybdenum	25.00	23.09	92	23.00	92	80-120	73-127	0	0-20	
Nickel	25.00	26.96	108	26.61	106	80-120	73-127	1	0-20	
Selenium	25.00	23.91	96	23.95	96	80-120	73-127	0	0-20	
Silver	12.50	11.36	91	11.23	90	80-120	73-127	1	0-20	
Thallium	25.00	26.47	106	26.30	105	80-120	73-127	1	0-20	
Vanadium	25.00	24.64	99	24.17	97	80-120	73-127	2	0-20	
Zinc	25.00	24.81	99	24.44	98	80-120	73-127	2	0-20	

Total number of LCS compounds: 16
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

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: LAUSD Taft HS / 9836003557			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4304	**LCS**	**Solid**	**Mercury 08**	**11/28/18**	**11/28/18 15:18**	**181128L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8298	99	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EFI Global Inc.		Date Received:	11/21/18
5261 West Imperial Highway		Work Order:	18-11-1815
Los Angeles, CA 90045-6231		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: LAUSD Taft HS / 9836003557			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-14864	**LCS**	**Solid**	**GC/MS BB**	**11/21/18**	**11/21/18 15:21**	**181121L012**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
1,1-Dichloroethene	50.00	43.41	87	68-128	58-138	
1,2-Dibromoethane	50.00	44.10	88	80-120	73-127	
1,2-Dichlorobenzene	50.00	40.93	82	80-120	73-127	
1,2-Dichloroethane	50.00	45.28	91	80-120	73-127	
Benzene	50.00	39.96	80	80-120	73-127	
Carbon Tetrachloride	50.00	45.81	92	65-137	53-149	
Chlorobenzene	50.00	40.79	82	80-120	73-127	
Ethylbenzene	50.00	41.50	83	80-120	73-127	
Toluene	50.00	40.63	81	80-120	73-127	
Trichloroethene	50.00	42.33	85	80-120	73-127	
Vinyl Chloride	50.00	46.46	93	67-127	57-137	
o-Xylene	50.00	43.51	87	75-125	67-133	
p/m-Xylene	100.0	87.07	87	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	35.12	70	70-124	61-133	
Tert-Butyl Alcohol (TBA)	250.0	211.2	84	73-121	65-129	
Diisopropyl Ether (DIPE)	50.00	41.85	84	69-129	59-139	
Ethyl-t-Butyl Ether (ETBE)	50.00	36.64	73	70-124	61-133	
Tert-Amyl-Methyl Ether (TAME)	50.00	41.06	82	74-122	66-130	
Ethanol	500.0	402.6	81	51-135	37-149	

Total number of LCS compounds: 19
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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Sample Analysis Summary Report

Work Order: 18-11-1815

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 3550B	972	GC 48	1
EPA 8260B	EPA 5030C	1120	GC/MS BB	2

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Glossary of Terms and Qualifiers

Work Order: 18-11-1815 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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EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

EFI_03

Analytical Laboratory: Eurofins Calscience		
Project Name / Number	LAUSD Taft HS	9836003557
Project Address:	5461 Winnetka Ave, Woodland Hills	
Project Manager:	D. Salgado	
Sampled by:	P. Skeath	
Phone:	(310) 409-9980	
Email:	Desi. Salgado@efiglobal.com	

18-11-1815

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: TPH carbon chain, EPA Method 8015M	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method:	Method:	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Plastic Bag	Container: VOAs (by EPA 5035)	Container:	Container:	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	D1-S	1 (4)	X	X		X							11/21/18	1105	X	X	X										X					X			
2	D2-S	2 (6)	X	X		X							11/21/18	1110	X	X	X										X					X			
3																																			
4																																			
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Relinquished by	Date	Time	Received by	Date	Time	Remarks
P. Skeath	11/21/18	1426	EC	11/21/18	1426	Sample condition (circle): Chilled Intact
Randy W	11/21/18	1710	[illegible]	11/21/18	1710	Excavation Area:

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WORK ORDER NUMBER: 18-11-1815

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: EFI

DATE: 11/21/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: 0.0°C); Temperature (w/o CF): 3.1 °C (w/ CF): 3.1 °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: VRM

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: VRM

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: MOC

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			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
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 ☐ VOAh ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☐ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

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, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: MOC

Reviewed by: UDL

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APPENDIX C

INVESTIGATEVE-DERIVED WASTE MANIFEST

DRAFT

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	Not Required	1	888-423-6060	122018-6051

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District
333 South Beaudry Ave., Suite 28th Floor
Los Angeles CA 90017
Generator's Phone: 213 241-1000

Generator's Site Address (if different than mailing address)
William Howard Taft Charter High School
5461 Winnetka Avenue
Woodland Hills CA 91364

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach CA 90813
Facility's Phone: 562 432-5445
U.S. EPA ID Number: CAD028409019

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Hazardous Waste, Solid (Soil)	2	DM	300	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Always wear appropriate PPE when handling waste. Weights or volumes are approximate.
9.1) Profile #:110592 Project #38020-17-6

D166955

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Andrew Modyna FOR LAUSD OPS
Signature: [signature]
Month 12 Day 26 Year 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JOE PEREZ
Signature: [signature]
Month 12 Day 26 Year 18

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

H141

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Tony Pham
Signature: Tony Pham
Month 12 Day 27 Year 18

APPENDIX D

PROUCL RESULTS

DRAFT

	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 5.11/31/2019 8:13:17 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	0-0.5											
12												
13	General Statistics											
14	Total Number of Observations					118	Number of Distinct Observations					106
15							Number of Missing Observations					0
16	Minimum					1.49	Mean					7.934
17	Maximum					21.4	Median					7.7
18	SD					3.492	Std. Error of Mean					0.321
19	Coefficient of Variation					0.44	Skewness					1.24
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.921	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value					9.3286E-8	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.123	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.0819	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					8.467	95% Adjusted-CLT UCL (Chen-1995)					8.502
31							95% Modified-t UCL (Johnson-1978)					8.473
32												
33	Gamma GOF Test											
34	A-D Test Statistic					0.5	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.754	Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.0764	Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value					0.0849	Detected data appear Gamma Distributed at 5% Significance Level					
38	Detected data appear Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					5.487	k star (bias corrected MLE)					5.353
42	Theta hat (MLE)					1.446	Theta star (bias corrected MLE)					1.482
43	nu hat (MLE)					1295	nu star (bias corrected)					1263
44	MLE Mean (bias corrected)					7.934	MLE Sd (bias corrected)					3.429
45							Approximate Chi Square Value (0.05)					1182
46	Adjusted Level of Significance					0.048	Adjusted Chi Square Value					1181
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50)					8.481	95% Adjusted Gamma UCL (use when n<50)					8.488
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.974	Shapiro Wilk Lognormal GOF Test					

	A	B	C	D	E	F	G	H	I	J	K	L
53					5% Shapiro Wilk P Value	0.198	Data appear Lognormal at 5% Significance Level					
54					Lilliefors Test Statistic	0.0718	**Lilliefors Lognormal GOF Test**					
55					5% Lilliefors Critical Value	0.0819	Data appear Lognormal at 5% Significance Level					
56	**Data appear Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59					Minimum of Logged Data	0.399				Mean of logged Data		1.977
60					Maximum of Logged Data	3.063				SD of logged Data		0.448
61												
62	**Assuming Lognormal Distribution**											
63					95% H-UCL	8.605				90% Chebyshev (MVUE) UCL		9.009
64					95% Chebyshev (MVUE) UCL	9.476				97.5% Chebyshev (MVUE) UCL		10.12
65					99% Chebyshev (MVUE) UCL	11.4						
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	8.463				95% Jackknife UCL		8.467
72					95% Standard Bootstrap UCL	8.473				95% Bootstrap-t UCL		8.506
73					95% Hall's Bootstrap UCL	8.516				95% Percentile Bootstrap UCL		8.463
74					95% BCA Bootstrap UCL	8.458						
75					90% Chebyshev(Mean, Sd) UCL	8.898				95% Chebyshev(Mean, Sd) UCL		9.335
76					97.5% Chebyshev(Mean, Sd) UCL	9.942				99% Chebyshev(Mean, Sd) UCL		11.13
77												
78	**Suggested UCL to Use**											
79					95% Approximate Gamma UCL	8.481						
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 5.11/31/2019 8:13:22 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	1-1.5											
12												
13	General Statistics											
14	Total Number of Observations					9	Number of Distinct Observations					9
15							Number of Missing Observations					0
16	Minimum					5.79	Mean					9.65
17	Maximum					17	Median					10.7
18	SD					3.782	Std. Error of Mean					1.261
19	Coefficient of Variation					0.392	Skewness					0.74
20												
21	Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use											
22	guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.											
23	For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).											
24	Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.1											
25												
26	Normal GOF Test											
27	Shapiro Wilk Test Statistic					0.878	Shapiro Wilk GOF Test					
28	5% Shapiro Wilk Critical Value					0.829	Data appear Normal at 5% Significance Level					
29	Lilliefors Test Statistic					0.223	Lilliefors GOF Test					
30	5% Lilliefors Critical Value					0.274	Data appear Normal at 5% Significance Level					
31	Data appear Normal at 5% Significance Level											
32												
33	Assuming Normal Distribution											
34	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
35	95% Student's-t UCL					11.99	95% Adjusted-CLT UCL (Chen-1995)					12.06
36							95% Modified-t UCL (Johnson-1978)					12.05
37												
38	Gamma GOF Test											
39	A-D Test Statistic					0.543	Anderson-Darling Gamma GOF Test					
40	5% A-D Critical Value					0.722	Detected data appear Gamma Distributed at 5% Significance Level					
41	K-S Test Statistic					0.235	Kolmogorov-Smirnov Gamma GOF Test					
42	5% K-S Critical Value					0.28	Detected data appear Gamma Distributed at 5% Significance Level					
43	Detected data appear Gamma Distributed at 5% Significance Level											
44												
45	Gamma Statistics											
46	k hat (MLE)					7.644	k star (bias corrected MLE)					5.17
47	Theta hat (MLE)					1.262	Theta star (bias corrected MLE)					1.867
48	nu hat (MLE)					137.6	nu star (bias corrected)					93.06
49	MLE Mean (bias corrected)					9.65	MLE Sd (bias corrected)					4.244
50							Approximate Chi Square Value (0.05)					71.81
51	Adjusted Level of Significance					0.0231	Adjusted Chi Square Value					67.89
52												

	A	B	C	D	E	F	G	H	I	J	K	L
53	**Assuming Gamma Distribution**											
54	95% Approximate Gamma UCL (use when n>=50))					12.51	95% Adjusted Gamma UCL (use when n<50)					13.23
55												
56	**Lognormal GOF Test**											
57	Shapiro Wilk Test Statistic					0.887	**Shapiro Wilk Lognormal GOF Test**					
58	5% Shapiro Wilk Critical Value					0.829	Data appear Lognormal at 5% Significance Level					
59	Lilliefors Test Statistic					0.225	**Lilliefors Lognormal GOF Test**					
60	5% Lilliefors Critical Value					0.274	Data appear Lognormal at 5% Significance Level					
61	**Data appear Lognormal at 5% Significance Level**											
62												
63	**Lognormal Statistics**											
64	Minimum of Logged Data					1.756	Mean of logged Data					2.2
65	Maximum of Logged Data					2.833	SD of logged Data					0.387
66												
67	**Assuming Lognormal Distribution**											
68	95% H-UCL					12.99	90% Chebyshev (MVUE) UCL					13.41
69	95% Chebyshev (MVUE) UCL					15.11	97.5% Chebyshev (MVUE) UCL					17.48
70	99% Chebyshev (MVUE) UCL					22.13						
71												
72	**Nonparametric Distribution Free UCL Statistics**											
73	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
74												
75	**Nonparametric Distribution Free UCLs**											
76	95% CLT UCL					11.72	95% Jackknife UCL					11.99
77	95% Standard Bootstrap UCL					11.6	95% Bootstrap-t UCL					12.42
78	95% Hall's Bootstrap UCL					12.1	95% Percentile Bootstrap UCL					11.57
79	95% BCA Bootstrap UCL					11.95						
80	90% Chebyshev(Mean, Sd) UCL					13.43	95% Chebyshev(Mean, Sd) UCL					15.15
81	97.5% Chebyshev(Mean, Sd) UCL					17.52	99% Chebyshev(Mean, Sd) UCL					22.19
82												
83	**Suggested UCL to Use**											
84	95% Student's-t UCL					11.99						
85												
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
87	Recommendations are based upon data size, data distribution, and skewness.											
88	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
89	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
90												

	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 5.11/31/2019 8:13:26 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	2.5-3											
12												
13	General Statistics											
14	Total Number of Observations					6	Number of Distinct Observations					6
15							Number of Missing Observations					0
16	Minimum					4.33	Mean					8.022
17	Maximum					13.5	Median					7.165
18	SD					3.197	Std. Error of Mean					1.305
19	Coefficient of Variation					0.399	Skewness					1.015
20												
21	Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use											
22	guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.											
23	For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).											
24	Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.1											
25												
26	Normal GOF Test											
27	Shapiro Wilk Test Statistic					0.936	Shapiro Wilk GOF Test					
28	5% Shapiro Wilk Critical Value					0.788	Data appear Normal at 5% Significance Level					
29	Lilliefors Test Statistic					0.202	Lilliefors GOF Test					
30	5% Lilliefors Critical Value					0.325	Data appear Normal at 5% Significance Level					
31	Data appear Normal at 5% Significance Level											
32												
33	Assuming Normal Distribution											
34	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
35	95% Student's-t UCL					10.65	95% Adjusted-CLT UCL (Chen-1995)					10.75
36							95% Modified-t UCL (Johnson-1978)					10.74
37												
38	Gamma GOF Test											
39	A-D Test Statistic					0.214	Anderson-Darling Gamma GOF Test					
40	5% A-D Critical Value					0.698	Detected data appear Gamma Distributed at 5% Significance Level					
41	K-S Test Statistic					0.163	Kolmogorov-Smirnov Gamma GOF Test					
42	5% K-S Critical Value					0.333	Detected data appear Gamma Distributed at 5% Significance Level					
43	Detected data appear Gamma Distributed at 5% Significance Level											
44												
45	Gamma Statistics											
46	k hat (MLE)					8.05	k star (bias corrected MLE)					4.136
47	Theta hat (MLE)					0.996	Theta star (bias corrected MLE)					1.939
48	nu hat (MLE)					96.6	nu star (bias corrected)					49.63
49	MLE Mean (bias corrected)					8.022	MLE Sd (bias corrected)					3.944
50							Approximate Chi Square Value (0.05)					34.46
51	Adjusted Level of Significance					0.0122	Adjusted Chi Square Value					29.96
52												

	A	B	C	D	E	F	G	H	I	J	K	L
53	**Assuming Gamma Distribution**											
54	95% Approximate Gamma UCL (use when n>=50))					11.55	95% Adjusted Gamma UCL (use when n<50)					13.29
55												
56	**Lognormal GOF Test**											
57	Shapiro Wilk Test Statistic					0.985	**Shapiro Wilk Lognormal GOF Test**					
58	5% Shapiro Wilk Critical Value					0.788	Data appear Lognormal at 5% Significance Level					
59	Lilliefors Test Statistic					0.164	**Lilliefors Lognormal GOF Test**					
60	5% Lilliefors Critical Value					0.325	Data appear Lognormal at 5% Significance Level					
61	**Data appear Lognormal at 5% Significance Level**											
62												
63	**Lognormal Statistics**											
64	Minimum of Logged Data					1.466	Mean of logged Data					2.019
65	Maximum of Logged Data					2.603	SD of logged Data					0.388
66												
67	**Assuming Lognormal Distribution**											
68	95% H-UCL					12.3	90% Chebyshev (MVUE) UCL					11.82
69	95% Chebyshev (MVUE) UCL					13.55	97.5% Chebyshev (MVUE) UCL					15.95
70	99% Chebyshev (MVUE) UCL					20.65						
71												
72	**Nonparametric Distribution Free UCL Statistics**											
73	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
74												
75	**Nonparametric Distribution Free UCLs**											
76	95% CLT UCL					10.17	95% Jackknife UCL					10.65
77	95% Standard Bootstrap UCL					9.982	95% Bootstrap-t UCL					12.09
78	95% Hall's Bootstrap UCL					25.1	95% Percentile Bootstrap UCL					10.1
79	95% BCA Bootstrap UCL					10.17						
80	90% Chebyshev(Mean, Sd) UCL					11.94	95% Chebyshev(Mean, Sd) UCL					13.71
81	97.5% Chebyshev(Mean, Sd) UCL					16.17	99% Chebyshev(Mean, Sd) UCL					21.01
82												
83	**Suggested UCL to Use**											
84	95% Student's-t UCL					10.65						
85												
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
87	Recommendations are based upon data size, data distribution, and skewness.											
88	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
89	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
90												

	A	B	C
1	0-0.5	1-1.5	2.5-3
2	1.49	6.32	6.35
3	1.64	5.89	9.62
4	2.68	10.7	13.5
5	3	17	4.33
6	3.17	5.79	7.74
7	3.27	11.3	6.59
8	3.83	12.2	
9	3.95	6.75	
10	4.08	10.9	
11	4.09		
12	4.19		
13	4.23		
14	4.42		
15	4.43		
16	4.44		
17	4.46		
18	4.54		
19	4.62		
20	4.92		
21	4.94		
22	4.97		
23	4.98		
24	5.02		
25	5.05		
26	5.24		
27	5.3		
28	5.42		
29	5.42		
30	5.43		
31	5.53		
32	5.58		
33	5.64		
34	5.72		
35	5.75		
36	5.78		
37	5.79		
38	5.84		
39	5.85		
40	5.97		
41	6.04		
42	6.08		
43	6.19		
44	6.28		
45	6.32		
46	6.32		
47	6.49		
48	6.62		
49	6.83		
50	6.86		
51	6.89		
52	6.98		

	A	B	C
53	7.03		
54	7.13		
55	7.24		
56	7.34		
57	7.49		
58	7.61		
59	7.63		
60	7.64		
61	7.76		
62	7.78		
63	7.88		
64	7.91		
65	7.92		
66	7.92		
67	7.98		
68	8.06		
69	8.19		
70	8.22		
71	8.22		
72	8.23		
73	8.33		
74	8.34		
75	8.34		
76	8.34		
77	8.49		
78	8.53		
79	8.62		
80	8.64		
81	8.73		
82	8.89		
83	8.95		
84	8.98		
85	8.98		
86	8.99		
87	9.06		
88	9.17		
89	9.2		
90	9.24		
91	9.28		
92	9.34		
93	9.34		
94	9.91		
95	9.96		
96	9.99		
97	10.1		
98	10.1		
99	10.1		
100	10.4		
101	10.7		
102	11.1		
103	11.3		
104	11.5		

	A	B	C
105	11.8		
106	11.9		
107	12.1		
108	12.4		
109	12.6		
110	12.6		
111	12.7		
112	14.1		
113	14.1		
114	14.9		
115	16.5		
116	17		
117	17.4		
118	20		
119	21.4		